<i>Cl</i> 33 <i>SC</i> 33.1.4.1 Darshan, Yair	P 199 Microsemi	L 14	# 1		<i>Cl</i> 33 Darshan, Yair	SC 33.2.7	P 240 Microsemi	L 42	# 3
Comment Type ER	Comment Status A			Cabling	Comment Typ	be E	Comment Status A		PSE Powe
Missing Type 4 in: Type 2 and Type 3 oper SuggestedRemedy	ation requires a 10 °C reduct	ion in the maxi	mum:	Ū	1. It is 33. 2. The ad	.2.7.4.1 and n Iditional inform	nation do not cover all the info	rmation needed	l for item 4a. It is
To:	ation requires a 10 °C reduct				SuggestedRe Table 33-	11 item 4a, a	dditional information. with: See 33.2.7.4 and 33.2.	7.4.1	
Response ACCEPT IN PRINCIPLI	Response Status C E.				Response ACCEPT.		Response Status C		
Type 2, Type 3, and Typ	be 4 operation requires a 10	°C reduction in	the maximum:		C/ 33	SC 33.2.7.4	P 245	L 23	# 4
C/ 33 SC 33.2.7.4	P 245	L 19	# 2		Darshan, Yair		Microsemi		
Darshan, Yair	Microsemi	- 10			Comment Typ	be E	Comment Status A		lcor
Comment Type E	Comment Status A			lcon	"In additio	on to ICon-2P	and ICon-2P-UNB as specifie	ed in Table 33–1	11, the"
	all meet ICon-2P as specified	l in Table 33-11	item 4a."		Typo: It is	Icont and no	t Icont-2P		
Typo: It is Icont-2P_unb	and not Icont-2P								
					SuggestedRe	medy			
SuggestedRemedy Change to:					Change fi "In additic To:		and ICon-2P-UNB as specifie	ed in Table 33–1	11, the"
5	II meet ICon-2P-UNB as spe	cified in Table 3	33-11 item 4a.			on to ICon and	d ICon-2P-UNB as specified ir	n Table 33–11, t	the"
Response ACCEPT IN PRINCIPLI	Response Status C				Response ACCEPT	IN PRINCIPL	Response Status C E.		

C/ 33 SC 33.2.7 Darshan, Yair	P 243 Microsemi	L 45	# 5	<i>Cl</i> 33 SC 33. Darshan, Yair	3.7.6	P 275 Microsemi	L 1622	# 7
Comment Type E C Editor Notes on Page 243 I	Comment Status A nes 44-47 and page 244	lines 1-21 to c	Pres: Yair4	Comment Type E This text applies		Comment Status A ent scenarios and for easy re	eading each scer	Pres: Fred1 nario may need to
darshan_04_0915.pdf due				start in new row.		,	0	,
SuggestedRemedy				SuggestedRemedy				
Editor Notes on Page 243 I darshan_04_0915.pdf. Response Ri ACCEPT IN PRINCIPLE. OBE by comment 42	esponse Status C	lines 1-21 to c	nange per page 5 per	requirement for C class 0 to 4 shall pairset. For class has no further re- to each pairset. F	and singl Cport as I meet the s 5 and 6 quiremer For class	le-signature Type 3 PDs with defined in Table 33.18 item e requirement for Cport as c single-signature PDs, if CP nts. For dual-signature class 7 and 8 single signature PD	9. Type 3 dual-s defined in Table 3 Port_min >=10uf, s 5 PDs, this reco Ds, if CPort_min	ignature PDs with 33.18 item 9 for each transient behavior pmmendation applies >=20uf, transient
C/ 33 SC 33.3.7.3 Darshan, Yair	P 272 Microsemi	L 8	# 6	To:		equirements. See 33.2.7.2 (
Typo in "value requirements It is 33.3.7.6. SuggestedRemedy Change 33.2.7.6 to 33.3.7.6		5"	Editorial	requirement for C Type 3 dual-sign defined in Table For class 5 and 6 further requirement For class 5 and 6 behavior has no For class 7 and 8 further requirement	Cport as ature PD 33.18 ite 6 single-s ents. 6 dual-sig further re 8 single s ents.	le-signature Type 3 PDs with defined in Table 33.18 item bs with class 0 to 4 shall mean of 9 for each pairset. signature PDs, if CPort_min > equirements. signature PDs, if CPort_min e transient conditions	9. et the requirement >=10uf, transient =10uf for each p	nt for Cport as t behavior has no airset, transient
EZ				Response ACCEPT IN PRI	,	Response Status C		

OBE by 203

<i>CI</i> 33 Darshan, Ya	SC 33.3.7.10 air	P 276 Microsemi	L 40	# 8	<i>Cl</i> 33 Darshan,	SC 33 . Yair	.2.7	P 243 Microsemi	L 45	# 10	
Comment Ty	ype ER	Comment Status A		Editorial	Comment	Type E	ER (Comment Status A			
The text See Anr		ign guide lines for meeting th	e above require	ments.	The fo "1. Ico	ollowing tex	Ipeak-2P	need to be addressed for	Extended powe	r"	
It should	d be Annex 33A	.5 and not Annex A.			Suaaeste	dRemedy					
SuggestedR	Remedy				00	ge to:					
Change					"1. Ico	ont-2P_unb	and Ipeak	k-2P need to be addresse	ed for Extended p	oower"	
See Anr To:	nex 33A for desi	ign guide lines for meeting th	e above requirei	ments.	Response	e	R	Response Status C			
	nex 33A.5 for de	esign guide lines for meeting	the above requir	ements.	ACCE	EPT IN PRI	NCIPLE.				
Response		Response Status C									
ACCEP	Т.				This i	s only an e	ditor's note	e, but			
EZ					Chan "1. Icc	0	and Ipeak	-2P need to be addresse	d for Extended p	ower"	
CI 33 Darshan, Ya	SC 33.2.5.6 air	P 232 Microsemi	L 44	# 9	EZ						
Comment Ty	ype ER	Comment Status A		Editorial	C/ 33	SC 33.	.2.8	P 251	L 47	# 11	
marked	as YD_001_PS	EP2P for Reference)			Darshan,	Yair		Microsemi			
We agre	ee last meeting	ee 33.3.5.3 and Annex 33B)" that: ex will be named Annex C and					ed in last i	Comment Status A meeting that Annex B is a	a normative anne		Editoria PSE
2. The A NORMA See re	Annex 33B was ATIVE so they ca	reserved for PSE PI P2P unb anot be combined with Anney for fixing the incorrect impler	alanced require	ments WHICH ARE	(See incorr	also YD_00 ect implem	02_PSE_P entation of	used for Autoclass. 2P that addresses other f darshan_06_0715.pdf in t/public/jul15/darshan_06	า)
					Suggeste	dRemedy					
S <i>uggestedR</i> Change	2	5.3 and Annex 33B)to (see 3	3.3.5.3 and Ann	ex 33C)	Chan	ge "See Ar		or more information on hore information on hore"	ow"		
incorrec	t implementatio	P2P that addresses other construction of darshan_06_0715.pdf in 3/bt/public/jul15/darshan_06_			Response ACCE		R	Response Status C			
Response	0	Response Status C		-	EZ						
	T IN PRINCIPLI	,									
Change	from (see 33.3	5.3 and Annex 33B) to (see 3	33 3 5 3 and An	nex 33C)							
-				10, 000)							
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 Darshan, Yair	3.3.7	P 270 Microsemi	L 24	# 12	C/ 33 Darshan,		33.2.7	P 241 Microsemi	L 34	# 14
Comment Type	T Comn	nent Status A		PD Power	Comment	t Type	т	Comment Status A		Pres: Yair
		nd 4: The parameter ass 5 and not just cla		erating power, class 5":				ILIM-2P min in Table 33-11 ite nan_06_0915.pdf.	m 9 classes 5	and 7.
SuggestedRemedy					Suggeste	dReme	edy			
From: peak operating		le 33-18 item 7 for T	ype 3 and 4:		Class	s 5: Rep	olace TBD	IM-2P minimum value column: in ILIM-2P min with 0.551A in ILIM-2P min with 0.829A		
To: peak operating	power, class 5 to	ר 8 ה			Response	e		Response Status C		
Response		nse Status C			ACCI	EPT.				
ACCEPT.	10000				C/ 33	SC	33A.6	P 331	L 21	# 15
EZ					Darshan,	Yair		Microsemi		
					Comment	t Type	т	Comment Status A		Pres: Yair
C/ 33 SC 33 Darshan, Yair Comment Type		P 240 Microsemi nent Status A	L 39	# 13 Pres: Yair4	darsh		_0715.pdf	1.2 (will be Table 33B-1 in D1.3 in http://www.ieee802.org/3/bt/		
1.To update TB 2. To update cla 71.3W to 71W.	Ds for Icont-2P_	unb min in Table 33 0.931A to 0.926A du		lasses 5 and 7.	2. To 3. To	replace add tw	e TBDs wi	er changes made in D1.1. th numbers al columns to support extended	d power mode.	
Class 5: Replac Class 7: Replac	n Table 33-11 ite e TBD with 0.53 e TBD with 0.77 e from 0.931A to	8A	minimum value	column:	PSE PSE PSE	date TE Class= Class= Class= Class=	3Ds in pag 5,Rload_n 6,Rload_n 7,Rload_n	ge 331 lines 20-26 Table 33B-1 nin=0.739,Rload_max=0.1562 nin=0.635. nin=0.577,Rload_max=1.094 nin=0.533,Rload_max=0.979	(was Table 33	A-1 in D1.2).
Response ACCEPT.	Respo	nse Status C			2. Mc	odify the	e table to i	nclude two additional columns page 3 of darshan_04_0915.p		ower mode.
AUGEF I.					Response ACCI		PRINCIPI	Response Status C LE.		
					PSE PSE PSE	Class= Class= Class=	5,Rload_n 6,Rload_n 7,Rload_n	ge 331 lines 20-26 Table 33B-1 nin=0.739,Rload_max=0.1562 nin=0.635. nin=0.577,Rload_max=1.094 nin=0.533,Rload_max=0.979	(was Table 33	A-1 in D1.2).

<i>Cl</i> 33 Darshan, Ya	SC 33.2.7.4.1 air	P 246 Microse		# [16	C/ 33 Darshan, Ya	SC 33.2.7 air	P 241 Microsemi	L 20	# 18
See deta	ate equation 33- ails in page 1 o	Comment Status A 4b to include classes 5 f darshan_04_0915.pd	and 7.	Pres: Yair4	We nee they wil	3-11 item 7. d to update K create errors	Comment Status A ficut3 and Kicut4 to include the s resulted with Icont-2P_unb dc in 07 0915.pdf.		
	ement updates p	per page 1 of darshan_ in page 246 line 37	04_0915.pdf.		SuggestedF	Remedy	an_07_0915.pdf for updating Ta	able 33-11 item 7	7.
Response ACCEP1	т.	Response Status C	:		Response ACCEP	т.	Response Status C		
	e below equatio Note: Numbe	on 33-4b: rs to be updated for DS	S PDs."		Accept 1.	changes for it	em 7, Table 33-11 shown in Da	arshan_07_0915	5_Rev004.pdf on page
C/ 33 Darshan, Ya	SC 33.2.7 air	P 241 Microse		# 17					
It reduce decision Reason In order force Icu	ate ILIM-2P min es currents by a n. for update: to reduce curre ut_max/Icon-2P	Comment Status A in Table 33-11 item 9 d about 15% due margins ents, we utilized the fac unb= about 1.15 as ir an_06_0915.pdf.	classes 6 and 8. reduction that can b t that Ppeak_PD is lo	C C					
Class 6:	3-11 item 9, ILII : Change from (M-2P minimum value c 0.817A to 0.691A. 1.162A to 0.990A.	olumn:						
Response ACCEPT	т.	Response Status C	:						

Cl 33 Darshan,	SC 33.1.4.1 Yair	P 199 Microsemi	L 5	# 19	CI 33 Darshan
Commen	t Type T	Comment Status A		Cabling	Commei
		comment #4 in D1.1 per Ma GRACASI S.A./LINEAR TEC		est #1271, on behalf of	In D "exc
Due	to the fact that par	and submit my responce. t of the requested is already ent part that adresses clasue		clause 33.1.4, I will	Suggest Cha "exc
00	edRemedy ace lines 5-12 in p	age 199 clause 33.1.4.1 fro	m:		to: "exc
		ay be transmitted over all s	pecified premise	s cabling that meets the	Respons
		. Type 2 operation requires	Class D, or bette	er, cabling as specified	ACC
IEC [·]		he additional requirement th	at channel DC lo	oop resistance shall be	EZ
Thes		e also met by Category 5e c	r better cable ar	d components as	Cl 33 Darshan
568-0		cable and components as s	pecified in ANS	/TIA/EIA-568-A. Type 3	Commei
opera		s D or better cabling as spe	cified in ISO/IEC	11801:2002. These	Per bacł
	met by Category 5	e or better cable and compo	onents as specifi	ed in ANSI/TIA-568-	Suggest
To:					1. А Туре роw
requi	rements to the cat	er the data connection is into bling that is normally installe	d for data usage	. This is approximately	durii 2. R
		me further attention. Power cified premises cabling with			Respons
level	s may require heav	vier gauge conductors than () in some lighter gauge Cla	are found in Clas	ss C/Category 3 cabling	ACC

levels may require heavier gauge conductors than are found in Class C/Category 3 cabling and (more uncommonly) in some lighter gauge Class D or better cable. The requirements for Type 2 are met by Category 5 or better cable and components as specified in ANSI/TIA/EIA-568-A."

Response

ACCEPT IN PRINCIPLE.

Many of the changes in MR 1271 have been incorporated into the draft.

Response Status C

No further changes to the draft are required.

Chair to close MR 1271.

C/ 33	SC 33	3.2.4.6	P 218	L 7	# 20
Darshan,	Yair		Microsemi		
Comment	t Type	T Co	mment Status A		Editoria
			ne Icont in the list at: , TLIM-2P, and PType	(see Table 33–1	1),".
Suggeste	dRemedy				
"exce to:			, TLIM-2P, and PType		,.
Response	Э	Res	sponse Status C	,.	
ACCI	EPT.		,		
EZ					
CI 33	SC 33	3.2.5	P 227	L 39	# 21
Darshan,	Yair		Microsemi		
Comment	t Type	T Co	mment Status A		PSE Powering
		Note we need i igle pairset.	to allow at POWER-UF	or POWER_O	N state to turn OFF and
Suggeste	dRemedy				
Type powe during	3 and Typ red up a S g POWER	Single Signatu	successfully detected v re PD, may turn off one ER_ON states.		
		_	aa		
Response	9	Res	sponse Status C		

OBE by comment 225.

C/ 33 SC 33.2.7	P 240	L 21	# 22	Cl 33	SC 33.2.7.6	P 248	L 18	# 23
Darshan, Yair				Darshan, Y		Microsemi		
Comment Type T Table 33-11 item 1a, Vpon Background: We have shown that PSE worst case and the spec w After additional research of reach to 6-8mV due to cro Two solutions were analyz a) To specify PSE Vdiff=1 out how to make sure that This solution was rejected b) To specify PSE Vdiff=1 move some burden on PE instead of 58mV as it is to	Vdiff max for a single port vere set to 2mV. on multi-port systems we h ss regulation effect of port red: mV as is today for a single in multiport operation the by few system vendors. 0mV while keeping system to use 50mV maximum w	have found that ts using shared e port and let sy spec will still bo n Vdiff=60mV a	the PSE Vdiff may I power leads. ystem designer to figure e met. us it was before which	The IC When ipeak of accura As a re thresho crossir As a re a) The determ	ing to the text: CUT-2P threshold we changed Pp current, it cause acy for setting Ic esult, for allowin old to be equal of ng Icut-2P is not esult we need to ICUT-2P thresh nined by Equation	g design flexibility and cost e or higher that Ipeak-2P due to mandatory. explicitly clarify and allow the hold may equal or greater (no	n 1.11 to 1.05 to nt-2P_unb which ffective solutions o the fact that rer e following: t just equal) the	reduce maximum required tighter we can allow Icut-2P noving power due to
This solution looks better. -It will keep the same may -It will not affect PSE MPS -It will add tolerable burde and not 58mV. - The total system E2EP2	imum pair current. Solutions. n on PD by making sure th	nat diode Vdiff i	s 50mV max	c) The d) Any <i>Suggested</i> To cha	value of Icut_21 combinations o <i>IRemedy</i> ange:	d may equal the IPeak-2P va	*Icon-2P_unb lating PSE maxi	
SuggestedRemedy 1. To change Table 33-11 2. To update all relevant F			fected by this change.	To: The IC Equation	CUT-2P threshol on (33-4). The l	d may be greater than or equ cut-2P threshold needs to be	al to the IPeak-2	P value determined by
	Response Status C			33-14. Rooponoo				
ACCEPT IN PRINCIPLE.				Response ACCEI	PT.	Response Status C		
1. To change Table 33-11	item 1a from 2mV to 10m	iV.						
All other unbalance numb	ers will be reviewed in futu	ire.		<i>Cl</i> 33 Darshan, Y	SC 33.2.7.7. ⁄air	P 249 Microsemi	L 15	# 24
				We ne	33-14. ed to capture Ty	Comment Status A /pe 1 and Type 2 requiremen in darshan_02_0915.pdf	its and Type 3 ar	Pres: Yair2 nd Type 4 requirements.
				Suggested To imp	Remedy	02 0915 pdf		
				Response	PT IN PRINCIP	Response Status C		

C/ 33 SC 33.2.7 . Darshan, Yair	7 <i>P</i> 248 Microsemi	L 33	# 25	<i>Cl</i> 33 Darshan, Yai	SC 33.2.7.5	P 247 Microsemi	L 14	# 26
Comment Type T After line 33 which is "The maximum value (33–6) and Figure 33 We need to mention to end pair to pair cu SuggestedRemedy 1. Add after the abor ILIM-2P minumum v E2EP2PRunb effect	e of ILIM-2P is the PSE upperbo 3–14." that ILIM-2P minimum in Table rrent/resistance unbalance. ve text: alue in Table 33-11 item 9 for c	33-11 item 9 in	clude the effects of end	Comment Ty, Addressi For Type to allow s and requ Event Pr 1. Measu a) all PS b) Not cla requirem SuggestedRe 1. Chang For Type to allow s To: Measure transient 2. Delete A Type 2 settling ti classifica	pe T ing the text: a 1 PSE, meass startup transie irres the 1ms s irres the 1ms s irres the 1ms s irres the 1ms s pysical Layer of uring after 1ms E Types and r ear how the re- tear how the re- enendy ge the first sen e 1 PSE, mea- startup transie ment of minim s. PSE that uses ime, shall pow ation. OR expla- b, it is not clear esponse	sec to account for transients i not just Type 1. st of the text addressing clas tence from: surement of minimum Ilnrush	1-Event Physica class 4 PD as i s true for: sification is relat o-2P requirement o be taken after ssification, and ed 2Multiple-Eve	al Layer classification, f it used 2Multiple- ted to the inrush t to be taken after 1 ms 1 ms to allow startup requires the 1ms ent Physical Layer
						THDRAWN by the commenter	er.	

C/ 33 SC 33.2.7.11a P 251 L 13 # 27	Cl 33 SC 33.3.7.3 P 271 L 41 # 29
Darshan, Yair Microsemi	Darshan, Yair Microsemi
Comment Type T Comment Status A PSE Power	Comment Type TR Comment Status A Pres: Yair
The text: Type 4 PSEs shall not source more power than PType max as specified in Table 33-11 calculated with any sliding window with a width of 1 (TBD) second.	The objective of this comment is to restore some of the text used in IEEE802.3-2012 clause 33.3.7.3 in IEEE802.3bt clause 33.3.7.3 (same location) lines 39-41. The reason for text changes in 802.3bt was the concern that PD vendors will consume power above type 1 power while PD is still in POWER-UP mode which will cause
For design flexibility we can allow 1sec window to 5sec which is much less than 60sec and get rid of the TBD	unsuccessful startup. It will be shown that the new version in 802.3bt:
SuggestedRemedy Replace TBD with 1 to 5 seconds.	 Includes incorrect description of linrush process ending point while in 2012 version the text describing the ending point is correct. The concern was already resolved in existing text in two locations
Response Response Status C	
ACCEPT IN PRINCIPLE.	The text in the PD spec in 802.3bt clause 33.3.7.3 page 271 lines 39-50 separated to 4 parts e.g. [Part A]: 33.3.7.3 Input inrush current
Change text to:	[Part A] Inrush current per pairset is drawn beginning with the application of input voltage at the pairset compliant with Vport_PD-2P requirements as defined in Table 33-18,
"Type 4 PSEs shall not source more power than PType max as specified in Table 33-11 calculated with any sliding window with a width of up to 4 seconds.	[Part B] and ending before TInrush-2P min per Table 33-11. [Part C] After TInrush-2P min, the PD shall meet PClass_PD as specified in Table 33-18.
Editor's note: Lennart to check IEC62368, part 3"	Part D] Type 2, Type 3 and Type 4 PDs with pse_power_leveltype state variable set to 2, 3
C/ 33 SC 33A.5 P 330 L 12 # 28	and 4 respectively prior to power-on shall behave like a Type 1 PD for at least Tdelay-2P min. Tdelay-2P for each pairset starts when VPD-2P crosses the PD power supply turn on
Darshan, Yair Microsemi	voltage, VOn_PD. This delay is required so that the Type 2, Type3 and Type 4 PD does
Comment Type T Comment Status A Pres: Yair8 1. The constants in Annex 33A.5 needs to be replaced with numbers.	not enter a high power state before the PSE has had time to switch current limits on each pairset from IInrush-2P to ILIM-2P.
2. In addition some of existing constants need to be slightly modified due to the changes made to D1.1.	[Part A] is correct description of the starting point of linrush process in the PD.
SuggestedRemedy	[Part B] is incorrect description of the ending point of linrush process in the PD. The end
Propose to implement darshan_08_0915.pdf	point of inrush process depends only on PD physics and not anything else e.g. PSE linrush timer.
Response Response Status C ACCEPT IN PRINCIPLE.	It is true that Inrush need to be ended before TInrush-2P min per Table 33-11 but it needs to be in separate sentence and not as part of the description of the end point of the Inrush
Adopt changes shown on page 2 of darshan_08_0915.pdf	process. The end point of the inrush process can be only when Cport is get to steady state by having Cport to be charged to 99% of its final value.
	The end point and the requirements for the linrush duration are described accurately in IEEE802.3-2012 version:
	"and ending when CPort is charged to 99 % of its final value. This period should be less than TInrush min per Table 33-11."
	[Part C] This part resolves the concern by requiring PD to meet PClass_PD as specified in Table 33-18 only after TInrush-2P min.
	[Part D] This part also resolves the concern for Type 2 and above by waiting Tdelay before PD can consume more than Type 1 power.
	Summary: The only problem with the current text of 802.3bt is the mixing between the

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Comment ID 29
 Page 9 of 72

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed Z/withdrawn
 9/18/2015 11:47:39 AM

 SORT ORDER: Comment ID
 D

Inrush end point process description and the requirement that the process will be ended within Tinrush minimum.

See detailed analysis in darshan_01_0915.pdf, titled: "Only PD affects PD POWERUP Tinrush max (Not the PSE Tinrush Timer).

SuggestedRemedy

1) Change lines 26-27 from:

33.3.7.3 Input inrush current

Inrush current per pairset is drawn beginning with the application of input voltage at the pairset 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 meet PClass_PD as specified in Table 33-18.

To:

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 33-18, 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 min per Table 33-11.

After TInrush-2P min, the PD shall meet PClass_PD as specified in Table 33-18.

(2) To consider to add the following note after line 50 that address the concerns in details and supply design guide lines.

Note: For successful startup, a PSE supplying linrush-2P minimum value and a PD not drawing more than Type 1 maximum DC current results in stable voltage ramping across the PD input capacitor which is important for successful POWER UP. In addition, Cport value and PD load current may be time dependent. As a result PD implementers need to ensure that for any combinations of Cport and Type 1 maximum DC current during POWERUP, the PD inrush period does not exceed 50msec and that higher PD load power is used only after Tdelay.

Response

Response Status C

ACCEPT IN PRINCIPLE. 1) Change lines 26-27 from:

33.3.7.3 Input inrush current

Inrush current per pairset is drawn beginning with the application of input voltage at the pairset 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 meet PClass_PD as specified in Table 33-18.

To:

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 33-18, and ending when CPort has reached a steady state and is charged to 99 % of its final value. This period should be less than Tinrush min per Table 33-11.

After Tinrush-2P min, the PD shall meet Pclass_PD as specified in Table 33-18.

CI 33	SC 33.1.4	P 198	L 29	# 30
Darshan, Yai	r	Microsemi		
Comment Ty	pe TR	Comment Status A		Cabling

Table 33-1, Cable Type for Type 3 and 4 systems.

If we agree that we want to work with cable instalations that were specified for Type 2 with Type 3 and 4 systems then we need to use Class D (ISO/IEC 11801:1995) for Type 3 and 4 as well.

SuggestedRemedy

1. Change Minimum Cabling Type for Type 3 and 4 to Class D (ISO/IEC 11801:2002) or

Cabling experts to explain the differences between Class D (ISO/IEC 11801:2002) and Class D (ISO/IEC 11801:1995) for group to decide.

Response Response Status C

ACCEPT IN PRINCIPLE.

OBE by comment 43

C/ 33	SC 33A.6	P 330	L 21	# 31
Darshan, Yai	r	Microsemi		
Comment Ty	pe TR	Comment Status A		Pres: Yair4

Marked for reference as YD_002_PSEP2P)

In D1.1 we have approved darshan_06_0715.pdf in

http://www.ieee802.org/3/bt/public/jul15/darshan_06_0715-REV008.docx.

It was requested specifically to use Annex B (and not Annex C and not Annex A) to the PSE PI material in 33.2.7.4.1 and 33.2.7.4.2 that links to a Normative Annex Named Annex B in the above link.

Currently the editor named the original Annex B as Annex 33A.6 to Annex 33A.10 which is informative Annex and the intent was that this part will be separate NORMATIVE Annex B. In addition It is not clear that all parts of original Annex B that are now Annex 33A.6 to Annex 33A.10 are related to each other as in original Annex B and not independed parts We need to implement the relevant comment from D1.1 and others as approved.

Summary:

PSE PI Material from the above link is Normative Annex B. The Autoclass material is Annex C.

The following remedy is identical to adopt Annex B in the above approved document while correcting the relevant instances were Annex A, B and C are mentioned.

SuggestedRemedy

Make the following changes without editorial licensing to do otherwise:

1. In Annex 33A.6 page 330 line 21: Change title to: Annex 33B [Normative]PSE PI pair-topair resistance/current unbalance.

1.1 In page 330 line 27: Change table Yuval_1 to Table 33B-1.

1.2 In page 330 line 28: Change <> to Annex F.

- 1.3 In page 330 line 51: Change Figure number from 33A-4 to 33B-1.
- 1.4 In page 331 line 17: Change Table 33A-1 to Table 33B-1

2. In Annex 33A.7 page 331 line 35: Change title to: 33B.1 direct measurements of Rpse_max and Rpse_min
2.1 in page 331 line 43: Change from 33A.8 and 33A.9 to 33B.2 and 33B.3
2.1 In page 332 line 17: Change Figure number from 33A-5 to 33B-2.

2.1 In page 332 line 17: Change Figure number from 33A-5 to 33B-2.

3. in Annex 33A.8 page 332 line 21: Change title to: 33B.2 Effective Resistance Measurement Method by measurement of current unbalance under worst case pair-to-pair load conditions

3.1 in page 332 line 41: Change Figure number from 33A-6 to 33B-3.3.2 in page 333 line 17: Change from 33A.9 to 33B.3

- 4. in Annex 33A.9 page 333 line 20: Change title to: 33B.3 Current Unbalance Measurement Method
 4.1 in page 333 line 22: change Table 33A-1 TO 33B-1
- 4.2 in page 333 line 24: change Figure 33A-7 to 33B-4.

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

4.3 in page 333 line 41: change Figure 33A-7 to 33B-4.

5. in Annex 33A.10 page 334 line 9: Change title to: 33B.4 Channel resistance with less than 0.1 ohm

6: Add Annex F (informative) - Derivation of Rload_max and Rload_min. Editor Note (to be removed prior to publication): To consider the value of adding informative Annex F to present Rload_max and Rload_min equation derivation and values.

7: in Annex 33B page 335 line 2: Change to Annex C.

Response Response Status C

ACCEPT IN PRINCIPLE.

Make changes in suggested remedy with editorial license only to combine with other accepted comments (fixing table and figure numbers, etc.).

Make these additional changes:

In page 330 lines 33-37 change the text from: "Figure 33B-1 illustrates the relationship between PSE PI Equation (33–4b) and E2EP2PRunb.

To:

"Figure 33B-1 illustrates the relationship between PSE PI Equation (33–4b) and Rload min and Rload max as specified in Table 33B-1."

In page 331 line 44: Replace 33A-4 with 33-4b.

Note to editor: We should be using cross references for all figure and section numbers. These should not be hard coded in text.

C/ 33 SC 33.2.7.4.1 P 246 L 15 # 32 Darshan, Yair Microsemi	C/ 33 SC 33.3.7.10 P 276 L 38 # 34 Darshan, Yair Microsemi
Comment Type TR Comment Status A Editorial	Comment Type TR Comment Status D PD Powe
See related comment YD_002_PSEP2P. "For channels with common mode pair resistance lower than 0.1, see guidelines in Annex 33A."	Referring to the text: All Class 5 and higher PDs shall not exceed Icon-2P-unb (Table 33–11, item 4a) on either pairset when tested according to section 33.3.7.10.1.
The relevant material in Annex 33A (from 33A.6 to 33A.10) is NORMATIVE and it was originally named Annex 33B. see seperate comment on Annex 33B ((MARKED FOR REFERENCE AS YD_002_PSEP2P) that was not implement correctly per the approved documents from July 2015)	 PDs need to meet Icon-2P_unb for all classes above class 5 including for extended power mode. In addition Ipeak-2P need to be met for extended power mode as well. Meeting (1) ensures meeting (2) as regard to E2EP2PRunb effect.
Therfore: 1. the word quidelines not to be used.	SuggestedRemedy
2. Replace reference from Annex 33A to Annex 33B.	1. Change from: All Class 5 and higher PDs shall not exceed Icon-2P-unb (Table 33–11, item 4a) on either
SuggestedRemedy replace:	pairset when tested according to section 33.3.7.10.1.
For channels with common mode pair resistance lower than 0.1, see guidelines in Annex 33A." With:	To: All Class 5 and higher PDs operating in non exteded power mode or extended power mode, shall not exceed Icon-2P-unb (Table 33–11, item 4a) on either pairset when tested according to section 33.3.7.10.1.
For channels with common mode pair resistance lower than 0.1, see Annex 33B."	·
Response Response Status C ACCEPT.	 After this text, to Add Editor Note: Editor Note: To update Rmin/Rmax and test setups for PD PI for meeting Icont-2P_unb and Ipeak-2P when PD is using extended power mode
C/ 33 SC 33.2.7.4 P 245 L 49 # <u>33</u> Darshan, Yair Microsemi	Proposed Response Response Status Z
	REJECT.
Comment Type TR Comment Status A Pres: Yair 4 Equation 33-4a (the equation that describes K) need to be updated per class 5 and 7 and not just class 6 and 8 as it is now. It is in line with all updates made for PSE/PD P2P_Runb for better accuracy due to the fact that unbalance parameters are changed as function of current.	This comment was WITHDRAWN by the commenter.
SuggestedRemedy Implement the changes proposed in page 4 of darshan_04_09.pdf	Extended power is not mentioned anywhere in the standard. Also, the change does not add anything as all Class 5 and higher PDs includes those using extended power.
Response Response Status C	
ACCEPT.	
Note: We changed K to Kipeak in another comment.	

C/ 33 SC Darshan, Yair	33.2.5	P 227 Microsemi	L 37	# 35	C/ 33 Darshan, `	SC 33.2.7.7 Yair	P 248 Microsemi	L 26	# 36
In any opera	ational state, t	Comment Status A ne Editor Note following this he PSE shall not apply ope detected a valid signature	rating power to		When power	ing to the text: connected to a from both pairs	Comment Status D single signature PD, a Type 3 ets before the current exceeded		
single pairse	et when conne allow turning	sentence needs to be addr ected to a SS class 0-4 PD. on and off a single pairset		J.	The al curren templa	bove text meant t flowing over or ate of figure 33-	to protect single signature cla ne pairset when the other pair 14. eplaced with text that reflects	set is about to c	
Type 3 and ⁻ single signat POWER_UF	e following te Type 4 PSE t ture PD, may P or POWER	xt after line 38: hat successfully detected v turn off one of the pairsets _ON states. ed, to remove editor note ir	and turn it on g		Chang When power	ative 1: je from: connected to a	single signature PD, a Type 3 ets before the current exceed	3 or Type 4 PSE s the "PSE uppe	should (TBD) remove erbound template" on
Response ACCEPT IN OBE by 225	PRINCIPLE.	Response Status C			should		bove class 5 single signature from both pairsets before the irset.		
					Remo PSE s	hould (TBD) rer	xt ("When connected to a sing nove power from both pairsets ' on either pairset.")		
					below "A PS lowert	for reference : E may remove p oound template"	e text in lines 24-26 covers alr power from the PI if the PI cur in Figure 33-14. Power shall l et PI current exceeds the "PSE	rent meets or ex be removed fron	cceeds the "PSE n the a pairset PI of a
					discor		a pairset is about to cross the at pair, the other pair will be ov		
					Proposed REJE	•	Response Status Z		
					This c	omment was W	ITHDRAWN by the commenter	er.	

Yair to resubmit for next meeting.

C/ 33 SC 33 . Darshan, Yair	2.7.7	P 249 Microsemi	L 43	# 37	<i>CI 33 Darshan, Y</i>		3.3.7.6	P 2 Micro		L 29	# 39
Comment Type 1 In Equation 33-7 This part adress The value of this to lcont-2P_unb E2EP2PRunb ef In other words: For Type 3 and SuggestedRemedy 1. Replace the e Row #3: 0.5*Pcl operating over for	there is a TBD that as the lowerbound it has to be the var which is the maxim fect. classes 5-8: The ntire row of the TB tass/Vport_PSE-2P ur pairs. ass/Vport_PSE-2F	nt Status A at can be replaced template for the f alue of 2P current num possible DC value is 0.5*Pcla 3D in equation 33- 2 to Icon-2P_unb f	time point t>=Tcu without the effect current over the ss/Vport_PSE to 7 to two separate or t>=Tcut-2Pmir	t-2P min. t of unbalance and up pair including Icon-2P_unb.	Comment T There i - A Typ 18) afte The tex be exce I believ It is rela condition Suggested I suggested	Type s some e 1 PD er TLIM 	input curr min (see o Figure 3 r Tlim_mi should be Figure 33- Dmsec. , ging from ed by the g	Comment Status in this text (lines 2 ent shall not excee Table 33-11 for a T 33-18 which specifie n so is it Tcut_min e Tcut_min both in 18 that talks about	D 8-29): d the PD u ype 1 PSE es Tcut_m or Tlim_m the text ar not crossi	in but talks at in? in Figure 33 ing Ppeak_PD	Pres: Fred mplate (see Figure 33- bout the current not to 8-18 due to the fact that which is the overload th Figure 33-18.
Icon-2P_unb is s Response ACCEPT IN PRI OBE by 158	, NCIPLE.	33-11. 9 Status C 	L 43	# 38				HDRAWN by the co	ommenter.		
Darshan, Yair	3.1	P 255 Microsemi	L 43	# 38							
It is important to are specifically r (We used this co SuggestedRemedy Add the following	emphasis that PD ot allowed by this ncept already in lin text after line 43 i	standard. nes 47-48). in page 255:		<i>Editorial</i> asensitive to polarity, ity are specifically not							
allowed by this s		e insensitive to po	ower supply polar	ity are specifically not							
Response ACCEPT IN PRI	•	e Status C									
OBE by comme	it 119.										

<i>Cl</i> 33 SC Darshan, Yair	33.2.7.4.2	P 246 Microsemi	L 41	# 40		CI 33 Darshan, Y		33.2.7	P 243 Microsemi	L 45	# 42
Comment Type	TR	Comment Status A		E	ditorial	Comment		ER	Comment Status A		Pres: Yair
originally na	t material in med Annex E AS YD_0	Annex 33A (from 33A.6 to 3 33B. see seperate commer 02_PSEP2P) that was not ii 15)	t on Annex 33B	((MARKED FOR		made i See th 5. <i>Suggested</i>	n D1.1 e propo <i>Remec</i>	and the p osed upda dy	notes on page 243-244 that possible acceptance of com ates for Editor Notes in page	nents in D1.2. 243-244 in dars	han_04_0915.pdf page
Therfore: Aafter imple	menting YD	_002_PSEP2P, change fror	n Annex 33A to	Annex 33B.					sed by darshan_04_0915.pd 243-244 per darshan_04_09		be accepted, to update
	-	-				Response			Response Status C		
SuggestedReme	edy					ACCE	PT IN F	PRINCIPL	E.		
replace: See Annex 3	33A.					Delete	all blue	e and red	text (all of note 1) on page 5	5 of	
With: See Annex 3	33B.					darsha	in_04_0	0915.pdf.			
Response		Response Status C									
ACCEPT.											
F7											
EZ											
<i>CI</i> 33 SC Darshan, Yair	33.3.7.3	P 90 Microsemi	L 43	# 41							
Comment Type	TR	Comment Status D		Pres	: Yair3						
supported by the same co See details i	y PSE linrus mment. in darshan_(addresses linrush in Table 3 h. Since both parameters a 03_0915.pdf titled: Type 3 a <i>r</i> ing the standard forward.	re tied together,	they are addresse	ed at						
SuggestedReme	edy										
See details i	in darshan_(03_0915.pdf.									
Proposed Respo REJECT.	onse	Response Status Z									
This comme	ent was WIT	HDRAWN by the commenter	er.								
Wait for pres	sentation.										

CI 33 SC 33.1.4 P 198 L 26 # 43 Maguire, Valerie Siemon	C/ 33 SC 33.1.1 P 196 L 6 # 44 Maguire, Valerie Siemon
Comment Type ER Comment Status A Cabling Missing TIA reference in 4 locations in Table 33-1. Cabling Cabling	Comment Type T Comment Status A Cabling Missing TIA reference.
SuggestedRemedy	SuggestedRemedy
For Type 1, change,	Change,
"Class D recommended"	"Type 3 operation requires ISO/IEC 11801:2002 Class D or better cabling"
to,	to,
"Class D or Category 5 recommended"	"Type 3 operation requires ISO/IEC 11801:2002 Class D. ANSI/TIA-568-C.2 Category 5e, or better cabling"
For Type 2, change,	Response Response Status C
"Class D (ISO/IEC 11801:1995)"	ACCEPT.
to,	EZ
"Class D (ISO/IEC 11801:1995) or Category 5 (ANSI/EIA/TIA-568-A:1995)"	C/ 33 SC 33.2.5.4 P 231 L 33 # 45
For Type 3, change	Bennett, Ken Sifos Technologies, In
	Comment Type E Comment Status A Editoria
"Class D (ISO/IEC 11801:2002)"	The word "tolerance" is referenced in the text: "but one or both of the offset tolerances are exceeded", however it has been removed from the table.
to,	SuggestedRemedy
"Class D (ISO/IEC 11801:2002) or Category 5e (ANSI/TIA-568-B.2:2001)"	Change "offset tolerances" to "offsets"
For Type 4, change	Response Response Status C
	ACCEPT.
"Class D (ISO/IEC 11801:2002)"	EZ
to,	
"Class D (ISO/IEC 11801:2002) or Category 5e (ANSI/TIA-568-B.2:2001)"	
Response Response Status C	
ACCEPT.	
See comment 30.	

C/ 33	SC 33.2.7	P 240	L 34	# 46	C/ 33	SC	33.3.4	P 262	L 6	# 48	
Bennett, K	len	Sifos Technol	logies, In		Bennett,	Ken		Sifos Techno	ologies, In		
Comment	Туре Е	Comment Status A		Editorial	Commen	t Type	Е	Comment Status A			LLDP
		parameter column, states: "Cor over both pairsets". In the info s			"LLD	P variab	le PD 4P-	ID" should be "LLDPDU var	iable" or "TLV	variable".	
		as the information about the pai		+, it is referenced as the	Suggeste Char		<i>dy</i>)P" to "TL∖	/ ".			
		ription would be clearer and sin rrent" instead of using "over bot		ferred to as the	Respons ACC			Response Status C			
Suggestee	dRemedy					LI I.					
Chang "Conti		tput current capability in POWE	R_ON state."		CI 33 Bennett,		33.2.7.4	P 245 Sifos Techno	L 22 blogies, In	# 49	
Response		Response Status C			Commen	t Type	т	Comment Status A	0		lcon
ACCE	PT.					statemer					
EZ						n-2P_unl Id say:	b is the m	aximum current the PSE is I	equired to supp	ort"	
CI 33	SC 33.2.7	P 240	L 39	# 47			b is the mi	inimum current the PSE is r	equired to suppo	ort"	
Bennett, K		Sifos Technol		# 4 1	Suggeste	edReme	dy				
Comment		Comment Status A		Editorial	Char	nge the v	vord "max	imum" to "minimum".			
		1 shows "E2ERunb" which doe	sn't match "E2l		Respons	е		Response Status C			
elsew	here. The sug	gested remedy makes them the	e same.		ACC	EPT IN I	PRINCIPL	E.			
(Alterr	natively, given	that it's defined, the symbol "E2	2EP2PRunb" co	ould be simplified.)	OBE	by 154					
Suggested	Remedy										
	ge entries in ite Runb" to "E2EF	em 4a, table 33-11, from: 22PRunb"									
Response	PT IN PRINCI	Response Status C									
	by comment 21										

ΕZ

C/ 33 SC 33.	2.7	P 269	L 35	# [50	C/ 33	SC 33.3.7		P 269	L 35	# 51
C/ 33 SC 33. Bennett, Ken	.3.7	Sifos Techno		# 50	Bennett, k			Sifos Techno		# 51
Comment Type T	- Cor	nment Status D		PD Classification	Comment	Type TR	Comm	ent Status A		PD Powe
Classification PC	Class_PD and	ort power and is desc I the channel loss. ature PD's use PClas	·	a 33-3 using the PD t, and different classes	avera colum minim	ge power" to " In. It seems lik Ium "available	nput availabl e the values " power unde	e average power". for it should be in t r worst case condi	The values for i the MIN column, tions.	because it is a
The suggestion i	is one possibl	le approach to remed	v this problem.					l info reference, 33 pes not match eith		Class_PD as the g nor the modified
SuggestedRemedy			, p. ex.e					n in table 33-18.		g nor the meaned
Create new dual PClass_PD = PC	ClassDS_alta	rameters PClassDS_a + PClassDS_altb. Ac each pairset in dual si	dd text in 33.3.7.					which is that PClas table 33-18, with		a power classification ach class.
Proposed Response	Res	oonse Status Z								's used in the PSE
REJECT.								es values for each plumns of table 33		ate table (33-7), and
This comment w	as WITHDRA	WN by the comment	er.			uggested rem nation text in 3		t change the conte	ent or intent of the	e pre-existing
					Suggeste	dRemedy				
					1) Inc	orporate PCla	ss_PD levels	into table 33-16a.		
								with the following d MAX="PClass_P		r="Input Average
					3) Adj	ust references	as necessar	У		
					(See I	bennett_PClas	s_PD.pdf)			
					Response ACCE	PT IN PRINC	,	se Status C		
					Adopt	changes sho	wn in:			
					benne	ett Pclass_PD	rev 1.pdf			

Beia, Christian	.1 P 267 STMicroelectr	L 15 onics	# 52	<i>CI</i> 33 Beia, Christi	SC 33.3.6 an	P 268 STMicroeled	L 5 ctronics	# 54
can be relaxed if the l	Comment Status A s event spec introduces a big to PSE was able to better control omplexity to the PSE since its	the lenght of the	long first class event.	accurac long fing SuggestedR	, 3-17a oclass timing, a y, which can bo er. e <i>medy</i>	Comment Status A as well as TLCF_PD, introdu e relaxed if the PSE was ab		
	item7, TLCF_PD max to 86.5				Table 33-17 it 5.5 as min	em7, TACS max to 86.5 <i>Response Status</i> C		
Response ACCEPT IN PRINCIF	Response Status C PLE.			•	T IN PRINCIPL	•		
OBE by 239								
Cl 33 SC 33.2.6.3		L 42	# 53	C/ 33 Lukacs, Mikl	SC 33.2.4.6 os	P 216 Silicon Labs	L 18	# 55
impact on PSE comp	STMicroelectr Comment Status A vent timing for the PSE can be lexity, since the accuracy of PS ings which can be relaxed, sinc D.	easily set to a tig SE clock already	allows it. This is	are not o SuggestedR	ne first place w described. <i>emedy</i> chapter into se	Comment Status A where the single and dual signed ection 33.1. describing the P		
SuggestedRemedy				Response		Response Status C		
Change Table 33-10 Leave 100 as Max	item 12 TLCF to 87.5 Min							
				Insert po	ointer at first us	se of each "single" and "du	al" with appropri	ate definition reference.
Response	Response Status C							
ACCEPT IN PRINCIP	,			<i>CI</i> 33 Lukacs, Mikl	SC 33.2.0.a os	P 200 Silicon Labs	L 49	# 56
•	,			Lukacs, Mikl	os /pe E a typo in this s		-	Editoria
ACCEPT IN PRINCIP	,			Lukacs, Mikl Comment Ty There is SuggestedR	os vpe E a typo in this s emedy	Silicon Labs	ation of differs bet	Editoria
ACCEPT IN PRINCIF	,			Lukacs, Mikl Comment Ty There is SuggestedR	os <i>type</i> E a typo in this s <i>emedy</i> to: 1-Event C	Silicon Labs Comment Status A sentence: 1-Event Classifica	ation of differs bet	Editoria

Cl 33 SC 33.2.6 Yseboodt, Lennart	P 236 Philips	L 15	# 57	<i>CI</i> 33 Yseboodt, I	SC 33.2.1 Lennart	P 201 Philips	L 10	# 60
—	Comment Status A EV1, CLASS_EV2, and CLASS_ based on the observed current	- '			ence to "The loca	Comment Status A ation of Alternative A and Alte Figure 33-4, Figure 33-5, Fig		
This line seems to b SuggestedRemedy Match fontsize with	be in a slightly larger font size. surrounding text.	Ū		illustrat	ocation of Alterna	ative A and Alternative B End -4, Figure 33-5, Figure 33-5a, igure 33-7b."		
Response ACCEPT.	Response Status C			Response ACCEF	PT.	Response Status C		
EZ				EZ				
C/ 33 SC 33.2.6 Yseboodt, Lennart	.3 <i>P</i> 237 Philips	L 45	# 58	CI 33 Yseboodt, I	SC 33.2.4 Lennart	P 209 Philips	L 35	# 61
Comment Type E	Comment Status A		Editorial	Comment T	51	Comment Status A SEs shall provide the behavio	r of the state dia	<i>Editorial</i> agrams shown in
	PSEs may choose to implement	nt an extension			s (TBD)."	·		
SuggestedRemedy "Type 3 and Type 4	PSEs may choose to implement PSEs may implement an exter Response Status C			Figures Suggested "Type 3	s (TBD)." Remedy	SEs shall provide the behavio e 33-9g."	r of the state dia	agrams shown in
SuggestedRemedy "Type 3 and Type 4	PSEs may implement an exter			Figures Suggested "Type 3	s (TBD)." I <i>Remedy</i> 3 and Type 4 PS s 33-9a to Figure		r of the state dia	agrams shown in
SuggestedRemedy "Type 3 and Type 4 Response ACCEPT. EZ	PSEs may implement an exter Response Status C		# [<u>59</u>	Figures Suggested "Type 3 Figures Response	s (TBD)." I <i>Remedy</i> 3 and Type 4 PS s 33-9a to Figure	e 33-9g."	r of the state dia	agrams shown in
SuggestedRemedy "Type 3 and Type 4 Response ACCEPT. EZ C/ 33 SC 33.2.0 Yseboodt, Lennart	PSEs may implement an exter Response Status C	ision"		Figures Suggested "Type 3 Figures Response ACCEF	s (TBD)." <i>Remedy</i> 3 and Type 4 PS s 33-9a to Figure PT. PT. SC 33.2.4.1	e 33-9g."	r of the state dia	agrams shown in # <u>62</u>
SuggestedRemedy "Type 3 and Type 4 Response ACCEPT. EZ C/ 33 SC 33.2.0 Yseboodt, Lennart Comment Type E	PSEs may implement an exter <i>Response Status</i> C a <i>P</i> 200 Philips	ision" <i>L</i> 49	# 59 Editorial	Figures Suggested "Type 3 Figures Response ACCEF EZ C/ 33 Yseboodt, 1 Comment 7	s (TBD)." <i>Remedy</i> 3 and Type 4 PS s 33-9a to Figure PT. SC 33.2.4.1 Lennart <i>Type</i> E	e 33-9g." Response Status C P 210 Philips Comment Status A	L 5	
SuggestedRemedy "Type 3 and Type 4 Response ACCEPT. EZ C/ 33 SC 33.2.0 Yseboodt, Lennart Comment Type E "1-Event Classificati 12 for details." SuggestedRemedy "1-Event Classificati	PSEs may implement an exter <i>Response Status</i> C a <i>P</i> 200 Philips <i>Comment Status</i> A	lsion" <i>L</i> 49 lease refer to Tal	# <u>59</u> <i>Editorial</i> ble 33-10 items 11 and	Figures Suggested, "Type 3 Figures Response ACCEF EZ C/ 33 Yseboodt, 1 Comment 7 "If a PS Suggested.	s (TBD)." <i>Remedy</i> 3 and Type 4 PS s 33-9a to Figure PT. SC 33.2.4.1 Lennart <i>Type</i> E SE performs det <i>Remedy</i>	e 33-9g." Response Status C P 210 Philips	L 5 e 33.2.5.5."	# <mark>62</mark> Editorial
SuggestedRemedy "Type 3 and Type 4 Response ACCEPT. EZ C/ 33 SC 33.2.0 Yseboodt, Lennart Comment Type E "1-Event Classificati 12 for details." SuggestedRemedy "1-Event Classificati for details."	PSEs may implement an exter <i>Response Status</i> C a <i>P</i> 200 Philips <i>Comment Status</i> A ion of differs between Types. Plea <i>Response Status</i> C	lsion" <i>L</i> 49 lease refer to Tal	# <u>59</u> <i>Editorial</i> ble 33-10 items 11 and	Figures Suggested, "Type 3 Figures Response ACCEF EZ C/ 33 Yseboodt, I Comment 7 "If a PS Suggested, "If a PS Response	s (TBD)." <i>Remedy</i> 3 and Type 4 PS s 33-9a to Figure PT. SC 33.2.4.1 Lennart <i>Type</i> E SE performs det <i>Remedy</i>	e 33-9g." Response Status C P 210 Philips Comment Status A ection using Alternative B sec ection using Alternative B sec Response Status C	L 5 e 33.2.5.5."	# <mark>62</mark> Editorial
SuggestedRemedy "Type 3 and Type 4 Response ACCEPT. EZ Cl 33 SC 33.2.0 Yseboodt, Lennart Comment Type E "1-Event Classificati 12 for details." SuggestedRemedy "1-Event Classificati for details." Response	PSEs may implement an exter <i>Response Status</i> C a <i>P</i> 200 Philips <i>Comment Status</i> A ion of differs between Types. Plea <i>Response Status</i> C IPLE.	lsion" <i>L</i> 49 lease refer to Tal	# <u>59</u> <i>Editorial</i> ble 33-10 items 11 and	Figures Suggested, "Type 3 Figures Response ACCEF EZ C/ 33 Yseboodt, I Comment 7 "If a PS Suggested, "If a PS Response ACCEF	s (TBD)." <i>Remedy</i> 3 and Type 4 PS s 33-9a to Figure PT. SC 33.2.4.1 Lennart <i>Type</i> E SE performs det <i>Remedy</i> SE performs det	e 33-9g." Response Status C P 210 Philips Comment Status A ection using Alternative B sec ection using Alternative B sec Response Status C .E.	L 5 e 33.2.5.5."	# <mark>62</mark> Editorial

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 33.2.7.11 Yseboodt, Lennart	P 250 Philips	L 45	# 63	<i>Cl</i> 33 <i>SC</i> 33.3.2 Yseboodt, Lennart	P 256 Philips	L 51	# 65
Comment Type E "33.2.7.11 intra-pair cur Capitalization. SuggestedRemedy "33.2.7.11 Intra-pair cur Response ACCEPT IN PRINCIPLE OBE by 205 EZ	Comment Status A rent unbalance" rent unbalance" <i>Response Status</i> C		Editorial	classification and Data	Comment Status A I/DS PDs implement a minin Link Layer Classification (se 3 or 4 on each pairset, while st one pairset." Response Status C	e 33.6). Type 3/	DS PDs advertise a
	P 254 Philips Comment Status A ote: Yair to review AC MPS f ded not supporting AC-MPS		# 64 Editorial	Space need in "atleast" EZ C/ 33 SC 33.3.3.3 Yseboodt, Lennart	'. Also add "," after "3" in "1 <i>P</i> 259 Philips	, 2, 3 or 4". <i>L</i> 6	# [66
SuggestedRemedy Remove Editors note. Response ACCEPT.	Response Status C	юг турс 5/ 4 .		Comment Type E In variable "pse_dll_po "The PSE is delivering	Comment Status A		PD State Diagrar
EZ					nation with the shown class s not correct.		

					-		
Cl 33 SC 33.3.3 Yseboodt, Lennart	.3 <i>P</i> 259 Philips	L 6	# 67	C/ 33 SC 33.3.4 Yseboodt, Lennart	P 263 Philips	L 1	# 70
Comment Type E In variable "pse_pov		n	Editorial	Comment Type E Co "PD input connector" is not c	omment Status A onsistent with rest of de	ocument	Editorial
The variable indicat	ing the PD's requested power es how much power the PSE hand nbination with the shown class s y is not correct.	as allocated by s	howing a number of	SuggestedRemedy change to "PD PI" Response Res ACCEPT.	sponse Status C		
	vering' into 'has allocated'.			C/ 33 SC 33.3.5.3	P 267	L 40	# 71
Response	Response Status C			Yseboodt, Lennart	Philips	- +0	"
ACCEPT. EZ				Comment Type E Co "After power up, a PD implen throughout"	omment Status A nenting Autoclass shall	draw its maxim	<i>Editorial</i> um power draw
C/ 33 SC 33.3.4	P 262	L 13	# 68	2x draw.			
Yseboodt, Lennart	Philips			SuggestedRemedy			
Comment Type E "two voltage/current	Comment Status R		PD Detection	"After power up, a PD implen throughout"	nenting Autoclass shall	draw its highest	required power
SuggestedRemedy change to "two volta	age and current"			Response Res ACCEPT.	sponse Status C		
Response REJECT.	Response Status C			EZ			
Could be filed as a	maintenance request.			C/ 33 SC 33.3.7.3 Yseboodt, Lennart	P 271 Philips	L 48	# 72
Cl 33 SC 33.3.4 Yseboodt, Lennart	P 262 Philips	L 33	# 69	Comment Type E Co "Type3" is missing space	omment Status A		Editorial
Comment Type E "PD input connector	Comment Status A	ocument	Editorial	SuggestedRemedy "Type 3"			
SuggestedRemedy change to "PD PI"				Response Res ACCEPT.	sponse Status C		
Response ACCEPT.	Response Status C			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 33.3.7.10 Yseboodt, Lennart	D.1 <i>P</i> 277 Philips	L 8	# 73	C/ 33 SC 33.4.9.1.1 P 288 L 47 # 76 Yseboodt, Lennart Philips
Comment Type E Additional info is empty	<i>Comment Status</i> A y for Rpair(min) and Rpair(ma	ıx).	PD Power	Comment Type E Comment Status D All No dimension for NEXTconn parameter. All Al
SuggestedRemedy				SuggestedRemedy
Put "See Annex 33A.5"	" in both			Replace "is the Near End Crosstalk loss" with "is the Near End Crosstalk loss in dB"
Response ACCEPT.	Response Status C			Proposed Response Response Status Z REJECT.
EZ				This comment was WITHDRAWN by the commenter.
C/ 33 SC 33.3.8 Yseboodt, Lennart	P 278 Philips	L 18	# 74	
Comment Type E	Comment Status A		Editorial	NonEasy
"of th MPS" is misspell			Editorial	C/ 33 SC 33.4.9.1.1 P 289 L 3 # 77
SuggestedRemedy				Yseboodt, Lennart Philips
change to: "of the MPS	S"			Comment Type E Comment Status D Editor
Response	Response Status C			no space between and before 'for' and bracket (two times)
ACCEPT.				SuggestedRemedy
EZ				Add space. De-italicize 'for'.
				Proposed Response Response Status Z
Cl 33 SC 33.4.6 Yseboodt, Lennart	P 285 Philips	L 3	# 75	REJECT.
Comment Type E	Comment Status A		Editorial	This comment was WITHDRAWN by the commenter.
SuggestedRemedy Add space. De-italicize	e 'for'.			NonEasy
Response ACCEPT.	Response Status C			
EZ				

C/ 33 SC 33.4.9. Yseboodt, Lennart	1.1 <i>P</i> 289 Philips	L 3	# 78	C/ 33 SC 33.4.9 Yseboodt, Lennart	9.1.2 P 28 Philips		# 80
Comment Type E Straigth brackets use	Comment Status D ed, inconsistent with rest of do	ocument.	Editorial	Comment Type E Dimension is missi	Comment Status	D	AES
SuggestedRemedy Change straight brac	ket to curly brackets and add	dimension after	prackets (dB).	SuggestedRemedy Add "in dB" after in	sertion loss		
Proposed Response REJECT.	Response Status Z			Proposed Response REJECT.	Response Status	z	
This comment was V	VITHDRAWN by the commen	ter.		This comment was	WITHDRAWN by the cor	mmenter.	

NonEasy					NonEa	asy			
C/ 33 SC 33.4.9.1.1 Yseboodt, Lennart	P 289 Philips	L 11	# 79		CI 33 Yseboodt,	SC 33.4.9.1.2 Lennart	P 289 Philips	L 40	# 81
Comment Type E No dimension	Comment Status D			AES	<i>Comment</i> Dimen	<i>Type</i> E ision is missing	Comment Status D		AES
SuggestedRemedy Replace "is the Near Er	nd Crosstalk loss" with "is the	e Near End Cross	stalk loss in dB"		S <i>uggest</i> ea Add "ir	<i>IRemedy</i> n dB" after insertio	on loss		
Proposed Response REJECT.	Response Status Z				Proposed REJEC		Response Status Z		
This comment was WIT	HDRAWN by the commente	er.			This co	omment was WIT	HDRAWN by the commen	ter.	
NonEasy					NonEa	asy			
					C/ 33 Yseboodt,	SC 33.6.3.4 Lennart	P 302 Philips	L 52	# 82
					Comment Lower		Comment Status A "Table 33-23 Attribute to s	state diagram varia	<i>Editorial</i> able cross-reference"
					Suggestea Add Io	<i>IRemedy</i> wer border of tabl	e		
					Response ACCE		Response Status C		
					EZ				
	d ER/editorial required GR/ patched A/accepted R/reject					1 Z/withdrawn	Comr	nent ID 82	Page 24 of 72 9/18/2015_11:47:3

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.A.4	P 329	L 27	# 83	C/ 33 SC 33.A.6	P 330	L 34	# 86
Yseboodt, Lennart	Philips			Yseboodt, Lennart	Philips		
Comment Type E Four Pair is not consis	Comment Status A stent with rest of document		Editorial	Comment Type E Equation 33B-1 is wrong	Comment Status A		Pres: Yair4
SuggestedRemedy change Four Pair to 4	I-pair			SuggestedRemedy Equation 33A-4			
Response ACCEPT.	Response Status C			Response F ACCEPT IN PRINCIPLE.	Response Status C		
EZ				OBE by 31			
C/ 33 SC 33.A.6 Yseboodt, Lennart	P 330 Philips	L 27	# 84	C/ 33 SC 33A.6 Yseboodt, Lennart	P 331 Philips	L 4	# 87
Comment Type E Table Yuval does not SuggestedRemedy Correct reference to ta			Pres: Yair4	There is suspicion that the add up as "ohms + dimens Note sure due to missing o	sionless" rather than Ohm		Pres: Yair4 he units are likely to
Response ACCEPT IN PRINCIP	Response Status C PLE.			SuggestedRemedy Replace formula by R_pair_max <= R_pair_mi	in * (U + K_pse)		
OBE by 31				Yair, correct ?			
C/ 33 SC 33.A.6 Yseboodt, Lennart	P 330 Philips	L 28	# 85	Response F ACCEPT IN PRINCIPLE.	Response Status C		
Comment Type E	Comment Status A		Pres: Yair4	Delete lines 3-12 on page	331.		
reference is missing ir SuggestedRemedy Yair, where does this				C/ 33 SC 33.A.6 Yseboodt, Lennart	P 331 Philips	L 12	# 88
Response ACCEPT IN PRINCIP	Response Status C			Kpse is not specified	Comment Status A		Pres: Yair4
OBE by 31	LL.			SuggestedRemedy Yair, please specify Kpse			
					Response Status C		
				OBE by 87			

Cl 33 SC 33.A.7 Yseboodt, Lennart	P 331 Philips	L 41	# 89	C/ 33 SC 33.2.5 P 227 L 38 # 92 Yseboodt, Lennart Philips
Comment Type E Reference to 33-B2 is	Comment Status A		Pres: Yair4	Comment Type ER Comment Status A PSE Powering "In any operational state, the PSE shall not apply operating power to the PI a pairset until
SuggestedRemedy Change reference to fi Response ACCEPT IN PRINCIPI OBE by 31.	Response Status C			the PSE has successfully detected a valid signature over that pairset." "Editor's Note: The above sentence needs to be addressed as it forbids turning off and on a single pairset when connected to a SS class 0-4 PD." This has been addressed by in 33.2.7.1: "A Type 3 or Type 4 PSE that is connected to a class 0-4 single-signature PD and is in the POWER_ON state may transition between 2-pair and 4-pair power at any time, including
Cl 33 SC 33.A.10 Yseboodt, Lennart Comment Type E "33A.10Channel resist SuggestedRemedy add space	P 334 Philips Comment Status A tance" is missing space	L 9	# 90 Pres: Yair4	after the expiration of T pon." SuggestedRemedy Remove editors note. Possibly amend the sentence: "In any operational state, the PSE shall not apply operating power to the PI a pairset until the PSE has successfully detected a valid signature over that pairset. See 33.2.7.1 for transitions between 2-pair and 4-pair mode."
ACCEPT IN PRINCIPI OBE by 31.	Response Status C LE.			Response Response Status C ACCEPT IN PRINCIPLE. OBE by comment 225.
C/ 33 SC 33.A.10 Yseboodt, Lennart	P 334 Philips	L 13	# 91	CI 33 SC 33.2.5 P 227 L 40 # 93 Yseboodt, Lennart Philips Philips Comment Type ER Comment Status A PSE Powering
Comment Type E missing spaces around SuggestedRemedy add spaces	Comment Status A d <>		Editorial	Topic: Class 0 / Type 3 removal "Editor's Note: The above sentence needs to be addressed as it forbids turning off and on a single pairset when connected to a SS class 0-4 PD." SuggestedRemedy "Editor's Note: The above sentence needs to be addressed as it forbids turning off and on
Response ACCEPT. EZ	Response Status C			a single pairset when connected to a SS class 1-4 PD." Response Response Status C ACCEPT IN PRINCIPLE. OBE by comment 261.

C/ 33 SC 33.2.7 Yseboodt, Lennart	P 240 Philips	L 35	# 94	CI 33 SC 33.2 Yseboodt, Lennart	2.4.4 <i>P</i> 211 Philips	L 40	# 96
Comment Type ER Bulk comment. Table 33-11.	Comment Status A		Editorial	Comment Type EF original text: " Ty Typo in type	R Comment Status A ype 3 and Tyep 4 PSEs shall use	e this value"	Editorial
1,2,3,4 as PSE Type is SuggestedRemedy	not consistent, All is better.				4 PSEs shall use this value."		
change 1,2,3,4 to All in: - page 240, item 4 - page 241, item 5 - page 242, item 13 - page 243, item 20, 22				Response ACCEPT. EZ	Response Status C		
Response ACCEPT IN PRINCIPLI	Response Status C E.			Cl 33 SC 33.2 Yseboodt, Lennart	Philips	L 5	# 97
change 1,2,3,4 to All in: - page 240, item 4 - page 241, item 5 - page 242, item 13 - page 243, item 22, 23				that, Type PD <=	Comment Status A PSE shall select to meet the requ PSE Type <= Type PSE."	irements of its Ty	Editorial pe or a less Type such
C/ 33 SC 33 Yseboodt, Lennart	P 0 Philips	L 0	# 95		PSE shall select to meet the requied Type <= Type_PSE."	irements of any T	ype such that
Comment Type ER "Class" and "class" are	Comment Status A used inconsistently.		Editorial		the paragraph has so many strik and insert a fresh one.	keouts, readability	r is poor.
We are capitalizing Typ SuggestedRemedy Change all occurrences	e, it would make sense to do	the same with	Class.	Response ACCEPT.	Response Status C		
Response ACCEPT.	Response Status C						

ΕZ

C/ 33 SC 33.2.5.2 Yseboodt, Lennart	P 229 Philips	L 50	# 98	C/ 33 SC 33.3.1 Yseboodt, Lennart	P 255 Philips	L 19	# 101
Comment Type E	Comment Status A		Editorial	Comment Type ER	Comment Status A		Editoria
'voltage/current' can be	read as 'or', should be 'and'			"Type 1 and Type 2 PD	s shall be capable of accept	ting power on eith	ner of two pairsets and
SuggestedRemedy Replace 'voltage/curren	t' by 'voltage and current'			power on either pairset	oth pairsets. Type 3 and Typ and shall be capable of acc ed Mode A and Mode B."		
Response ACCEPT IN PRINCIPLI	Response Status C E.			'The two conductor sets previous text).	' have not been called out a	at this point (due t	o changes in the
Change sentence to:				SuggestedRemedy			
"An effective resistance				Replace by: "There are with the two pairsets."	two conductor sets, named	Mode A and Mod	de B, corresponding
two or more measurem	ents made during the detect	ion process."		Response	Response Status C		
C/ 33 SC 33.2.6	P 234	L 40	# 99	ACCEPT IN PRINCIPLE	Ξ.		
rseboodt, Lennart	Philips			OBE by 172			
Comment Type E Nitpick comment.	Comment Status A			EZ			
	ne can debate if this include	s 4.		C/ 33 SC 33.3.2	P 256	L 7	# 102
SuggestedRemedy				Yseboodt, Lennart	Philips		
	d 4" or use "from 0 up to and	f including 4".		Comment Type ER	Comment Status A		Editoria
Response	Response Status C			MPS column uses differ	rent wording than matching	PSE table 33-1a	(page 200).
ACCEPT.				SuggestedRemedy			
Replace with: "from 0 u	ip to and including 4".			Change column header Change values to "No, N	"Maintain Power Signature' No, 5xYes".	" to "Low MPS su	ipport"
EZ				Response	Response Status C		
C/ 33 SC 33.2.6	P 235	L 8	# 100	ACCEPT.			
rseboodt, Lennart	Philips			EZ			
Comment Type E "Editor's Note: Measure addressed."	Comment Status A ment method and PSE mar	gin for Autoclass	<i>Editorial</i> still need to be				
SuggestedRemedy This work is completed,	editors note can be remove	d.					
Response	Response Status C						
ACCEPT.	, -						
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	P 264	L 3	# 103	C/ 33 SC 33.3		L 1	# 106
Yseboodt, Le		Philips			Yseboodt, Lennart	Philips		
		Comment Status A ification configurations are sh o line 1.	own in Table 33	Editorial 3-15a."	Comment Type ER Table 33-18. 1,2,3,4 is not cons	Comment Status A	nes in table)	PD Power
SuggestedR Remove Response	emedy sentence.	Deenenee Status C			SuggestedRemedy change to "All" - Item 5, Item 8, Ite	em 9, Item 10, Item 11 (2x), Item	12, Item 13	
ACCEP1 NonEasy		Response Status C			Response ACCEPT.	Response Status C		
		Deer		# [101	EZ			
CI 33 Yseboodt, Le Comment Ty		P 265 Philips Comment Status A	L 7	# 104	C/ 33 SC 33A Yseboodt, Lennart	P 329 Philips	L 1	# 107
3 PDs oj as Type	perating with a 4 PDs respond	cation is a subset of Multiple- maximum power draw corres d to 1-Event classification with ately ? Can be shorter.	ponding to clas	s 4 or higher, as well	Comment Type ER Change bars miss SuggestedRemedy Add change bars.	Comment Status A ing in this appendix.		Editorial
and Type	-Event classific e 4 PDs operation	cation is a subset of Multiple-I ting with a maximum power d ssification with a Class 4 sign	raw correspond		Response ACCEPT. EZ	Response Status C		
Response ACCEP1	Т.	Response Status C			C/ 33 SC 33.2 Yseboodt, Lennart	.7 <i>P</i> 240 Philips	L 38	# 108
C/ 33 Yseboodt, Le	SC 33.3.5.2 ennart	P 266 Philips	L 39	# 105	Comment Type ER Item 4a Paramete Not intuitive.	Comment Status A r is "Pairset current due to E2ER	unb within E2ER	Editoria. unb range for class x".
Comment Ty "Dual-sig Better w	, gnature PDs m	Comment Status A ay use different class signatu	re per pairset."	PD Classification	SuggestedRemedy Change Paramete	r for Item 4a to:		
SuggestedR	lemedy	ay use a different class signa	ture on each pa	irset."	"Pairset current ca Response	apability in POWER_ON state, C Response Status C	lass x"	
Response	T IN PRINCIPL	Response Status C			ACCEPT IN PRIN OBE by comment	-		
OBE by	147.							

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 Yseboodt,	SC 33.2.7 Lennart	P 242 Philips	L 32	# 109	C/ 33 Yseboodt,	SC 33.2.7 Lennart	P 243 Philips	L 28	# 111
	33-11, Item 17, I itional informatic	Comment Status A Ihold on: "Applies to highest curren	nt pair."	Editorial	"3 Item	to Table 33-11 s	SEs that implement MPS d	etection by meas	<i>Editoria</i> sum of the
00	2	plies to pair with the highest	current."		'nairse	ets of the same or	plarity' does not make sense	This should be	'nairs'
Response	. , ,	Response Status C			Suggested				
ACCE	PT.				Replac	ce by "3 Item 17b	applies to PSEs that impler of the same polarity."	ment MPS detec	tion by measuring the
EZ					Response		Response Status C		
C/ 33 Yseboodt,	SC 33.2.7	P 242 Philips	L 32	# 110	ACCE	PT.			
Comment		Comment Status A		Editorial	EZ				
Table : Param	33-11, Item 17b, eter is called "D	, Ihold C MPS current when total su	ım of both pairs v		C/ 33 Yseboodt,	SC 33.2.7.4.1 Lennart	P 246 Philips	L 11	# 112
measu	irea, connectea	to a single-signature PD"			Comment	Type ER	Comment Status A		lcor
		this lengthy description.					urrent due to E2EP2PRunb, during normal operating con		g I con-2P-unb as
Suggested Replac	Remedy	current when sum of both pa	irs with the same	polarity is measured,	defined Suggested	d in Table 33-11 d IRemedy		ditions."	-
Suggested Replac connec	Remedy ce by "DC MPS o	current when sum of both pa	irs with the same	polarity is measured,	defined <i>Suggested</i> " the	d in Table 33-11 d <i>IRemedy</i> maximum pair cu	during normal operating con	ditions." does not exceed	-
Suggested Replac	Remedy be by "DC MPS o cted to a single-s	current when sum of both pa signature PD"	irs with the same	polarity is measured,	defined <i>Suggested</i> " the	d in Table 33-11 (<i>IRemedy</i> maximum pair cu d in Table 33-11 (during normal operating con urrent due to E2EP2PRunb	ditions." does not exceed	-
Suggested Replac connec Response	Remedy be by "DC MPS o cted to a single-s	current when sum of both pa signature PD"	irs with the same	polarity is measured,	defined Suggested " the defined Response	d in Table 33-11 o <i>IRemedy</i> maximum pair cu d in Table 33-11 o PT. SC 33.2.7.4.1	during normal operating con urrent due to E2EP2PRunb during normal operating con	ditions." does not exceed	-
Suggested Replac connec Response ACCE	Remedy be by "DC MPS of cted to a single-s	current when sum of both pa signature PD"	irs with the same	e polarity is measured,	defined Suggested " the defined Response ACCE CI 33 Yseboodt, Comment	d in Table 33-11 o <i>IRemedy</i> maximum pair co d in Table 33-11 o PT. SC 33.2.7.4.1 Lennart <i>Type</i> ER 2P-unb maximum	during normal operating con urrent due to E2EP2PRunb during normal operating con <i>Response Status</i> C <i>P</i> 246	ditions." does not exceed ditions." <i>L</i> 14	# I con-2P-unb as # <u>113</u> /cor
Suggested Replac connec Response ACCE	Remedy be by "DC MPS of cted to a single-s	current when sum of both pa signature PD"	irs with the same	e polarity is measured,	defined Suggested " the defined Response ACCE CI 33 Yseboodt, Comment "I con- 0.1 to	d in Table 33-11 of Remedy maximum pair co d in Table 33-11 of PT. SC 33.2.7.4.1 Lennart Type ER 2P-unb maximum 12.5."	during normal operating con urrent due to E2EP2PRunb during normal operating con <i>Response Status</i> C <i>P</i> 246 Philips <i>Comment Status</i> A	does not exceed ditions." <i>L</i> 14 el common mod	I I con-2P-unb as # <u>113</u> <i>Icor</i> e pair resistance from
Suggested Replac connec Response ACCE	Remedy be by "DC MPS of cted to a single-s	current when sum of both pa signature PD"	irs with the same	e polarity is measured,	defined Suggested " the defined Response ACCE CI 33 Yseboodt, Comment "I con- 0.1 to	d in Table 33-11 of Remedy maximum pair co d in Table 33-11 of PT. SC 33.2.7.4.1 Lennart <i>Type</i> ER 2P-unb maximum 12.5." is no I con-2P-un	during normal operating con urrent due to E2EP2PRunb during normal operating con <i>Response Status</i> C <i>P</i> 246 Philips <i>Comment Status</i> A n is specified for total chann	does not exceed ditions." <i>L</i> 14 el common mod	I I con-2P-unb as # <u>113</u> <i>Icor</i> e pair resistance from
Suggested Replac connec Response ACCE	Remedy be by "DC MPS of cted to a single-s	current when sum of both pa signature PD"	irs with the same	polarity is measured,	defined Suggested " the defined Response ACCE CI 33 Yseboodt, Comment "I con- 0.1 to There Suggested	d in Table 33-11 of Remedy maximum pair co d in Table 33-11 of PT. SC 33.2.7.4.1 Lennart <i>Type</i> ER 2P-unb maximum 12.5." is no I con-2P-un IRemedy	during normal operating con urrent due to E2EP2PRunb during normal operating con <i>Response Status</i> C <i>P</i> 246 Philips <i>Comment Status</i> A n is specified for total chann	ditions." does not exceed ditions." <i>L</i> 14 el common mod e Rch rather thar	# I con-2P-unb as # <u>113</u> <i>Icor</i> e pair resistance from n constant.

C/ 33 SC 33.2 Yseboodt, Lennart	.4.6	P 218 Philips	L 5	# 114	C/ 33 Yseboodt, Ler	SC 33.2.6 Inart	P 232 Philips	L 12	# 116
Comment Type T	Comme	ent Status A		Pres: Yair3	Comment Typ	е Т	Comment Status A		PSE classificatior
" except for I Con-2P, I LIM-2P, T LIM-2P, and P Type (see Table 33-11), for which the PSE shall select to meet" Type 3/4 PSEs are (currently, D1.2) required to support "360uF" worth of inrush unconditionally when powering over 4P. We are likely to adopt that this will become - "180uF" for Type 3 - "360uF" for Type 4 It makes sense to give Type 4 PSEs (which may be restricted to lower classes) the option to support the lower inrush if they are powering (or are only capable of) lower Type PDs. SuggestedRemedy " except for I Con-2P, I LIM-2P, linrush, linrush-2P, T LIM-2P, and P Type (see Table 33- 11), for which the PSE shall select to meet" Response Response Status C ACCEPT IN PRINCIPLE.					Section 3.2.6 describes classification. Classification has become significantly more complicated compared to Type 2 classification: - single & dual signature - Autoclass - power demotion - long finger vs short finger The text alone + the state machine are sufficient to (eventually) figure out how it works, b providing a simple overview would help the reader. SuggestedRemedy See yseboodt_classification_overview_0915.pdf Response Response Status C ACCEPT IN PRINCIPLE. editorial liscence to put table from yseboodt_classification_overview_0915_v120.pdf in informative annex.				
for which the PSE				Type (see Table 33-11),	Add "See	Annex 33E f	or an overview of Multiple Eve	ent Physical Lay	er classification."
C/ 33 SC 33.2 Yseboodt, Lennart	.4.7	P 223 Philips	L 13	# 115	after line	13, page 237			
Comment Type T	Comme	ent Status A		PSE State Diagram					
Autoclass missing delivering power s state diagram". SuggestedRemedy				nd Type 4 PSE 4 PSE classification					
Insert editors note	: "Autoclass to	be added to state	machine".						
Response	Respons	se Status C							
ACCEPT.									

C/ 33	SC 33.2.6.3	P 237	L 48	# 117	C/ 33	SC 33.3.1	P 255	L 47	# 119
Yseboodt,	Lennart	Philips			Yseboodt	, Lennart	Philips		
Comment	Туре Т	Comment Status A		Editorial	Comment	Туре Т	Comment Status A		Editoria
	al text: "" 33B is still emp	ty, what needs to go in there	?		"NOT stand		ement only Mode A or Mode I	B are specifically	not allowed by this
Suggested	lRemedy				Suggeste	dRemedy			
"Anne:	x 33B needs info		33B:			nd to note: "PDs lowed by this sta	that are not implemented to b ndard."	e insensitive to	polarity, are specifically
		easurement method Ds need to do for reliable me	asurement		Response	9	Response Status C		
		of L1 and LLDP Autoclass			ACCE	EPT IN PRINCIPL	-E.		
- Simp Response	olified margin ca	Response Status C			Appe stand		that are not insensitive to pole	arity, are specific	cally not allowed by this
ACCE	PT IN PRINCIPI	LE.			C/ 33	SC 33.3.3.5	P 260	L 14	# 120
Chang	e 33B to 33C.				Yseboodt		Philips	L 14	# [[20
Create	Add to Append	ix 33C:			Comment	Туре Т	Comment Status A		PD State Diagram
- Expl		easurement method			"Figu	al text: "" re 33-16 PD state support.	e diagram" does not yet incluc	le Autoclass par	tial
		Ds need to do for reliable me of L1 and LLDP Autoclass	asurement		Suggeste	dRemedy			
- Sim	olified margin ca	lculation"			Insert	editors note: "PE	D state diagram needs to be ι	pdated for Auto	class."
EZ					Response	9	Response Status C		
		D			ACCE	EPT.			
C/ 33 Yseboodt,	SC 33.2.0a Lennart	P 200 Philips	L 28	# 118					
Comment	Туре Т	Comment Status A		Types					
What poweri	we really want hing.	e a column "Number of Pairs ere is to indicate if the PSE s upport* versus *used*.							
Suggested									
- Char	ige content to "N	by "Supports 4-pair power". Io, No, Allowed, Allowed, Yes is clarification is then no long							
Response		Response Status C							
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

C/ 33 SC 33.3.4 P 261 L 50	# 404	C/ 33	SC 22 2 5 2	P 267	L 40	# 400
CI 33 SC 33.3.4 P 261 L 50 Yseboodt, Lennart Philips	# 121	Vseboodt, I	SC 33.3.5.3 _ennart	P 267 Philips	L 4 U	# 123
Comment Type T Comment Status A	PD Detection	Comment 7	Гуре Т	Comment Status A		PD Classification
"A Type 2 PD presents a non-valid detection signature when in a mark ever Figure 33-16." Applies to any PD which supports Multiple event classification. Shall missing?	ent state per	AUTO_ below \	PD1 to T AUTC / Reset_th."	more power than the power 0_PD2 (as defined in Table 3)		
SuggestedRemedy		•	e	tiating through DLL.		
"A Type2, Type 3, or Type 4 PD shall present a non-valid detection signation	ure when in a	Suggested	•			
mark event state per Figure 33-16."				power than the power PD2 (as defined in Table 3)		
Response Response Status C ACCEPT IN PRINCIPLE.		below \	/ Reset_th, unle	ss the PD successfully nego ication as defined in section 3	tiates a higher p	
No changes to draft.		Response ACCEF	PT IN PRINCIPL	Response Status C F		
Already in section 33.3.5.2.1						
C/ 33 SC 33.3.5.3 P 267 L 35 Yseboodt, Lennart Philips	# 122	OBE by	148 (the exact	same comment.)		
Comment Type T Comment Status A "A PD implementing Autoclass shall not have class_sig_A of '0'." With the removal of Class 0 for Type 3/4, this 'shall' becomes redundant.	PD Classification					
SuggestedRemedy Remove sentence.						
Response Response Status C ACCEPT IN PRINCIPLE.						
Remove "In addition," from beginning of next sentence.						
EZ						

C/ 33 SC 33.3.7.6 Yseboodt, Lennart	P 275 Philips	L 34	# 124	C/ 33 Yseboodt,	SC 33.3.7.6	P 275 Philips	L 49	# 125
Comment Type T "A Type 2 PD shall me a) The PD input curren upperbound template (driven from 50 V to 52.	<i>Comment Status</i> A et both of the following: t spike shall not exceed 2.5 <i>J</i> see Figure 33-18) within 4 m 5 V at greater than 3.5 V/ms current greater than 2.5 A.\	s. During this tes	t, the PD PI voltage is	Comment Equati Is that Suggested	<i>Type</i> T fon 33-14 has th 5mA or 5 A ? <i>IRemedy</i>	Comment Status A ne constant 5.00 in without m n to this equation.	entioning the dim	Pres: Fred ⁻ ension.
b) The PD shall not ex case current draw und from V Port_PSE min	ceed the PD upperbound ten er the following conditions. T to 56 V at 2250 V/s, the sour limits the current to MDI I LI	he input voltage s ce impedance is	source drives V PD R Ch (see Table 33-1),		PT IN PRINCIF "5.00", "5.00 m.			
 a) The PD input current the PD upperbound tervisite voltage is driven from the second s	Types. ype 4 PD shall meet both of t spike shall not exceed 2.5 / nplate (see Figure 33-18) wit 50 V to 52.5 V at greater thar umber of pairsets**, and a so	A **per pairset** thin 4 ms. During n 3.5 V/ms, a sou	this test, the PD PI rce impedance of 1.5	- "If no	<i>Type</i> T le 33-19a unde long first class ng first class ev		L 23	# 126 PD MPS
case current draw und from V Port_PSE min	t**. ceed the PD upperbound ten er the following conditions. T to 56 V at 2250 V/s, the sour the voltage source limits the	he input voltage s	source drives V PD R Ch ** per pairset**	This ca functio Suggested Replac	an be replaced on. <i>IRemedy</i> ce "If no long fir	by using the PD variable 'sho st class event" by "short_mp class event (T_LCF)" by "sho	s = FALSE"	by the do_class_timing
Response ACCEPT IN PRINCIPL	Response Status C E.			Response ACCE		Response Status C		
OBE by 232				Is this	reflected in sta	te diagram.		

/ 33 SC 33.2.7.7 seboodt, Lennart	P 248 Philips	L 27	# 127	CI 33 SC Yseboodt, Lennar	33.2.4.7 t	P 226 Philips	<i>L</i> 1	# 129		
omment Type T	Comment Status D		PSE Power	Comment Type	TR	Comment Status A		PSE State Diagran		
"When connected to a power from both pairs either pairset."	a single signature PD, a Type sets before the current exceed	3 or Type 4 PSE s the "PSE uppe	should (TBD) remove bound template" on	and 1-EVENT	CLASS	and Type 4 state diagram, do not apply and can be rem	and as such th oved.			
	SuggestedRemedy Remove mentioned states and incoming and outgoing arrows. See yseboodt_state_diagram_0915.pdf									
TF to discuss if we ca										
uggestedRemedy				Response		Response Status C				
Remove TBD.				ACCEPT.		·				
roposed Response REJECT.	Response Status Z				33.2.6	Daaa	1.04	# 400		
REJECT.				C/ 33 SC Yseboodt, Lennar		P 232 Philips	L 31	# 130		
This comment was W	ITHDRAWN by the commenter	er.				•		PSE Classificatio		
Lennart will resubmit	Comment Type TR Comment Status A PSE Classific "Based on the response of the PD, the minimum power level at the output of the PSE is									
/ 33 SC 33.2.8 seboodt, Lennart	P 251 Philips	L 36	# 128	Class as shown in Equation (33-3)." This seems like an appropriate place to explain the Pclass nuance between SS and DS PDs.						
omment Type T	Comment Status A		PSE Power	SuggestedRemed	dy					
"A PSE does not initiate power provision to a link if the PSE is unable to provide the maximum power level requested by the PD based on the PD's class." (As in 802.3at)				"Based on the response of a single-signature PD, the minimum power level at the output of the PSE is P Class as shown in Equation (33-3). For dual-signature PDs P Class applies to each pairset independently."						
"A PSE shall not initia maximum power leve	Response Response Status C ACCEPT IN PRINCIPLE.									
In .at the shall was ch correct.	anged to 'does not', which is r	no longer normat	ve, but also not	Change to:						
uggestedRemedy						e of the PD, the minimum por				
"A PSE shall not initiate power provision to a link if, based on the number of classification events produced by the PSE, the PD is unable to ascertain the available amount of power based on the PDs advertised class."				Class as shown in Equation (33-3). For single-signature PDs, P Class applies to the total PD power. For Type 3/DS and Type 4/DS PDs, P Class applies to each pairset independently."						
esponse	Response Status C									
ACCEPT IN PRINCIP	LE.									
	te power provision to a link if ower based on the number of									
Add Editor's note belo	w sentence: "This text requir	es further study "								

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.	2.6	P 234	L 35	# 131	CI 33	SC	33.2.6.2	P 236	L 52	# 133	
Yseboodt, Lennart		Philips			Yseboodt, Lennart			Philips			
Comment Type 1	R	Comment Status A		Pres: Types	Comment	Туре	TR	Comment Status A		PSE Classification	
Topic: Type 4 cla "A Type 3 PSE t Physical Layer c	nat will pro	ovide class 3 or lower pow n."	ver levels may o	pt to use 1-event	treats	a single	e-signature	class event is any of Classe PD as a Type 1 PD and sh PD according to the result o	all omit the sub	sequent mark and class	
SuggestedRemedy					The P	SE sho	ould visit M	ARK_EV_LAST in this case			
"A Type 3 or Type 4 PSE that will provide class 3 or lower power levels may opt to use 1- event Physical Layer classification."					SuggestedRemedy						
esponse Response Status C ACCEPT IN PRINCIPLE.					"If the result of the first class event is any of Classes 0, 1, 2, or 3, a Type 3 or Type 4 PSE treats a single-signature PD as a Type 1 PD and shall skip all subsequent class events, transition directly to MARK_EV_LAST, and classify the PD according to the result of the first class event."						
Remove sentence. 2/33 SC 33.2.6 P 235 L 5 # 132						Add editors note on page 226 below Figure 33-9g "TODO: add arrow from CLASS_EV1_LCF to MARK_EV_LAST".					
Yseboodt, Lennart		Philips			Response			Response Status C			
Comment Type 1	R (Comment Status A		PSE Classification	ACCE	PT IN I	PRINCIPLI				
		o is detected, the PSE shares code detected over that		st the requested power	Chang	je text a	as shown i	n suggested remedy.			
Seems to force a Also mis-uses th		elivered requested power	, thereby breaki	ng power demotion.	Figure	chang	e OBE by	194.			
SuggestedRemedy "When connected to a dual-signature PD, the PSE shall treat the requested power over each pairset independently."				C/ 33 Yseboodt,		33.2.6.3 rt	P 239 Philips	<i>L</i> 1	# 134		
				Comment	Type	TR	Comment Status A		PSE Classification		
Response		Response Status C				Autoclass Table 33-10a is missing values for T_auto_pse1(max) and T_auto_pse2(min).					
ACCEPT.					Suggestea	Reme	dy				
					T_auto	pse1	33-10a: max = 1.5 min = 3.1	5			
					Response ACCE		PRINCIPLI	Response Status C			
					T_auto T_auto	o_pse1 o_pse2	min = 1.4 max = 1.6 min = 3.1 max = 3.5				

CI 33 SC 33.2.6.3 P 239 L 19 # 135		
Yseboodt, Lennart Philips	CI 33 SC 33.2.3 P 209 Yseboodt, Lennart Philips	L 27 # 138
Comment Type TR Comment Status A Pres: Autoclass An improved calculation for Autoclass margin is described in yseboodt_1_0915.pdf	Comment Type TR Comment Status A "Type 3 and Type 4 PSEs may operate simultaneously o	Type
SuggestedRemedy See changes in yseboodt_1_0915.pdf	Conditions apply, this statement is not always true. SuggestedRemedy	
Response Response Status C ACCEPT IN PRINCIPLE.	"Type 3 and Type 4 PSEs may operate simultaneously o requirements of Section 33.2.5.6 are met."	on both Alternatives, when the
adopt changes in yseboodt_1_0915.pdf except for items 1 and 2 of Table 33-10A	Response Response Status C ACCEPT.	
C/ 33 SC 33.2.0a P 200 L 50 # 136 Yseboodt, Lennart Philips	Cl 33 SC 33.2.4.4 P 214	L 52 # 139
Comment Type TR Comment Status A Types	Yseboodt, Lennart Philips	
"Type 1 or 2 PDs may be powered using one pairset."	Comment Type TR Comment Status A	Pres: Type
Any PD may be powered over 2P, not just Type 1 or Type 2 PDs.	Topic: Type 4 classrange	
SuggestedRemedy Remove sentence.	"Type 3 and Type 4 PSEs shall issue no more class even of supporting. For example, this would apply to a PSE that management mode or a Type 3 PSE that has a hardware	at is oversubscribed and in power
Response Response Status C ACCEPT IN PRINCIPLE.	Also applies to Type 4.	
	SuggestedRemedy	
OBE by 118.	"Type 3 and Type 4 PSEs shall issue no more class even of supporting. For example, this would apply to a PSE that management mode or a Type 3 or Type 4 PSE that has	at is oversubscribed and in power
CI 33 SC 33.2.3 P 209 L 20 # 137	of supporting. For example, this would apply to a PSE the management mode or a Type 3 or Type 4 PSE that has	at is oversubscribed and in power
C/ 33 SC 33.2.3 P 209 L 20 # 137 Yseboodt, Lennart Philips	of supporting. For example, this would apply to a PSE the management mode or a Type 3 or Type 4 PSE that has Response Response Status C	at is oversubscribed and in power
CI 33 SC 33.2.3 P 209 L 20 # 137 Yseboodt, Lennart Philips Comment Type TR Comment Status A	of supporting. For example, this would apply to a PSE the management mode or a Type 3 or Type 4 PSE that has	at is oversubscribed and in power
Cl 33 SC 33.2.3 P 209 L 20 # 137 Vseboodt, Lennart Philips Comment Type TR Comment Status A "PSEs may choose the polarity choices associated with Alternative A or Alternative B listed	of supporting. For example, this would apply to a PSE the management mode or a Type 3 or Type 4 PSE that has Response Response Status C	at is oversubscribed and in power
Cl 33 SC 33.2.3 P 209 L 20 # 137 Vseboodt, Lennart Philips Philips Comment Type TR Comment Status A "PSEs may choose the polarity choices associated with Alternative A or Alternative B listed in Table 33-2a corresponding with their Type." Here and the status of the	of supporting. For example, this would apply to a PSE that management mode or a Type 3 or Type 4 PSE that has a Response Response C ACCEPT.	at is oversubscribed and in power a hardware limitation."
CI 33 SC 33.2.3 P 209 L 20 # 137 Yseboodt, Lennart Philips Comment Type TR Comment Status A "PSEs may choose the polarity choices associated with Alternative A or Alternative B listed in Table 33-2a corresponding with their Type." SuggestedRemedy	of supporting. For example, this would apply to a PSE that management mode or a Type 3 or Type 4 PSE that has a Response Response Status C ACCEPT. C/ 33 SC 33.2.4.5 P 215 Yseboodt, Lennart Philips	at is oversubscribed and in power a hardware limitation."
Cl 33 SC 33.2.3 P 209 L 20 # 137 Yseboodt, Lennart Philips Philips Comment Type TR Comment Status A "PSEs may choose the polarity choices associated with Alternative A or Alternative B listed in Table 33-2a corresponding with their Type." Image: Constant of the status of the sta	of supporting. For example, this would apply to a PSE that management mode or a Type 3 or Type 4 PSE that has a Response Response Status C ACCEPT. CI 33 SC 33.2.4.5 P 215 Yseboodt, Lennart Philips Comment Type TR Comment Status A We need additional Autoclass signature timers (eg. Tacs	at is oversubscribed and in power a hardware limitation." <i>L</i> 9 # <u>140</u> <i>Editoria</i> s Tab. 33-17a) in PSE and PD
Cl 33 SC 33.2.3 P 209 L 20 # 137 Yseboodt, Lennart Philips Comment Type TR Comment Status A "PSEs may choose the polarity choices associated with Alternative A or Alternative B listed in Table 33-2a corresponding with their Type." SuggestedRemedy Statement is too weak, 'shall' missing. "PSEs shall use permitted polarity configurations associated with Alternative A or Alternative B listed in Table 33-2a corresponding with their Type."	of supporting. For example, this would apply to a PSE that management mode or a Type 3 or Type 4 PSE that has a Response Response Status C ACCEPT. Cl 33 SC 33.2.4.5 P 215 Yseboodt, Lennart Philips Comment Type TR Comment Status A We need additional Autoclass signature timers (eg. Tacs state machines to distinguish short and long first finger a	at is oversubscribed and in power a hardware limitation." <i>L</i> 9 # <u>140</u> <i>Editoria</i> s Tab. 33-17a) in PSE and PD
Cl 33 SC 33.2.3 P 209 L 20 # 137 Yseboodt, Lennart Philips Comment Type TR Comment Status A "PSEs may choose the polarity choices associated with Alternative A or Alternative B listed in Table 33-2a corresponding with their Type." SuggestedRemedy Statement is too weak, 'shall' missing. "PSEs shall use permitted polarity configurations associated with Alternative A or Alternative B listed in Table 33-2a corresponding with their Type."	of supporting. For example, this would apply to a PSE that management mode or a Type 3 or Type 4 PSE that has a Response Response Status C ACCEPT. CI 33 SC 33.2.4.5 P 215 Yseboodt, Lennart Philips Comment Type TR Comment Status A We need additional Autoclass signature timers (eg. Tacs	at is oversubscribed and in power a hardware limitation." <i>L</i> 9 # <u>140</u> <i>Editoria</i> s Tab. 33-17a) in PSE and PD
Cl 33 SC 33.2.3 P 209 L 20 # 137 Yseboodt, Lennart Philips Comment Type TR Comment Status A "PSEs may choose the polarity choices associated with Alternative A or Alternative B listed in Table 33-2a corresponding with their Type." SuggestedRemedy Statement is too weak, 'shall' missing. "PSEs shall use permitted polarity configurations associated with Alternative A or Alternative B listed in Table 33-2a corresponding with their Type." Response Response Status C	of supporting. For example, this would apply to a PSE that management mode or a Type 3 or Type 4 PSE that has a Response Response Status C ACCEPT. Cl 33 SC 33.2.4.5 P 215 Yseboodt, Lennart Philips Comment Type TR Comment Status A We need additional Autoclass signature timers (eg. Tacs state machines to distinguish short and long first finger a SuggestedRemedy Insert editors note: "Timers to be added for Autoclass" Response Response Status C	at is oversubscribed and in power a hardware limitation." <i>L</i> 9 # <u>140</u> <i>Editoria</i> s Tab. 33-17a) in PSE and PD
Cl 33 SC 33.2.3 P 209 L 20 # 137 Yseboodt, Lennart Philips Comment Type TR Comment Status A "PSEs may choose the polarity choices associated with Alternative A or Alternative B listed in Table 33-2a corresponding with their Type." SuggestedRemedy Statement is too weak, 'shall' missing. "PSEs shall use permitted polarity configurations associated with Alternative A or Alternative B listed in Table 33-2a corresponding with their Type." Response Response Status C ACCEPT. ACCEPT. Accept.	of supporting. For example, this would apply to a PSE that has a management mode or a Type 3 or Type 4 PSE that has a Response Response Status C ACCEPT. CI 33 SC 33.2.4.5 P215 Yseboodt, Lennart Philips Comment Type TR Comment Status A We need additional Autoclass signature timers (eg. Tacs state machines to distinguish short and long first finger a SuggestedRemedy Insert editors note: "Timers to be added for Autoclass"	at is oversubscribed and in power a hardware limitation." <i>L</i> 9 # <u>140</u> <i>Editoria</i> s Tab. 33-17a) in PSE and PD

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 Yseboodt, Lennart	3.2.4.6 <i>P</i> 216 Philips	L 29	# 141	CI 33 SC Yseboodt, Lenna	33.3.5 art	P 264 Philips	<i>L</i> 1	# 143
Comment Type	TR Comment Status A		Editorial	Comment Type	TR	Comment Status A		Editorial
Type 1 PSE that requests a highe	power: This variable indicates the p t measures a Class 4 signature as er class than a Type 3 or Type 4 PS	signs that PD to C SE can support, th	lass 0. When a PD	"A PD shall 8." Wrong Tabl		ist one of the allowable classi	fication permut	tations listed in Table 33-
the PD class 3,	4, or 6, whichever is the highest that	at it can support."		SuggestedReme	edy			
	e 'shall' statement is in 33.2.6.2, pa	ge 237, line 4-5.		Change to: ' in Table 33-		meet at least one of the allow	wed classification	on configurations listed
SuggestedRemedy	- DD regulate a bigher class there	- T		Response		Response Status C		
	a PD requests a higher class than ssign the PD class 3, 4, or 6, which			ACCEPT.		, -		
Response	Response Status C			EZ				
ACCEPT IN PR	INCIPLE.							
	en a PD requests a higher class tha s the PD class 3, 4, or 6, whichever			CI 33 SC Yseboodt, Lenna	33.3.5.1 art	P 265 Philips	L 6	# 144
		5		Comment Type	TR	Comment Status A		PD Classification
	3.2.9.1.2 P 254	L 27	# 142	Topic: Class	s 0 / Type 3	removal		
		•		Topic: Class "Type 3 PDs	0 / Type 3 operating	removal with a maximum power draw		to class 0-3 respond to
C/ 33 SC 33 Yseboodt, Lennart	3.2.9.1.2 <i>P</i> 254	•		Topic: Class "Type 3 PDs	0 / Type 3 operating	removal		to class 0-3 respond to
Cl 33 SC 33 Yseboodt, Lennart Comment Type T The construction	3.2.9.1.2 P 254 Philips TR Comment Status A n "the sum of I port-2P of both pairs	L 27	# 142 Editorial	Topic: Class "Type 3 PDs	3 0 / Type 3 3 operating 3 offication b	removal with a maximum power draw y returning a Class signature		to class 0-3 respond to
Cl 33 SC 33 Yseboodt, Lennart Comment Type T The construction times in 33.2.9.1	3.2.9.1.2 P 254 Philips TR Comment Status A n "the sum of I port-2P of both pairs 1.2	L 27	# 142 Editorial polarity" is used 6	Topic: Class "Type 3 PDs 1-Event class	0 / Type 3 operating sification b not have o	removal with a maximum power draw y returning a Class signature		to class 0-3 respond to
Cl 33 SC 33 Yseboodt, Lennart Comment Type T The construction times in 33.2.9.1	3.2.9.1.2 P 254 Philips TR Comment Status A n "the sum of I port-2P of both pairs	L 27	# 142 Editorial polarity" is used 6	Topic: Class "Type 3 PDs 1-Event class Type 3 does SuggestedReme "Type 3 PDs	0 / Type 3 operating sification b not have o edy operating	removal with a maximum power draw y returning a Class signature class 0. with a maximum power draw	0, 1, 2, or 3 in corresponding	to class 0-3 respond to accordance"
Cl 33 SC 33 Yseboodt, Lennart Comment Type T The construction times in 33.2.9.1 'pairsets of the s SuggestedRemedy	3.2.9.1.2 P 254 Philips TR Comment Status A n "the sum of I port-2P of both pairs 1.2	L 27 Sets of the same p e. This should be	# 142 Editorial polarity" is used 6 'pairs'.	Topic: Class "Type 3 PDs 1-Event clas Type 3 does SuggestedReme "Type 3 PDs 1-Event clas	0 / Type 3 operating sification b not have o edy operating	removal with a maximum power draw y returning a Class signature class 0. with a maximum power draw y returning a Class signature	0, 1, 2, or 3 in corresponding	to class 0-3 respond to accordance"
Cl 33 SC 33 Yseboodt, Lennart Comment Type T The construction times in 33.2.9.1 'pairsets of the s SuggestedRemedy Replace by "the	3.2.9.1.2 <i>P</i> 254 Philips TR <i>Comment Status</i> A n "the sum of I port-2P of both pairs 1.2 same polarity' does not make sense	L 27 Sets of the same p e. This should be	# 142 Editorial polarity" is used 6 'pairs'.	Topic: Class "Type 3 PDs 1-Event clas Type 3 does SuggestedReme "Type 3 PDs 1-Event clas Response	0 / Type 3 operating sification b not have o edy operating	removal with a maximum power draw y returning a Class signature class 0. with a maximum power draw	0, 1, 2, or 3 in corresponding	to class 0-3 respond to accordance"
Cl 33 SC 33 Yseboodt, Lennart Comment Type T The construction times in 33.2.9.1 'pairsets of the s SuggestedRemedy Replace by "the	3.2.9.1.2 <i>P</i> 254 Philips TR <i>Comment Status</i> A n "the sum of I port-2P of both pairs 1.2 same polarity' does not make sense	L 27 Sets of the same p e. This should be	# 142 Editorial polarity" is used 6 'pairs'.	Topic: Class "Type 3 PDs 1-Event clas Type 3 does SuggestedReme "Type 3 PDs 1-Event clas Response ACCEPT.	0 / Type 3 operating sification b not have o edy operating	removal with a maximum power draw y returning a Class signature class 0. with a maximum power draw y returning a Class signature	0, 1, 2, or 3 in corresponding	to class 0-3 respond to accordance"
Cl 33 SC 33 Yseboodt, Lennart Comment Type T The construction times in 33.2.9.1 'pairsets of the s SuggestedRemedy Replace by "the Response	3.2.9.1.2 <i>P</i> 254 Philips TR <i>Comment Status</i> A n "the sum of I port-2P of both pairs 1.2 same polarity' does not make sense	L 27 Sets of the same p e. This should be	# 142 Editorial polarity" is used 6 'pairs'.	Topic: Class "Type 3 PDs 1-Event clas Type 3 does SuggestedReme "Type 3 PDs 1-Event clas Response	0 / Type 3 operating sification b not have o edy operating	removal with a maximum power draw y returning a Class signature class 0. with a maximum power draw y returning a Class signature	0, 1, 2, or 3 in corresponding	to class 0-3 respond to accordance"

CI 33 SC Yseboodt, Lenna	C 33.3.5.2 hart	P 266 Philips	L 38	# 145	C/ 33 Yseboodt,		3.3.5.2	P 266 Philips	L 38	# 147
Comment Type Topic: Class	s 0 / Type 3			PD Classification		-signature	PDs shall	Comment Status A use only class 0 to 5 pow		
SuggestedRem	edy	all use only class 0 to 5 pow			signat	ture PDs i	may use di	set is the power requested fferent classsignature per with single load dual-signa	pairset. It is not	
Response ACCEPT IN		Response Status C			Remo Suggestee			ner improvement needed.		
OBE by 147	-	Ε.			"Dual- The c	-signature lass adve	PDs shall rtised on e	advertise a class signatur ach pairset is the power re advertise a different class	equested by the	PD on that pairset.
CI 33 SC Yseboodt, Lenn	C 33.3.5.2 art	P 266 Philips	L 13	# 146	recom		to use diffe	rent class signatures if th		
Comment Type Topic: Class Table 33-16	s 0 / Type 3	Comment Status A removal s 0 for Type 3 / Single-signat	ure	PD Classification	Response ACCE		I	Response Status C		
SuggestedReme Remove rov	edy				C/ 33 Yseboodt,		3.3.5.3	P 267 Philips	L 40	# 148
Response ACCEPT. EZ		Response Status C			AUTC	PD shall r	not draw me T AUTO_P	Comment Status A bre power than the power D2 (as defined in Table 3		
					This p	orecludes	re-negotiat	ing through DLL.		
					AUTC below	PD shall r 0_PD1 to V Reset_	not draw me T AUTO_P _th, unless	ore power than the power ID2 (as defined in Table 3 the PD successfully nego tion as defined in section	3-17a) at any po tiates a higher p	int until V Port_PD falls
					Response ACCE		RINCIPLE.	Response Status C		
					AUTC below adver	D_PD1 to V Reset_	T AUTO_P _th, unless	ore power than the power D2 (as defined in Table 3 the PD successfully nego classification, through Dat	3-17a) at any po tiates a higher p	int until V Port_PD falls ower level, up to the

C/ 33 Yseboodt,	SC 33 Lennart	.3.7.3	P 271 Philips	L 41	# 149	C/ 33 Yseboodt,		33.2.7	P 241 Philips	L 17	# 152
Comment		ſR	Comment Status A		PD Power	Comment		TR	Comment Status D		Pres: Yair
"After -		2P min,	the PD shall meet P Class_F	D as specified		Table 3	33-11,	ltem 7, Ic	ut-2P.		
	T Inrush-2		Class 6 or Class 8 PDs shall _PD as specified in Table 33		the PSE PI; all other	defined	d by Ico rrect Ic	on in 802. owerboun	which the PSE may optionall 3-2012. d now would be Icon-2P-unb.		
Response ACCEI 		.3.7.6	Response Status C	L 17	# [150	- In its	er than curren		tion, we can refer to Icon-2P defined per Type, which res		eing smaller than Icon-
Yseboodt,	Lennart		Philips					n in 2P mo			
Comment [·]	Type 1	ΓR	Comment Status A		PD Power	Suggested	Remed	dy			
"Type	-		removal PDs with class 0 to 4 shall"			Add ec	litors n	ote below	e of Icut-2p for Type 3 and Ty 7 Table 33-11 "Icut-2P min sh te which is currently TBD. "		
Suggested Tvpe:		inature l	PDs with class 1 to 4 shall"			Note: s	somew	hat less b	rokener, needs further work	(does not work f	or dual-signature, have
Response	-	, 	Response Status C			not fixe				·	C
ACCEI						Proposed I	,	nse	Response Status Z		
EZ						REJEC				~ *	
Cl 79 Yseboodt,		.3.2.4.1	P 341 Philips	L 33	# 151	This pa	aramet	er should	THDRAWN by the commenter be fixed, but the min values ses active current balancing,	you suggest are	
Unfortu	ield shall unately th	e 'powe	Comment Status A ccording to Table 79-4." r type' field only supports Typ device set this field ?	e 1/2 PDs and	DLL PSEs.		,	Discuss			
Suggested	IRemedy										
Type 3	ield shall 3 or Type	4 PSEs	ccording to Table 79-4. shall set this field to the values shall set this field to the value shall set this field to the values shall set this field to the value shall set the value shall set this field to the value shall set this field to the value shall set the value shall set the value shall set the value set								
Response ACCEI			Response Status C								

C/ 33 Yseboodt	SC 33.2.7.4 t, Lennart	P 245 Philips	L 18	# 153		CI 33 Yseboodt,	SC 33.2.7.4 Lennart	<i>P</i> 245 Philips	L 21	# 154
Comment "PSE connu 4a." Probl - Dou - I Cu Suggeste "PSE Table PSEs Table (Note (Note	<i>t Type</i> TR is shall meet I Co ected to a single- lems: es not address du on-2P no longer e <i>adRemedy</i> is connected to a e 33-11. s connected to a co e 33-11." e: this works, beca e: we need to spece	Comment Status A n as specified in Table 33-11 signature PD shall meet I Co nal signature	n-2P as specified eet Icon and Icon Icon on each pa independent for o of dual-signature,	d in Table 33-11 ite -2P_unb as specifi irset as specified ir dual-signature PDs	ed in 1	Comment "I Con-2 of san Only a Repla Suggested "When same require unbala When has to	Type TR is the total currer P_unb is the may ne polarity under applies to single-s ce E2EP2PRunb dRemedy n connected to sim polarity that a PS ed to support ove ance conditions, a connected to a do support."	Comment Status A nt of both pairs with the san imum current the PSE is re E2EP2PRunb condition in t	equired to suppor he POWER_ON s the total current _unb is the maxim polarity under ma the POWER_OI D is the current of	t over one of the pairs state." t of both pairs with the mum current the PSE is ximum current N state. of a pairset that a PSE
	EPT IN PRINCIPI		act loop and loop		ad in	things <i>Response</i> ACCE		e. Response Status C		
Table PSEs	e 33-11.	single-signature PD shall me Jual-signature PD shall meet				same require	polarity that a PS ed to support ove	ngle-signature PDs, I Con is E has to support. I Con-2P r any pair of the same polar in 33.2.7.4.1, in the POWE	_unb is the minin rity under maxim	num current the PSE is

When connected to a dual-signature PD, I Con-TBD is the minimum current of a pairset that a PSE has to support."

C/ 33 SC 33.2.7.4 P 245 L 40 # 155 Yseboodt, Lennart Philips	C/ 33 SC 33.2.7.4.1 P 246 L 11 # 156 Yseboodt, Lennart Philips
Comment Type TR Comment Status A Editorial	Comment Type TR Comment Status A Icor
"K is the ratio between I Peak-2P due to system end to end pair-to-pair current unbalance effect" "K=0 for two pair systems (Type 1 and Type 2 systems). The value of K which is based on curve fit and is dimensionless, for a Type 3 and Type 4 system that operates as 4-pair	"I con-2P-unb maximum is the average pair current due to E2EP2PRunb that is higher than I con-2P specified in Table 33-11." There is no I con-2P-unb maximum. Icon-2P no longer exists.
system is given by Equation (33-4a)."	SuggestedRemedy
Main issue: K=0 also for dual-signature PDs. SuggestedRemedy	"I con-2P-unb is the pairset current in the case of maximum unbalance and will be higher than half of Icon."
Reword & fix: Replace	Response Response Status C ACCEPT IN PRINCIPLE.
"K=0 for two pair systems (Type 1 and Type 2 systems). The value of K which is based on curve fit and is dimensionless, for a Type 3 and Type 4 system that operates as 4-pair system is given by Equation (33-4a)."	"I con-2P-unb is the pairset current in the case of maximum unbalance and will be higher than Icon/2."
By "The value of K is based on a curve fit and is dimensionless. For Type 3 and Type 4 PSEs, operating in 4-pair mode and connected to single-signature PDs, the value of K is given by	C/ 33 SC 33.2.7.5 P 246 L 49 # 157 Yseboodt, Lennart Philips
Equation 33-4a. In all other cases the value of K is 0." Response Response Status C ACCEPT IN PRINCIPLE. Yair to give presentation in Oct.	Comment Type TR Comment Status A PSE Inrush "POWER_UP mode occurs on each pairset between the PSE's transition to the POWER_UP state on that pairset and either the expiration of T Inrush-2P or the conclusion of PD inrush currents on that pairset (see 33.3.7.3)." PSE Inrush
Replace text with:	For Type 3 and Type 4 PSEs, the conclusion of the PD inrush current is not cause to transition to POWER_ON.
"The value of KIpeak is based on a curve fit and is dimensionless. For Type 3 and Type 4 PSEs, operating in 4-pair mode and connected to single-signature PDs, the value of KIpeak is given by Equation 33-4a. For all other cases the value of KIpeak is 0. DS PDs TBD."	SuggestedRemedy "POWER_UP mode occurs on each pairset between the PSE's transition to the POWER_UP state on that pairset and either the expiration of T Inrush-2P or, for Type 1 and Type 2 PSEs that make use of legacy powerup, the conclusion of PD inrush currents on that pairset (see 33.3.7.3)."
Change K to Kipeak in equation 33-4a.	Response Response Status C ACCEPT.

C/ 33 SC 33.2.7.7 Yseboodt, Lennart	P 249 Philips	L 28	# 158	C/ 33 Yseboodt,	SC 33.2.7.7 Lennart	P 249 Philips	<i>L</i> 1	# 160
Comment Type TR	Comment Status A		Pres: Lennart2	Comment	Type TR	Comment Status A		Pres: Lennarta
In Figure 33-14, x axis, the Followed by a marked time For Type 4, T_LIM-2P(min	e with value T_LIM-2P(mi	n).		In con being	Class depender			
SuggestedRemedy See presentation ysebood	t_2_0915.pdf on Figure 3	3-14 for replacem	ent figures.	to sup	port comparativ	do not want Type 3/4 PSEs ely to Tlim(min) in the lowerbo		to low power, to have
Response R ACCEPT IN PRINCIPLE. Adopt yseboodt_2_0915_v	Response Status C	with the exception	of section 33.2.7.4.	Fig 33	- B-14 also uses II ide effect is that	im(min) in the upperbound that upperbound limit is no	template, for t > Tc	
C/ 33 SC 33.2.7.7 /seboodt, Lennart	P 249 Philips	L 1	# 159	"Comi		ainst D1.1: because this is not necess ws PSEs to use a single cu		
Comment Type TR	Comment Status A		Pres: Lennart2	Suggestee	dRemedy			
This Figure 33-14 now wor This has the effect to doub						s section of the upperbound something new, Ilim(max),		by another parameter.
mode. The issue is with the 1.75A	constant in the upperbo	und template.		I am s	suggesting lcut(r	max) in the presentation.		
In 802.3-2012 this was cho IEC 60950 lists a maximun = 2.63A or 1.3A per pairse	n Isc for Class 2 power se	-	Vmax = 150W / 57V	Response		boodt_2_0915.pdf on Figure Response Status C	e 33-14 for replacer	ment figures.
TF to discuss if we need to	change 1.75A to 1.3A.				oy 158			
Note: - Adopting 1.3A limit introd - Discussion with IEC expe				C/ 33 Yseboodt,	SC 33.2.7.7 Lennart	P 249 Philips	L 1	# 161
SuggestedRemedy				Comment	Type TR	Comment Status A		Pres: Lennarta
See presentation yseboodt	t_2_0915.pdf on Figure 3	3-14 for replacem	ent figures.			a TBD. It is there because t	his is a very tricky	to define value with our
Response R	Response Status C				nt set of parame	ters.		
ACCEPT IN PRINCIPLE. OBE by 158					werbound TBD	is Icon - 'the current in the or the reader to also show t		nce in this Figure.
				See p	resentation vsel	boodt_2_0915.pdf on Figure	e 33-14 for replacer	ment figures.
				Response		Response Status C		ŭ
				OBE t	oy 158			
TVDE: TP/technical required							mont ID 161	Page 43 of 72

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

7.	SC 33.4.	P 281	L 37	# 162	C/ 33 SC 33.3.5	P 263	L 43	# 165
Zimmerman, G	0	CME Consulting			Zimmerman, George	CME Consulti	ng	
While this not consis	33-16"for a is the spec fo stent with the s	Comment Status A 100 Mb/s or greater PHY". or MDI impedance balance for spec for 10GBASE-T in Clause e 2.5G/5G PHYs will be here)		AES nd 1000BASE-T, it is	maximum power tha	Comment Status A based on power. The Physical t the PD draws across all input v s meaningless and needs clarific	voltages and o	perational modes."
SuggestedRer	medy				that needs to be said	1.		
"Bal(f) >=	48 dB (1<=f<	i 55-55 in 802.3bx d3p2) 30 MHz) (f/50) (30<= f < 500 MHz)				assified based on power."		
	BASE-T PHY.				Response ACCEPT.	Response Status C		
ACCEPT.					EZ			
C/ 33 S Zimmerman, G	SC 33.1.3 George	P 197 CME Consulting	L 39	# 163	Cl 33 SC 33.3.7 Zimmerman, George	P 268 CME Consulti	L 29 ng	# 166
		es 1.4.324,1.4.337, 1.4.256, 1.	4.269 need to	be marked as External		instruction for Table 33-18 has	gotten disass	ociated from the table
(forest gre SuggestedRer See comm	medy				"Change Table 33-1 SuggestedRemedy Wrestle with frame s	a as follows:" o the editing instruction stays w	ith the table.	
SuggestedRer	medy nent.	Response Status C			SuggestedRemedy		ith the table.	
SuggestedRer See comm Response	medy nent.	Response Status C			SuggestedRemedy Wrestle with frame s Response	o the editing instruction stays w	ith the table.	
SuggestedRer See comm Response ACCEPT. EZ	medy nent. SC 33.3.2	Response Status C P 256 CME Consulting	L 51	# [<u>164</u>	SuggestedRemedy Wrestle with frame s Response ACCEPT.	o the editing instruction stays w	ith the table.	
SuggestedRer See comm Response ACCEPT. EZ C/ 33 S Zimmerman, G Comment Typ	medy nent. SC 33.3.2 George	Р 256		# 164 Editorial	SuggestedRemedy Wrestle with frame s Response ACCEPT.	o the editing instruction stays w	ith the table.	
SuggestedRer See comm Response ACCEPT. EZ CI 33 S Zimmerman, C Comment Type missing sp SuggestedRer	medy nent. SC 33.3.2 George pece "atleast"	P 256 CME Consulting Comment Status A			SuggestedRemedy Wrestle with frame s Response ACCEPT.	o the editing instruction stays w	ith the table.	
SuggestedRer See comm Response ACCEPT. EZ CI 33 S Zimmerman, C Comment Type missing sp SuggestedRer replace "a Response	medy nent. SC 33.3.2 George be E pace "atleast" medy	P 256 CME Consulting Comment Status A t least" Response Status C			SuggestedRemedy Wrestle with frame s Response ACCEPT.	o the editing instruction stays w	ith the table.	
SuggestedRer See comm Response ACCEPT. EZ CI 33 S Zimmerman, C Comment Type missing sp SuggestedRer replace "a Response	medy nent. SC 33.3.2 George pace "atleast" medy itleast" with "a IN PRINCIPLE	P 256 CME Consulting Comment Status A t least" Response Status C			SuggestedRemedy Wrestle with frame s Response ACCEPT.	o the editing instruction stays w	ith the table.	

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

% 99 SC P1 L 24 # 167 immerman, George CME Consulting	C/ 33 SC 33.1.1 P 196 L 1 # 169
immerman, George CME Consulting	
	Zimmerman, George CME Consulting
Comment Type ER Comment Status A Front Matter	Comment Type ER Comment Status A Editorial
 (to minimize comments, all related front matter stuff is here) Page 1 line 24: Need to fill in purpose of amendment from PAR, Page 1 line 25: status as "Task Force Review". Page 2, abstract and keywords. Page 3, line 36, this is 802.3bt-20XX Page 4 line 27, this is 802.3bt-20XX Page 4 line 28, include a brief summary of the changes, generally aligned with the PAR. 	 Previous editing instruction (P195 L 41) has clause 33.1.1 deleted - I assume this is correct. However P196 L1 and P196 L12 have edits to change the text in 33.1.1 items (c) & (d), which are now unnecessary. SuggestedRemedy Remove edits and editing instructions within 33.1.1, and show all of existing 33.1.1, including items c & d as it is in 802.3bxD3p2 (now 802.3-2015?) in strikeout.
uggestedRemedy	Response Response Status C
See comment	ACCEPT.
Response Response Status C ACCEPT.	EZ
	Cl 33 SC 33.3.2 P 257 L 1 # 170
X 30 SC 30.1 P 30 L 1 # 168	Zimmerman, George CME Consulting
immerman, George CME Consulting	Comment Type ER Comment Status A Editoria
Comment Type ER Comment Status A Editorial No need to have all of clause 30 here. It appears only 30.9, 30.10, 30.12.2.1 and 30.12.3.1 are the only sections modified. Solution only 30.12.2.1 and 30.12.3.1 are the only sections modified. For clarity, include 30.9 & 30.10, but really only the modified sections will be needed for WG ballot - 30.12.2.1 and 30.12.3.1. Solution of the section of the sectin of the section of the sectin of the sectin	Most all of Section 33.3.2 appears to be informative - summarizing requirements and allowed type/classification/LLDP requirements where the normative requiremetns are elsewhere (if they aren't then the section is missing the 'shall' statements and any PICs). However, at the end of the section there are two requirements (PD5 (underpowered PDs) and PD6 (25.4.5 compliance) which seem misplaced. These make the informative nature of the new text unclear (hence why this isn't a maintenance request), and the informative text needs to be separated from the normative text.
Delete 30.1 through start of 30.9 (delete P30 L3 - 163 L 2) Delete 30.11 through 30.12.2.1.5 (delete P169 L28 - 177 L50)	text SuggestedRemedy
Delete 30.13 - 30. through end of clause 30 inclusion(delete P192 L7 - 194 L20)	Add (informative) to the title of the section.
Pesponse Response Status C	(note the two normative requirements are moved elsewhere)
ACCEPT.	Response Response Status C
EZ	ACCEPT IN PRINCIPLE.
	Do not add informative
	Add editor's note: Need to move two normative requirements from section 33.3.2"

CI 33 SC 33.3.7.6	P 275	L 54	# 171	C/ 33	SC 33.3.7.6	P 275	L 17	# 173
Zimmerman, George	CME Consulti	ng		Zimmerman,	George	CME Co	nsulting	
Comment Type ER	Comment Status A		Pres: Fred1	Comment Ty	pe T	Comment Status A		PD Powe
"is the per pairset curre the preceding text says	ent limit at the MDI (MDI I_LIN s this is MDI I_LIM-2P.	И)"		requirem	ent for Cport	single-signature Type 3 P as defined in Table 33–1		
SuggestedRemedy				class 0 to	o 4 shall meet			
Either: remove the -2P or change line 54 to rea	notation for MDI I_LIM-2P (p ad MDI I_LIM-2P	referred)				-13a, there are no class (ss 0 Type 1 PDs)) Type 3 PDs. (the	first sentence is OK
Response	Response Status C			SuggestedRe	emedy			
	.E.			change " class 1 to		signature PDs with class) to 4" to "Type 3 d	ual-signature PDs with
OBE by 232				Response		Response Status C		
CI 33 SC 33.3.1	P 255	L 19	# 172	ACCEPT	IN PRINCIPI	LE.		
Zimmerman, George	CME Consulti	ng			150			
Comment Type T	Comment Status A		Editorial	OBE by 1	150.			
"The two conductor set	ts are named Mode A and Mo	ode B."		EZ				
we now call these "pair	reate" in fact the two contor	oos immodiatol	v proceeding this and	C/ 33	SC 33.3.5.1	P 264	L 52	# 174
	rsets" - in fact, the two senten Switching back to conductor				SC 33.3.5.1 George	P 264 CME Col	L 52 Sulting	# 174
use the term pairsets.	rsets" - in fact, the two senter Switching back to conductor difference where I think there	sets is confusing	g and makes the	Zimmerman,	George	CME Co	-	
use the term pairsets.	Switching back to conductor	sets is confusing	g and makes the	Zimmerman, Comment Ty	George pe T	CME Co Comment Status A	-	
use the term pairsets. reader think there is a c SuggestedRemedy	Switching back to conductor	sets is confusing should be none	g and makes the	Zimmerman, Comment Tyj "Class 0	George be T is the default	CME Co Comment Status A	nsulting	PD Classificatio
use the term pairsets. reader think there is a c SuggestedRemedy	Switching back to conductor difference where I think there	sets is confusing should be none	g and makes the	Zimmerman, Comment Typ "Class 0 Now that classifica	George be T is the default we have Typ tion class sig	CME Co Comment Status A for PDs". e 3 and Type 4, which ar natures, as described all	nsulting e required to prese over the place and	PD Classification nt at least 1-event summarized in Table 33-
use the term pairsets. reader think there is a SuggestedRemedy replace "conductor sets	Switching back to conductor difference where I think there s" with "pairsets" or clarify wh	sets is confusing should be none	g and makes the	Zimmerman, Comment Tyj "Class 0 Now that classifica 13a, Clas	George be T is the default we have Typ tion class sig as 0 is NOT th	CME Co Comment Status A for PDs". e 3 and Type 4, which ar natures, as described all ne default for PDs. Class	e required to prese over the place and 0 is the default tha	PD Classification nt at least 1-event summarized in Table 33- t a PSE assumes. this
use the term pairsets. reader think there is a c SuggestedRemedy replace "conductor sets Response	Switching back to conductor difference where I think there s" with "pairsets" or clarify wh	sets is confusing should be none	g and makes the	Zimmerman, Comment Tyj "Class 0 Now that classifica 13a, Clas clause sp This state Additiona	George be T is the default we have Typ tion class sig as 0 is NOT the becifies the Ple ement needs ally, Table 33-	CME Co Comment Status A for PDs". e 3 and Type 4, which ar natures, as described all	e required to prese over the place and 0 is the default tha e only allowed for Ty	PD Classification nt at least 1-event summarized in Table 33- t a PSE assumes. this ype 1 PDs.
use the term pairsets. reader think there is a c SuggestedRemedy replace "conductor sets Response ACCEPT.	Switching back to conductor difference where I think there s" with "pairsets" or clarify wh	sets is confusing should be none	g and makes the	Zimmerman, Comment Tyj "Class 0 Now that classifica 13a, Clas clause sp This state Additiona	George be T is the default we have Typ tion class sig so 0 is NOT th becifies the Pl ement needs ally, Table 33- a class sig, ho	CME Con Comment Status A for PDs". e 3 and Type 4, which ar natures, as described all ne default for PDs. Class D. Class 0 appears to be to be clarified. 16a appears to allow class	e required to prese over the place and 0 is the default tha e only allowed for Ty	PD Classification nt at least 1-event summarized in Table 33- t a PSE assumes. this ype 1 PDs.
use the term pairsets. reader think there is a c SuggestedRemedy replace "conductor sets Response ACCEPT.	Switching back to conductor difference where I think there s" with "pairsets" or clarify wh	sets is confusing should be none	g and makes the	Zimmerman, Comment Tyj "Class 0 Now that classifica 13a, Clas clause sp This state Additiona Without a SuggestedRee Clarify th Type 3/S	George be T is the default we have Typ tion class sig so 0 is NOT th becifies the Pl ement needs ally, Table 33- a class sig, ho bemedy e sentence as S PDs, and e	CME Con Comment Status A for PDs". e 3 and Type 4, which ar natures, as described all ne default for PDs. Class D. Class 0 appears to be to be clarified. 16a appears to allow class	e required to prese over the place and 0 is the default that only allowed for Ty ss 0 for Type 3 PDs ype 1 PDs or as ap other references to	PD Classification nt at least 1-event summarized in Table 33- it a PSE assumes. this ype 1 PDs. s.
use the term pairsets. reader think there is a c SuggestedRemedy replace "conductor sets Response ACCEPT.	Switching back to conductor difference where I think there s" with "pairsets" or clarify wh	sets is confusing should be none	g and makes the	Zimmerman, Comment Tyj "Class 0 Now that classifica 13a, Clas clause sp This state Additiona Without a SuggestedRee Clarify th Type 3/S	George be T is the default we have Typ tion class sig so 0 is NOT th becifies the Pl ement needs ally, Table 33- a class sig, ho bemedy e sentence as S PDs, and e	CME Con Comment Status A for PDs". e 3 and Type 4, which ar natures, as described all ne default for PDs. Class D. Class 0 appears to be to be clarified. 16a appears to allow cla- bw is the PD a type 3? e either applying only to T editor to search and align	e required to prese over the place and 0 is the default that only allowed for Ty ss 0 for Type 3 PDs ype 1 PDs or as ap other references to	PD Classification nt at least 1-event summarized in Table 33- it a PSE assumes. this ype 1 PDs. s.
use the term pairsets. reader think there is a c SuggestedRemedy replace "conductor sets Response ACCEPT.	Switching back to conductor difference where I think there s" with "pairsets" or clarify wh	sets is confusing should be none	g and makes the	Zimmerman, Comment Typ "Class 0 Now that classifica 13a, Clas clause sp This state Additiona Without a SuggestedRe Clarify th Type 3/S documen Response	George be T is the default we have Typ tion class sig so 0 is NOT th becifies the Pl ement needs ally, Table 33- a class sig, ho bemedy e sentence as S PDs, and e	CME Con Comment Status A for PDs". e 3 and Type 4, which ar natures, as described all ne default for PDs. Class D. Class 0 appears to be to be clarified. 16a appears to allow class ow is the PD a type 3? es either applying only to T editor to search and align nich I have commented o <i>Response Status</i> C	e required to prese over the place and 0 is the default that only allowed for Ty ss 0 for Type 3 PDs ype 1 PDs or as ap other references to	PD Classification nt at least 1-event summarized in Table 33- it a PSE assumes. this ype 1 PDs. s.

C/ 33 SC 33.4.6 Zimmerman, George	P 285 CME Consult	L 11	# 175	Cl 33 Zimmerma	SC 33.3.2 an, George	P 25 CME C	onsulting	# 177	
Comment Type T	Comment Status A		AES	Comment	, U	Comment Status	0	Editorial	
DM noise for 10GBAS capping it at the 1MH	SE-T under 1 MHz is still to be z level should be more than su 1000BASE-T DM noise is only spec as written. <i>Response Status</i> C	ufficient to prote	ct the system. Further,	"Type 2, Type 3 and Type 4 PDs shall meet the requirements of 25.4.5 in the presence (lunb / 2).", but the requirement of 25.4.5 specifically only applies to Type 2 devices. "A receiver in a Type 2 Endpoint PSE or Type 2 PD (see Clause 33) shall meet the requirements of 25.4.7. A transmitter in a Type 2 Endpoint PSE or Type 2 PD delivering accepting more than 13.0W average power shall meet either the Open Circuit Inductance (OCL) requirement in 9.1.7 of TP-PMD, or meet the requirements of 25.4.5.1." Additionally, the requirement here requires ALL TYpe 2, 3 and 4 PDs whether or not the include 100BASE-TX, to meet the clause 25 requirement, which would make magnetics more expensive if, in the future, 100BASE-TX support were dropped. I believe the purpose of the requirement here is to add lunb to the clause 25 test, so, wh might benefit from some descriptive text as to the purpose.					
EZ				Suggested		ne descriptive text as it	the pulpose.		
C/ 33 SC 33.3.2 Zimmerman, George Comment Type TR Table 33-13a is entitle	P 256 CME Consult Comment Status A ed "Permissible PD Types" as	-	# 176 <i>Types</i> list the types, 1 row per	Insert Add a 33, thi Add C	after "PDs", "im note after line 6 s adds the unba lause 25 to the	plementing 100BASE-T s stating: "NOTE - For P alance current to the req 802.3bt amendment, ar s 2 or greater PD" (2 pla	Ds implementing b uirements in Claus d modify 25.4.5 to	oth Clause 25 and Clause se 25."	
type. There are two e They differ in the phys required. These diffe	entries for "Type 3/SS", differe sical layer class events and wi rences should just be noted in ey really a different type? (the	ntiated by their on hether data link a single row sir	class, not their type. layer classification is nee the PDs are of the	Response ACCE		Response Status	,		
shouldn't change it's t and others as class 4	type, but might under some cir)	rcumstances op	erate say as class 3,	Cl 33 Zimmerma	SC 33.3.2 an. George	<i>P</i> 250 CME C	6 L 36 onsulting	# 178	
SuggestedRemedy				Comment	, 0	Comment Status	-	Types	
rename them e.g., Ty	3/SS Class 1-3 and Type 3/S rpe 3a/SS and Type 3b/SS) or s showing the 2 class ranges Response Status C	, preferably		There the dis error. 1) Cla	are two major in scussion. Witho ss 6 is not perm		n the table, which a e reader is likely to s	re puzzling, but left out of	
ACCEPT IN PRINCIF				Suggested	Remedy	,	21		
Combine rows. Show class requirements.	v "Multiple-Event" and "Manda	tory" as the the	physical layer and DLL	the se	ntence (same p	permitted for any PDs c aragraph as Type 1 PD permitted for Type 4 PD	s).	on line 36, after the end of graph after line 52.	
Add Note to DLL cell implement DLL classi	which references text: "Type 3 ification."	B/SS Class 1-3 F	PDs are not required to	Response ACCE	PT IN PRINCIP	Response Status (LE.	C		
	assification section to be upda nt (Mark is considered an ever		Type 3 and Type 4	(same Insert:	paragraph as T	ype 1 PDs). s only advertise class 7		er the end of the sentence	

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 Page 47 of 72 9/18/2015 11:47:40 AM

C/ 33 SC 33.3.7.6 Zimmerman, George	P 275 CME Consulting	L 16	# 179	Cl 33 Zimmerma		33.3.5 ae		P 264 IE Consult	L 36	# 181
Comment Type TR	Comment Status D	2	Pres: Fred1	Comment		TR	Comment Stat			PD Classification
"Type 1, Type 2, and requirement for Cport	single-signature Type 3 PDs witl as defined in Table 33–18 item t the requirement for Cport as d	9. Type 3 dua	I-signature PDs with	(Note "Any F and P2 "Type	1 to Tab PD that i 264 L43 2, Type	3 and Typ	o class 0-3 powe	plement b	oth Multiple-Ever	
during transients" (yes	s to Table 33-18 item 9, and not s, they relate to transients, but a			Are in	conflict	. L43 wou	ld be read that ar	y Type 3 (Class 1-3 PD wo	uld have to implement h also says that Type 1-
SuggestedRemedy				```			to do 1-Event cla		Summary, which	n aloo bayo inat rype r
	es of first paragraph of 33.3.7.6, , OR, split Item 9 of Table 33-18			Suggested	Remed	<i>y</i>				
Type 3/SS PDs Class	0-4, and one for Type 3/DS PD 18 and not 33.3.7.6 as well)					L43 to rea 3 and Typ		4 or great	er power levels s	shall implement both
Proposed Response	Response Status Z							5.2) and D	ata Link Layer cl	lassification (see 33.6)."
REJECT.				"PD's	of all Ty					o implement Multiple-
This comment was W	ITHDRAWN by the commenter.			Response		griataro (o	Response Statu		Layer elacement	
C/ 33 SC 33.3.7.6	P 275	L 18	# 180	,		RINCIPLE				
Zimmerman, George	CME Consulting]			D a a i					
Comment Type TR	Comment Status D		Pres: Fred1			L43 to rea 3 and Tvp		4 or great	er power levels s	shall implement both
confusing, and do not requirements currently "For class 5 and 6 sin	PDs with CPort_min values gre appear to apply to any existing y in the section are for TYpe 1 a gle-signature PDs, if CPort_min	requirements, nd Type 2. >10uF, transi	since the only ent behavior has no	classif Add af "PD's	fication (fter the a of all Ty	(see 33.6). above sen pes not ca	tence.	,		Link Layer evels may omit Data
•	For dual-signature class 5 PDs, nd 8 single signature PDs, if CPc			C/ 33	SC :	33.3.5.2		^{>} 266	L 23	# 182
	ts. See 33.2.7.2 (TBD) or the tra			Zimmerma	an, Geoi	ge	CN	IE Consult	ing	
SuggestedRemedy				Comment	Туре	TR	Comment Stat	us A		PD Classification
	n editor's note, and explicitly sta om, including what needs to be o out' specification?)						entries for dual s e PDs shall use c			
Proposed Response	Response Status Z			Which	is it? T	able 33-1	3a suggests DS I	PDs don't l	nave class 0	
REJECT.				Suggested	Remed	y .				
This commont was Mi				chang	e "class	0 to 5" to	"class 1 to 5"			
This comment was w	ITHDRAWN by the commenter.			Response			Response Statu	is C		
Task Force to discuss	5			ACCE	PT IN F	RINCIPLE	Ξ.			
				OBE b	oy 147.					
TYPE: TR/technical requir	ed ER/editorial required GR/ge	eneral required	d T/technical F/editorial G/c	neneral				Comm	ent ID 182	Page 48 of 72

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

	C 33.3.7.5		273	L 33	# 183	CI 33		33.2.3		P 209	L 27	# 184	
immerman, G	eorge	CM	E Consulting			Johnson,	Peter			Sifos Techn	ologies		
Comment Type	TR	Comment Statu	s A		PD Power	Comment	Туре	TR	Comment	Status A			Type
33–18, the A dual-sign	transient cu ature PD sh	irrent drawn by the	PD shall not e	exceed 4.70 n	PD defined by Table nA/is in either polarity. er pairset in the same	is opt	ional wh	nen it is no		es (Class 5 a		rnatives" reads like powering Type 3 an	
conditions.						Suggeste	dReme	dy					
signature P	Ds the 4.70		he sum of the		ume whether for single per pairset. In the		3 and T					usly when powering	
Second, it i	is worded av								may operate wer on both N		ves simultaneous	ly when powering F	۶Dv
SuggestedRem	-	ut voltage at the DI	is static and i	in the range o	f VPort_PD defined by	Response)		Response S	Status C			
					4.70 mA/us in either	ACCE	EPT IN I	PRINCIPL	E.				
polarity. A c the same c		ire PD shall not exc	eed 4.70 mA	us in either p	olarity per pairset in	OBE	by 138.						
to						<i>Cl</i> 33 Johnson,		33.2.0a		P 200 Sifos Techn	L 30 ologies	# 185	
					PD defined by Table	Comment	Tvpe	Е	Comment	Status A	-		Types
For a single pairsets, fo	33–18, the transient current drawn by the PD shall not exceed 4.70 mA/us in either polarity. For a single-signature PD, this requirement applies to the sum of the current on both pairsets, for a dual-signature PD this requirement applies to the current on a per-pairset					Unde	r the Ta	ble 33-1a	heading "Num	ber of Pairs		ver" are values "2-P " to be meaninful.	
basis."		_				Suggeste	dReme	dy					
Response		Response Status	G C									te 4 uses the term	
Change to:	N PRINCIPL	.E.				chang	ge colun					t be even better to r" and adjust the va	lues
"\\\/h a.a. th a		a at the DI is statis		and af \/mant	DD defined by Table	Response	9		Response S	Status C			
33–18, the	transient cu		ngle-signature	PD shall not	PD defined by Table exceed 4.70 mA/us in	ACCE	EPT IN I	PRINCIPL					
	,	e conditions."	iot exceed 4.7	o ma/us m e	iner polarity per	OBE	by comi	ment 118.					

CI 33	SC 33.2.0a	P 200	L 49	# 186	CI 33	SC 33.2.0a	P 200	L 50	# 189
Johnson,		Sifos Technol		# 180	Johnson,		Sifos Techn		# 109
Comment	t Type E	Comment Status A		Editorial	Comment	Туре Т	Comment Status A		Types
Suggeste	edRemedy ove the "of" before	"1a has a typo - remove the " "differs" in footnote 3. <i>Response Status</i> C	'of" before "diffe	ers".	in row that o 4-pair to 1 o	rs 3 and 4 of the t nly power 2 pair (PSE's only. Fina	y to ALL Type-3 PSE's that able. Secondly, assuming to to Class 3/4 limit), then Sec ally, there is a caveat that a ation by power managemer / 4.	hat we are allow tion 33.2.5.6 (4- Type-3 or Type-	ring for Type-3 PSE's Pair ID) needs to specify 4 PSE that is restricted
ACCI	EPT.				Suggeste	dRemedy			
EZ					Add fo	potnote 4 to wher	ever "4-Pair" (or 2 pairsets)	appears in the ta	able.
Cl 33 Johnson,	SC 33.2.4.1 Peter	P 210 Sifos Technol	L 5 ogies	# 187		modify 33.2.5.6 to ets shall determin	o start with "Type 3 and Typ e"	e 4 PSEs that w	ill deliver power on both
done	ally deleted senter as maintenance? ew clause 33.2.5.5	Comment Status A nee regarding Alt B backoff ir (If not, it should have been 5 seems a bit out of place sir	a maintanence	task.) Also, moving to	identii Response	fied as Type 1 or	tnote: "Type 1 PDs and Typ Type 2 may be powered usi <i>Response Status</i> C E.		ve been clearly
Suggeste	dRemedy				OBE	by 118			
Eithe Iocati		nce in 33.2.4.1 entirely or re-	locate 33.2.5.5	clause back to it's prior	C/ 33	SC 33.2.4.6	P 216	L 36	# 190
Response		Response Status C			Johnson,		Sifos Techno	ologies	
ACCI	EPT IN PRINCIPL	E.			Comment Tho y	51	Comment Status A , for example Class 5, do no	t account for Du	PSE State Diagram
OBE	by comment 202.						ed in Table 33-16a.		ar Signature
Cl 33 Johnson,	SC 33.2.6 Peter	P 232 Sifos Technol	L 44 ogies	# 188		update this to re	flect Dual Signature classific unction must eventually take		
	paragraph concern	Comment Status A ing Autoclass seems off-top m the associated paragraph		•	Response		Response Status C		aar orginatore nanoning.
Suggeste	dRemedy				Add e	ditor's note: "DS	PD classification must be ta	aken into accour	nt here."
Eithe 33-7.		ass paragraph to after the Po	class equation o	or perhaps to after Table					
Response ACCI		Response Status C							
Move	paragraph to afte	r equation 33-3.							
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

CI 33	SC 33.2.6	P 233	L 10	# 191	C/ 33	SC 33.2.6	P 235	L 5	# 193
Johnson, F	Peter	Sifos Technol	ogies		Johnson,	Peter	Sifos Techno	logies	
Comment [·]	Туре Т	Comment Status A		Editorial	Comment	Туре Т	Comment Status A		PSE Classification
(Pclass margin 4 - 7, p	s)" is not accurat led values" - th bhrases such as '	nn header "Minimum suppor e. Pclass is defined in equa at is a more accurate depect '30W or Ptype as defined in esented in Table 33-11, Ptyp	ition 33-3. Text ion of this colum Table 33-11, wh	above refers to "over- nn. Also, for Classes lichever is lower" is	reque stater	sted power over a nent, as written, o	dual-signature PD is detecte a pairset per the class code demands that full requested ing it. Not sure about the ter	detected over th power be provid	at pairset". This led to any dual-signature
Suggested	Remedy				Suggeste	dRemedy			
NOTĔ	1 to "This is the	 "Minimum PSE output powe minimum required power at t m Rchan. Use equation 33-3 	he PSE PI calcu	ulated using minimum		e this to: e 3 or Type 4 PS	E detecting a dual-signature	PD shall not po	ower any pairset with a
Rchan	. For maximum [power available to PDs, see	Table 33-18."		classi	fication exceedin	g the power available on that	pairset at the F	PSE.
	numeric values a and 90 Watts.	as is done for class 0-3, nam	ely 30 Watts, 45	5 Watts, 60 Watts, 75	Response		Response Status C		
Response		Response Status C			7,001				
ACCE	PT IN PRINCIPL	E.			OBE	oy 132			
Leave	column header a	is is, but reference note 1.							
Do not	change values in SC 33.2.6	n column. P 234	L 35	# 192					
Johnson, F	Peter	Sifos Technol	ogies						
Comment [·]	Туре Т	Comment Status A		PSE Classification					
levels 33.2.6. event o	may opt to use 1 .2 mandates that classification with pe-4 PSEs shall	8 says "A Type 3 PSE that v -event Physical Layer classif a Type-3 or Type-4 PSE po no mark events. Para. 33.3 issue no more class events	ication". Is this wering a Class 0 3.2.4.4 (under Ta	really an option? Para.) to 3 PD provides one- able 33-3) says Type-3					
Suggested	Remedy								
	ce "may opt to" w aphs referenced	ith "is required to". (Any 'sha above.)	all' here seems r	edundant with other					
Response		Response Status C							
ACCE	PT IN PRINCIPL	E.							
OBE b	y 176.								
	toobaical require	d ER/editorial required GR/	apporal required	T/toobaical E/aditorial C/	nonorol		Comm	ent ID 193	Page 51 of 72

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

C/ 33 SC 33.2.6.2	P 236	L 27	# 194	C/ 33	SC	33.2.6.2		P 237	L 10	# 195
ohnson, Peter	Sifos Techno	logies		Johnson, I	Peter		5	Sifos Technol	ogies	
omment Type T	Comment Status A		PSE Classification	Comment	Туре	т	Comment Sta	atus A		PSE Classification
"PSEs that implement transition directly from class event."	CLASS_EV1_LCF, when con CLASS_EV1_LCF to MARK	nnected to singl _EV_LAST if the	e-signature PD's, shall ey implement only one	class	events a		tion directly to N			skip all subsequent signature during
First, why not say "Typ	be 3 and Type 4 PSE's" ?						not currently av n CLASS_EV3 r			assification state
this transition if we wa Type 4.	-9g does not include this tran nt Type 3 and Type 4 PD's to ed to single signature PD's?			the on this a	ily optio problen	n is to mo	ve onto CLASS	_EV4 after m	easuring Class	Type 3 Class 3, then 3 on the 3rd event. Is Nould CLASS_EVAL
uggestedRemedy				Suggested			,			
Figure 33-9g, the Clas	sification State Diagram, prol MARK_EV_LAST in place of t			00			nis deficiency in	the state diag	gram Fig 33-9g.	
(This could be an edito	or note now)			Response ACCE		PRINCIPL	Response Sta	atus C		
Replace "PSEs that in	nplement CLASS_EV1_LCF"	with "Type 3 an	d Type 4 PSEs".							
May need an editor no classification are work	te to review this phrase once	all the details for	or Dual Signature		ditor's r S_EV3.		r Fig 33-9g: "Dia	agram needs	to be updated to	o reflect new exits from
esponse	Response Status C			CI 33	SC	33.3.5.2		P 266	L 3	# 196
ACCEPT IN PRINCIP	1			Johnson, I	Peter		5	Sifos Technol	ogies	
	LL.			Comment	Туре	т	Comment Sta	atus A		PD Classification
Change text to "Type 3 transition directly from	3 and Type 4 PSEs connecte "	d to single-signa	ature PDs shall	33-16	a and in	the PD S	State Diagram (a	nd associate	d variable defini	ng to happen in Table tions). Will get mean something else.
Adopt new Figure 33-9	9g with new transition from Cl	LASS_EV1_LCF	to MARK_EV_LAST.	Suggested					ion mese really	mean something cise.
Change to remove Typ (comment 129).	be 1 and Type 2 entrances wi	ill also be includ	ed in new figure	What	about "	search an	d replace" with " ss_sig_ev35" or		' with "class_si <u>g</u> ke this?	_ev12" and
				Response ACCE		PRINCIPL	Response Sta	atus C		
				No ch	anges t	o the draft	t. Better sugges	tions for nan	nes are invited.	

		IEEE P80	02.3bt D1.2 4P PoE 5th	n Task Force	review co	nments				
C/ 33 SC 33.3.5.2 Johnson, Peter	P 266 Sifos Technolog	L 26 ies	# 197	C/ 33 Dwelley, Da	SC 33.2.7.	4.1	P 246 Linear Techn	L 6 ology	# 199	
would be beneficial to hi SuggestedRemedy Beneath Dual-Siganture Response REJECT. This idea is captured in the Cl 33 SC 33.2.7.4	Comment Status R lass signatures are per-pairse ghlight this fact. under PD Type 3 and PD Typ Response Status C the text below the table, line 3 P 245	t in a Dual Sig e 4, add (per 3. <i>L</i> 22		Comment 7 The PS descrip acronyr Suggested Replace Proposed F REJEC	ype E E_P2PRunb tions and ana n doesn't nee <i>Remedy</i> e with PSEun <i>Response</i> T.	and E2EP2PF lysis in 33.2.7 d to carry all t o and E2Eunk <i>Response</i>	.4.1 make the na	ture of the unbal		lcon
Dwelley, David Comment Type E	Linear Technolo Comment Status A		Icon	Cl 33 Dwelley, Da	SC 33.2.7. 4 wid	1	P 245 Linear Techne	L 19 ology	# 200	
is defined: "ICon-2P_unb is the ma: of same polarity under E <i>SuggestedRemedy</i> Replace with: "ICon-2P_unb is the ma:	on of this sentence is awkward ximum current the PSE is requ 22P2PRunb condition in the P ximum current the PSE is requ n unbalance effects are include <i>Response Status</i> C	ired to suppo OWER_ON s	rt over one of the pairs state."	"PSEs connec 4a." Suggested Add an "PSEs connec item 4a Response	hy of "shalls" shall meet ICd ted to a single <i>Remedy</i> "also": shall meet ICd ted to a single ." T IN PRINCI	is not as clear on as specifie signature PE on as specifie signature PE <i>Response</i>	d in Table 33–11.	-2P as specified	in Table 33-11 ite	

CI 33	SC	33.2	P 200	L 34	# 201	CI 33	SC	33.3.7.6	P 275	L 16	# 203
Dwelley, Da	avid		Linear Techno	logy		Dwelley, I	David		Linear Techno	ology	
Comment T	Гуре	Е	Comment Status A		Editorial	Comment	t Type	Е	Comment Status A		Pres: Fred1
Event" a I recogn	and "N nize th	Aultiple-E	Classification to "Multiple-Evo vent" don't match well. "Single changing a long-standing para Id bring is worth it.	e-Event" fits be	tter.	"Type requi class pairse	e 1, Type rement 1 0 to 4 s et. For c	for Cport a hall meet f lass 5 and	ngle-signature Type 3 PDs w s defined in Table 33–18 iter the requirement for Cport as 6 single-signature PDs, if Cl	n 9. Type 3 dua defined in Table Port_min = 10µ	Il-signature PDs with e 33–18 item 9 for each F, transient behavior
SuggestedF		•							ents. For dual-signature clas ss 7 and 8 single signature P		
	∋ "1-E\	vent" to "S	Single-Event" throughout the c	locument (first	instance at p200 line				requirements. See 33.2.7.2		
34). Roononoo						Suggeste	dReme	dy			
Response ACCEP	PT.		Response Status C			"A PE			operate normally in the presingle-signature PD shall inclu		
CI 33	SC	33.2.4.1	P 210	L 5	# 202				dual-signature PD shall meet		
Dwelley, Da	avid		Linear Techno	logy		Class transi		s, no furth	er considerations are require	ed to maintain o	peration during PSE
Comment T	Гуре	Е	Comment Status A		Editorial	trans	ents.				
"If a PS SuggestedF	SE per R <i>eme</i> o	forms det dy	ressive or not quite aggressive or not quite aggressive ection using Alternative B see	33.2.5.5."		PDs with power draw greater than Class 4 may require extra capacitance to maintain operation during PSE transients. Class 5 and 6 single-signature PDs can typically me requirement with CPort_min = 10µF. Class 5 dual-signature PDs should include these Cport values at each pairset. Class 7 and 8 single signature PDs can typically meet the comparison of t					
			hal sentence from D1.1, or kill the previous sentence.	this sentence	entirely and add (see	requi	rement	with CPort	_min = 20µF."		
SS.2.5.5 Response	5) 10 11		•			Response			Response Status C		
ACCEP	т		Response Status C			ACCI	EPT IN	PRINCIPL	E.		
	noved		nce in order to not have the s	ame requireme	ent in two places.	"A PE PSE	PI as de	efined in 33	operate without interruption i 3.2.7.2. A single-signature PI dual-signature PD shall meet) shall include (Cport as defined in
			ection using 5.5 for more information on d	etection backot	f requirements."	opera requi value	tion dur	ring PSE tr with Cport ch pairset.	reater than Class 4 may requ ansients. Class 5 and 6 sing >= 10μF. Class 5 dual-signa Class 7 and 8 single signatur	le-signature PD ture PDs should	s will meet the d include these Cport

CI 33 SC 33.2.7		L 45	# 204		SC 33.2.7	P 240	L 44	# 206
Dwelley, David	Linear Techno	ology		Dwelley, David		Linear Techr	nology	
Comment Type E	Comment Status A		Editorial	Comment Typ	e ER	Comment Status D		Editoria
typo - 33-11 define	veral places in the draft in Editor's s the parameter as "Icon".	s notes and in 33	BA-9. It appears to be a	change m	ade in the D	The Icon-2p-unb label makes 11.1 comment cycle that chan ere was a standalone Icon-2p	ged Icon-2p to Ic	on. The -unb suffix
SuggestedRemedy				SuggestedRe				
Replace "Icont" wit	h "Icon" throughout: I count 8 ins	tances, on page	s 243, 244, and 334.	00	-	a laan On throughouts I accent	C locations on n	ana 240 245 246
Response ACCEPT.	Response Status C					o Icon-2p throughout: I count e with _unb on pages 198 an		ages 240, 245, 246,
				Also chan	ge the exist	ing Icon-2p to Icon on p245 li	ne 23 to be consi	stent.
EZ				Proposed Res	ponse	Response Status Z		
C/ 33 SC 33.2.7 Dwelley, David	7.11 P 250 Linear Techno	L 45 blogy	# 205	REJECT.				
Comment Type E	Comment Status A	07	Editorial	This com	nent was W	ITHDRAWN by the comment	er.	
Missing capitalizati			Lutonar	OBE by c	omment 4.			
This typo also appe	ears in the contents (p22 line 19)	but I suspect it v	will fix itself.		SC 33.2.7	P 240	L 34	# 207
SuggestedRemedy				Dwelley, David		Linear Techr	lology	
Change to "Intra-pa	air"			Comment Typ		Comment Status A		Editoria
Response	Response Status C					etely clear for the 2-pair case Irrent capability in POWER_C		h nairaata"
ACCEPT.					•		on state over bot	n pansets
F7				SuggestedRe				
EZ				Change to "Continuo		irrent capability in POWER_C	ON state over all	powered pairsets"
				Response		Response Status C		
				ACCEPT	IN PRINCIP	LE.		
				OBE by c	omment 46.			
				EZ				

CI 33 SC 33.2.7.7	P 248	L 43	# 208	CI 33	SC 33.2.7	P 240		# 210
Dwelley, David	Linear Techno	ology		Dwelley, Dav	id	Linear T	echnology	
Comment Type T	Comment Status A		Editorial	Comment Ty	pe T	Comment Status A	L.	Editoria
	fices are missing a space/un lim-2pmin) it looks like a nev			Paramet	-11, item 4a er label is un			
SuggestedRemedy				"Pairset	current due to	E2ERunb within E2ERu	unb range for class X	
Change to -2p min or -2 better.	2p_min (or max as appropria	te), whichever th	e style guide likes		a (now 33.2.7 e to make th	.4.1 - this should also be is clear.	fixed) contains enou	igh information about
I count 11 mins. 2 maxs	s on pages 248-250 and 275			SuggestedRe	emedy			
Response	Response Status C			Replace	with "Pairset	current including unbala	nce for class X" (four	places).
, ACCEPT IN PRINCIPL	,			Correct /	Additional Info	ormation column to point	to 33.2.7.4.1.	
I believe a space is nee	ded before the min or max.			Response ACCEP1		Response Status C		
EZ					•			
Cl 33 SC 33.2.7.4.1	P 246 Linear Techno	L 10	# 209	<i>Cl</i> 1 Dwelley, Dav	SC 1.4.415 id	<i>Р</i> 97 Linear T	L 8 echnology	# 211
Dwelley, David		blogy	,	Comment Ty	pe TR	Comment Status A	L.	Definition
Comment Type T	Comment Status A		Icon	Page nu	mber is from	802.3bx D3.2		
"The PSE_P2PRunb de other parts of the system pair current due to E2E during normal operating	nce and some awkward lang etermined by RPair_max and m - i.e. channel (cables and P2PRunb, is not exceeding I g conditions. Icon-2P-unb ma higher than Icon-2P specific	I RPair_min ensu connectors) and con-2P-unb as c aximum is the av	the PD, the maximum defined in Table 33–11 erage pair current due	"1.4.415 classifica	Type 1 PD: A ation (see IEE	ion in Clause 1 is broken A PD that does not provic E 802.3, Clause 33)." 2 definitions appear to b	le a Class 4 signatur	e during Physical Layer
SuggestedRemedy				SuggestedR	emedv			
system (cables, connec	arameter is chosen to ensure tors and PD) will not cause t	the maximum pa	ir current to exceed	Change "1.4.415	to: Type 1 PD: A	A PD that provides a Clas ee IEEE 802.3, Clause 3	ss 0, 1, 2 or 3 signatu 3)."	ure during Physical
Icon-2P-unb (as defined	d in Table 33–11) during nor	mal operating co	nditions."	Response		Response Status C		
Strike the second sente	nce.			ACCEPT		•		
Response	Response Status C							

ACCEPT IN PRINCIPLE.

OBE by 156.

C/ 1 SC 1.4 Dwelley, David	P 97 Linear Techn	L 17 Iology	# 212	C/ 1 Dwelley, Da	SC 1.4.42 /id	5	P 97 Linear Tech	L 40 nology	# 213
Comment Type TR Page number is from 8	Comment Status A	lology	Definitions	Comment T			omment Status A	nology	Pres: Dwelley
Definitions for Type 3 a SuggestedRemedy Add definitions: Type 3 PD: A PD that classification, understa classification (see IEEI Type 3 PSE: A PSE th Type 4 PD: A PD that classification, understa classification (see IEEI	and Type 4 PDs and PSEs a provides a Class 6 or lower s ands multiple-Event classifica E 802.3, Clause 33). at supports PD Types 1-3 ar provides a Class 7 or 8 signa ands multiple-Event classifica	signature during f ation, and is capa nd supports Low ature during Phys ation, and is capa	able of Data Link Layer MPS. sical Layer able of Data Link Layer	The Vpc "1.4.425 pair and 1.4.426 pair and SuggestedF Adjust to "1.4.425 power p Clause 3 1.4.426	and Vpse of VPD: The any conduct VPSE: The any conduct emedy o support 4- VPD: The air and any 3). VPSE: The air and any	definition roltage a tor of th voltage tor of th pair oper roltage a conductor voltage conductor	as in Clause 1 are 2-pa at the PD PI measured e other power pair (se at the PSE PI measure e other power pair (se	l between any con e IEEE 802.3, Cla ed between any co e IEEE 802.3, Cla l between any con ative power pair (: ed between any co	use 33). onductor of one power use 33)." ductor of a positive see IEEE 802.3, onductor of a positive
Add definitions: Type 3 PD: A PD that classification, impleme simultaneously (see IE Type 3 PSE: A PSE th Clause 33). Type 4 PD: A PD that classification, impleme classification, and acce 33).	t perfect, but should be inclu provides a Class 1 to Class 6 ints multiple-Event classifica EE 802.3, Clause 33). at supports PD Types 1-3 ar provides a Class 7 or 8 signa ints multiple-Event classifica epts power on both Modes si at supports PD Types 1-4 ar	6 signature during tion, and accepts nd supports Low ature during Phys tion, is capable o multaneously (se	g Physical Layer s power on both Modes MPS (see IEEE 802.3, sical Layer of Data Link Layer see IEEE 802.3, Clause	Change "1.4.425 powered 802.3, C "1.4.426 powered	VPD: The pair and ar lause 33)." VPSE: The	voltage a ny negat voltage	at the PD PI measured ive conductor of the co at the PSE PI measur ive conductor of the co	prresponding power	ered pair (see IEEE
TYPE: TR/technical require	ed ER/editorial required GR	/general required	d T/technical E/editorial G/o	general			Comr	ment ID 213	Page 57 of 72

C/ 33 SC 33.2.5 Schindler, Fred	P 227 Seen Simply	L 42	# 214	<i>Cl</i> 79 Schindler, F	SC 79.3.2.61. 1 red	P 343 Seen Simply	L 32	# 216
Comment Type TR Comm A previous comment filed indicat requirements. This same conce			PSE Detection section changes		what a PD places	<i>Comment Status</i> A in a PSE field.		DLL
SuggestedRemedy The Task Force should discuss to When I review the specification I interchangeably. The text in this group should decide what is require consistent usage and technical i	the implications of res I see link section and s section lines 42 and uired and change all o	toring IEEE 802 link segment va 43 are an exam	lues used ple of this. The		er line 32, generated by a F	PD shall set the field to 00." <i>Response Status</i> C		
0	nse Status C			Cl 79 Schindler, F	SC 79.3.2.6a.2 red	P 343 Seen Simply	L 36	# 217
No changes to draft.				Comment T	ype TR vhat a PD places	Comment Status A in a PSE field.		DLL
Cl 33 SC 33.6.3.2 Schindler, Fred Comment Type TR Comm It does not appear to be worthwh eachother.	P 299 Seen Simply nent Status D nile providing class 6 a	and 7 if they are	# 215 Management within 3% of		er line 36, generated by a F	P shall set the field to 0000. <i>Response Status</i> C	n	
SuggestedRemedy Have the Task Force discuss wh Editor's note for the decision if th for the text for the next Draft.				CI 33 Schindler, F Comment T		P 228 Seen Simply Comment Status A	L 36	# 218
Proposed Response Respon REJECT. This comment was WITHDRAW	nse Status Z			The sen "The co anytime	.tence, nnection check s	hall be rerun if power up fails ad from both pairsets at the s		ning requirements or
Fred to add pointer to explanatio				SuggestedF Replace "The co when po	Remedy the text with, nnection check s	hall be rerun if power up fails from both pairsets	s to meet the tir	ning requirements or
				Response ACCEP	T IN PRINCIPLE	Response Status C		
				timing re	nnection check s	hall be rerun before applying ower is absent on both pairs		
TYPE: TR/technical required ER/edi COMMENT STATUS: D/dispatched				general		Commei	nt ID 218	Page 58 of 72 9/18/2015 11:47:

C/ 33 SC 33.2.4.4 Schindler, Fred	P 211 Seen Simply	L 41	# 219	Cl 33 SC 3 Schindler, Fred	33.2.7.6	P 248 Seen Simply	L 26	# 221			
Comment Type ER Fix typo "Tyep". SuggestedRemedy	Comment Status A		Editorial		cted to a th pairset	Comment Status D single signature PD, a Type 3 s before the current exceeds					
Use "Type". <i>Response</i> ACCEPT IN PRINCIPL OBE by comment 96.	Response Status C E.			provides unnecessary guidance. The prior sentence, "Power shall be removed from a pairset of a PSE before the pairset current exceeds t "PSE upperbound template" in Figure 33-14." provides requirement. On pages 239 to 240, "Power may be removed from both pairsets any time power is removed from one pairs Editor's Note: All other instances of the above statement to be removed from draft. If							
C/ 33 SC 33.2.5.0a Schindler, Fred	P 228 Seen Simply	L 14	# 220	commentators	find any	nstances of the above statem please comment against then concern expressed in the Edi	n." The first se				
pairset." is not required SuggestedRemedy	shall be completed before cla I because the same requireme			upperbound te pairset may no considered a F	emplate. ot warrant PD. Havir uild syster	section prevents one or both Concerns about delays in turn ed because the device conne ng the ability to control pairset ns capable of removing powe pairset.	ning off one pai ected to the PSI ts individually p	rset then a second E is no longer ermits system			
Strike the referenced te Response ACCEPT. EZ	ext on line 14. Response Status C				tence, cted to a th pairset	single signature PD, a Type 3 s before the current exceeds					
				Proposed Respons REJECT.	se	Response Status Z					
				This comment	was WIT	HDRAWN by the commenter					

Fred to resubmit next meeting.

C/ 33 SC 33.2.9.1 Schindler, Fred	.1 P 254 Seen Simply	L 21	# 222	C/ 33 Schindler, Fr	SC 33.2.4.6 red	P 218 Seen Simply	L 1	# 224
Comment Type ER The following text is n	Comment Status A	e removed,	Editorial	<i>Comment T</i> y Editor's	note,	Comment Status D		Editoria
SuggestedRemedy Remove, "Editor's Note: Yair to	review AC MPS for 4-pair."			Team to	pay	l identification not complete" in ve paragraph during reviews."	above paragra	aph needs to be clear.
Response	Response Status C			l do not	understand wh	ny this note exists.		
ACCEPT IN PRINCIP	PLE.			SuggestedR	emedy			
OBE by 64						ne has a concern with the refere ains. Otherwise add some spe		
EZ				Proposed Re	esponse	Response Status Z		
				REJECT				
C/ 33 SC 33.3.5.1 Schindler, Fred	P 265 Seen Simply	L 4	# 223	This cor	nment was WI	THDRAWN by the commenter.		
Comment Type ER	Comment Status A		PD Classification	Task for	ce to discuss			
The text, "PDs implementing a the maximum power of may confuse the read	Multiple-Event class signature draw, PClass_PD, as specified ler	shall return Cla in Table 33-18.	ss 4 in accordance with	C/ 33 Schindler, Fi		P 227 Seen Simply	L 35	# 225
SuggestedRemedy				Comment Ty		Comment Status A		PSE Powe
Replace the sentence PDs implementing a N the maximum power of	Multiple-Event class signature s draw, PClass_PD, as specified	hall return Clas in Table 33-18	s 4 in accordance with and the responses	"In any o PSE has	successfully	, te, the PSE shall not apply ope detected a valid signature over ermitting allowed specific syste	that pairset."	
specified in Table 33-				SuggestedR	emedy			
	e with, Multiple-Event class signature			PSE has single-si	perational sta successfully	te, the PSE shall not apply ope detected a valid signature over th less than or equal to class 4	that pairset.	A PSE powering a
with the maximum por specified in Table 33-	wer draw, Pclass_PD, as speci 16a."	fied in Table 33	-18 and the responses	Response ACCEP		Response Status C LE.		
				PSE has		te, the PSE shall not apply ope detected a valid signature over		

C/ 33 SC 33.2.6 Schindler, Fred	P 233 Seen Simply	L 22	# 226	C/ 33 SC Schindler, Fred	33.1.4	P 198 Seen Simply	L 8	# 228
Comment Type TR Co PSEs may indicate that they ending classification after 2 of omit 3 events, which is confu SuggestedRemedy Indicate that 3 events may b 214.	are not capable of provid or 3 events. Table 33-7 in using. e provided by Type-3 and sponse Status Z AWN by the commenter. 33-3 is a maximum. Tabl	dīcates 2 or : Type-4 PSE	3 events but Table 33-3, s in Table 33-3 on page	Comment Type Changes to "A power sy the link sect connecting thave change 1.4.241 link 1.4.242 link only two Me We had a "I that a full-du SuggestedReme	stem consi ion them. " ed legacy r section: Th segment: 1 dium Depe ink segmer uplex mediu edy price should	Comment Status A ests consisting of a single PSE, equirements. The portion of the link from the P The point-to-point full-duplex me endent Interfaces (MDIs). att that changed to "link section um be used.	SE to the PD edium connec ", which remo	ction between two and
Cl 33 SC 33.2.7 Schindler, Fred Comment Type TR Co Legacy text, "PSE behavior conforms to t Figure 33-10. When the PSE provides pow that states a requirement ha SuggestedRemedy Restore the text with the follo diagrams. "PSE behavior conforms to t TBD, and Figure 33-10. Whe Table 33-11."	ver to the PI, it shall confo to been stricken from the powing TBD or replace with he state diagrams in Figu	rm with Table spec. reference to re 33-9,Figur	a 33-11." the appropriate state e 33-9 continued, Figure	Response ACCEPT IN Change defi 1.4.241 link	nition to:	Response Status C .E.	rom the PSE f	to the PD.
	sponse Status C	orm with Tabl	e 33-11."					

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 3	3.3.1	P 255	L 51	# 229		CI 33	SC :	33.2.7.11a	P 251	L 3	# 230
Schindler, Fred		Seen Simply				Schindler,	Fred		Seen Simp	ly	
Comment Type	TR	Comment Status A			57V	Comment	Туре	TR	Comment Status R		Pres: Types
New PD Types "The PD shall permanent dar	withstand a	o accept up to 57V on each ny voltage from 0 V to 57 V	n pair set. Fix t at the PI inde	ext, finitely without		place. expect	Previou ed pow	usly we ha er. Type 3	hoices made related to d Types that indicated at and 4 introduce devices guire new terms to be use	ilities, one of which that no longer gu	ch was maximum
uggestedRemedy	/					Before	we had	la Type-X	system that indicated ca	bling connectors	nower source and
Replace the D	raft text with	Ι,						ance ability		bing, connectors	, power source, and
pairset indefini	tely without	nall withstand any voltage fr permanent damage. Type n both pair sets indefinitely	3 and Type 4	PDs shall withstar	nd any	cabling to a PS	g infrast SE that	ructure nee	E that cannot provide fu eds to meet the Type-X F ne maximum class possil	SE needs. If I ch	nange the Type-X PSE
		nall withstand any voltage fi						gested solu easier to ur	ution removes many corr	er-cases and foo	tnotes, which makes the
		permanent damage. Type n both pair sets or betweer			nd any	Suggested	Remed	V			
permanent dar		n both pair sets of between	i pairsets inde	annitely without		The Ta	ask Ford	ce should c	liscuss these implication how to proceed.	s and the need fo	r so many variants of the
Response	F	Response Status C				Tho pr	oforrod	colution in	to require a PSE of Type	X to provide Ptv	no(min) for that type
ACCEPT IN P	RINCIPLE.					Response	elelleu	Solution is			pe(mm) for that type.
No changes to	the draft					REJEC	ст		Response Status C		
nto onangoo to						No sup					
						C/ 33		33.3.5	P 264	L 43	# 231
						Schindler,		55.5.5	Seen Simp		# 201
						Comment	Туре	TR	Comment Status A	-	PD Classification
						The foo already	otnote c y suppo		3-15a and text below the em it should continue to s t.		
						Suggested	Remed	y			
						"Any P			drawing more than class-	3 power levels ma	ау
						Response			Response Status C		
						ACCEI	PT IN P	RINCIPLE	•		
						OBE b	y 181				

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 Schindler,	_	33.3.7.6	P 275 Seen Simpl	L 5 y	5	# 232	Cl 33 Schindler,		3.5.1.1		P 293 Seen Simply	L 8	# 233
Comment	Туре	TR	Comment Status A			Pres: Fred1	Comment	Туре	TR	Comment	Status A		Management
New F	PD Types	s need to	have their current deman	ls constrai	ined.		Chang	ges in Ta	ble 33-21	are not corr	ect and text is m	nissing below the	ne table.
Suggested	dRemedy	V					Suggestea	dRemedy	/				
should	d have the	ne same c	rovided that cover why this constrains placed on them	Baseline					•	column one, umn add, "R/	"11.15.8" to "11 W".	.15.7".	
http://v	www.ieee	e802.org/3	n work done in IEEE 802.3 3/at/public/2007/05/avette 3/at/public/2007/03/schind	th_0507.pc			33.5.1 Bits 11		ce Power ermine w		airset Selection ernative or Alter		abled when Force Power
Response			Response Status C				Response	,		Response	Status C		
ACCE	PT IN PF	RINCIPLE	Ξ.				ACCE	PT IN PF	RINCIPLI	E.			
Adopt	haaalina	a taxt in al	ides 14-17 of schindler_1	0915 ndf			change	je 11.15:7	7 on line	39 to 11.15:8	l.		
•				_0010.pui.			Ū	o 12 loot	toble col	ump odd "D	^^/"		
Strike "2. A c	Editor's I drop out s	Note on p specificat	page 275, line 13. ion needs to be added to This is in place of increas	this sectior	n that requ	ires PDs to	On line After li 33.5.1 Bits 11	ine 43 in: .1.x Forc	sert text, ce Power ermine w		airset Selection		abled when Force Power
Strike "2. A c	Editor's I drop out s	Note on p specificat	bage 275, line 13. ion needs to be added to	this sectior	n that requ	ires PDs to	On line After li 33.5.1 Bits 11	ine 43 in: 1.1.x Forc 1.7:6 det //ode is e	sert text, ce Power ermine w	Test Mode P	Pairset Selection ernative or Alter P 341		abled when Force Power # 234
Strike "2. A c	Editor's I drop out s	Note on p specificat	bage 275, line 13. ion needs to be added to	this sectior	n that requ	ires PDs to	On line After li 33.5.1 Bits 11 Test M	ine 43 in: .1.x Ford 1.7:6 dete Aode is e SC 7	sert text, ce Power cermine w enabled.	Test Mode P	airset Selection ernative or Alter	natives are ena	
Strike "2. A c	Editor's I drop out s	Note on p specificat	bage 275, line 13. ion needs to be added to	this sectior	n that requ	ires PDs to	On line After li 33.5.1 Bits 11 Test M	ine 43 in: 1.1.x Ford 1.7:6 dete Mode is e SC 7 Fred	sert text, ce Power cermine w enabled.	Test Mode P	Pairset Selection ernative or Alter <i>P</i> 341 Seen Simply	natives are ena	
Strike "2. A c	Editor's I drop out s	Note on p specificat	bage 275, line 13. ion needs to be added to	this sectior	n that requ	ires PDs to	On line After li 33.5.1 Bits 11 Test M C/ 79 Schindler, Comment The ne	ine 43 in: 1.1.x Ford 1.7:6 dete Mode is e SC 7 Fred <i>Type</i> ew sente	sert text, ce Power ermine w enabled. 79.3.2.4 TR ence,	Test Mode F hich PSE Alt	Pairset Selection ernative or Alter <i>P</i> 341 Seen Simply	L 2	# <u>234</u> DLL
Strike "2. A c	Editor's I drop out s	Note on p specificat	bage 275, line 13. ion needs to be added to	this sectior	n that requ	ires PDs to	On line After li 33.5.1 Bits 11 Test M C/ 79 Schindler, Comment The ne "A Typ Could	ine 43 ins 1.x Ford 1.7:6 det Mode is e SC 7 Fred Type ew sente be 3 or Ty be imple	rermine w enabled. 79.3.2.4 TR ence, iype 4 dev ementatio	Test Mode F hich PSE Alt <i>Comment</i> vice shall set on specific bu	Pairset Selection ernative or Alter P 341 Seen Simply Status A the bits in powe	L 2 L 2 r type to TBD. ¹ ution is provide	# 234 DLL
Strike "2. A c	Editor's I drop out s	Note on p specificat	bage 275, line 13. ion needs to be added to	this sectior	n that requ	ires PDs to	On line After li 33.5.1 Bits 11 Test M C/ 79 Schindler, Comment The ne "A Typ Could	ine 43 ins 1.x Ford 1.7:6 det Mode is e SC 7 Fred Type ew sente be sente be imple	rementatio to respon	Test Mode F hich PSE Alt <i>Comment</i> vice shall set on specific bu	Pairset Selection ernative or Alter P 341 Seen Simply Status A the bits in powe t a preferred sol	L 2 L 2 r type to TBD. ¹ ution is provide	# 234 DLL
Strike "2. A c	Editor's I drop out s	Note on p specificat	bage 275, line 13. ion needs to be added to	this sectior	n that requ	ires PDs to	On line After li 33.5.1 Bits 11 Test M Cl 79 Schindler, Comment The ne "A Typ Could legacy Suggested Replac "A Typ	ine 43 in: 1.x Ford 1.7:6 det Mode is e SC 7 Fred Type ew sente be imple of Types dRemedy ce the re be 3 or Types	rence, ype 4 deve ementation to respon	Test Mode F hich PSE Alt <i>Comment</i> vice shall set on specific bu nd to new Typ sentence wit vice shall set	Pairset Selection ernative or Alter P 341 Seen Simply Status A the bits in powe t a preferred sol bes with the high	L 2 Tr type to TBD. ution is provide test power level	# 234 DLL
Strike "2. A c	Editor's I drop out s	Note on p specificat	bage 275, line 13. ion needs to be added to	this sectior	n that requ	ires PDs to	On line After li 33.5.1 Bits 11 Test M Cl 79 Schindler, Comment The ne "A Typ Could legacy Suggested Replac "A Typ	ine 43 ins 1.1.x Ford 1.7:6 deta Mode is e SC 7 Fred Type ew sente be 3 or Ty be imple y Types f dRemedy ce the re be 3 or Ty ating dev	rementation to resport version of the text of	Test Mode F hich PSE Alt <i>Comment</i> vice shall set on specific bu nd to new Typ sentence wit vice shall set	Pairset Selection ernative or Alter P 341 Seen Simply Status A the bits in powe t a preferred sol bes with the high th, the bits in powe	L 2 Tr type to TBD. ution is provide test power level	# 234 DLL ed below, which permits els possible.

C/ 79 SC 79.3.2.6a Schindler, Fred	P 342 Seen Simply	L 52	# 235		Cl 33 Schindler, Fre	SC 33.2.4.2 ed	P 210 Seen Simpl	L 37	# 237
Comment Type TR C Replace the Editor's note or SuggestedRemedy Replace the Editor's note or "The PSE power status valu and PSE power class, defin TLV."	omment Status A a line 52 with the requested a line 52 with, a field shall contain the F a line 52 with, a line 52 with, a field shall contain the F	'SE's bit-map o reported for the 'SE's bit-map o	device generating f the PSE power p	g the pair	Comment Typ In D1.0 cr ""both_alt both pair replaced SuggestedRe Replace tr "Insert ne With, "Insert ne Strike out "both_alts This varia Values:Fa	be TR comment 229 s is_valid:A Typ sets." This w by a do_detect medy ext, w variables bo w variables Pl it text on lines 4 is_valid able is provide alse:do_detect	Comment Status A struckout text, e 3 or Type 4 PSE has det vas not done for D1.1 or D1 stion state.	ected a PD reque .2. The variable re and PD_4pair_ ws:" SEs. n both pairsets.	both_alts_valid was
Cl 79 SC 79.3.2.6b Schindler, Fred Comment Type TR C Replace the Editor's note or SuggestedRemedy Replace the Editor's note or "The System setup value fie ID, and PD PI defined in Ta	n line 40 with, Id shall contain the devic	e bit-map of the			"Editor's I These sh <i>Response</i> ACCEPT	ould be review	ve parameter (both_alts_v ved as connection check te <i>Response Status</i> C done already.		efined by comments.
Response Re ACCEPT.	sponse Status C				C/ 33 Picard, Jean	SC 33.3.5.3	P 268 Texas Instru	L 5 iments	# 238
					SuggestedRe Increase Response ACCEPT	eeds more ma <i>medy</i> the maximum	Comment Status A argin for TACS to keep cor value from 84.5 ms to 87.5 Response Status C		PD Classification

C/ 33 SC 33. Picard, Jean	.3.5.2.1	P 267 Texas Instrur	L 15 ments	# 239	C/ 33 Picard, Je	SC 33.2.7 an		P 241 Texas Instrun	L 38 nents	# 242
51		omment Status A for TLCF_PD to keep of	complexity dowr	PD Classification	Comment there		Comment S argin for ILIM-2P	Status D		PSE Power
SuggestedRemedy Increase the ma	ximum value	e from 84.5 ms to 87.5	ms.		Table Suggestee					
Response ACCEPT.	Re	sponse Status C			Reduc	,	ss 6 to a value slig <i>Response</i> S		7A	
Cl 33 SC 33. Picard, Jean	.2.6.2	P 238 Texas Instrur	L 41 ments	# 240	REJE	-		the comments		
Comment Type T		omment Status A to readjusted to align w	vith the PD prop	PSE Classification osed changes on TACS			VITHDRAWN by behind this? Yair			
 SuggestedRemedy	F range from	n 85-100 ms to 88-105	i ms.		C/ 33 Picard, Je			P 264 Texas Instrun	L 43 nents	# 243
Response ACCEPT.	Re	sponse Status C				atement about	Comment S Type 3 does not		le 33-13 for class 1-3	PD Classification
See comments 5	53, 52, 54, 2	238, 239			Suggestee Resta	,	e to Indicate that	for class 1-3 S	S, LLDP is optional	
<i>Cl</i> 33 SC 33. Picard, Jean	.2.7	P 241 Texas Instrur	L 43 ments	# 241	Response ACCE	PT IN PRINCI	Response S PLE.	tatus C		
Comment Type T there is too muc		omment Status D [·] ILIM-2P		PSE Power	OBE	by comment 18	31			
SuggestedRemedy Reduce ILIM-2P	class 8 to a	a value slightly below 1/	Ą							
Proposed Response REJECT.	e Re	sponse Status Z								
This comment w	as WITHDF	AWN by the comment	er.							
What is the reas	on behind t	nis? Yair do you agree	?							

C/ 33 Picard, Jean	SC 33.3.5.3	P 267 Texas Instrun	L 37 ments	# 244	<i>Cl</i> 33 Picard, Je	SC 33.3. an	7	P 270 Texas Instrum	L 13 nents	# 246
<i>Comment Ty</i> To indica		Comment Status A e requirement as indicat	ed in table 33-16	PD Classification needs to apply.	<i>Comment</i> Ppeal		Comment nentioned for clas	t Status A ss 6-8		PD Pow
SuggestedR	Remedv				Suggeste	dRemedv				
Replace shall red	with "a PD implem luce its classification	enting Autoclass n current at TACS (as d	efined in Table 33	–17a), resulting in a	Clarify	/ how the pea	k power requiren s 5 and 7, as we			6 and 8 and define it
classifica		table 33-16 for type 3)	for the remainder	of CLASS_EV1 "	Response)	Response	Status C		
Response		esponse Status C			ACCE	PT IN PRIN	CIPLE.			
•	T IN PRINCIPLE.				OBE	by comment	12			
at TACS	6 (as defined in Tab	implementing Autoclass le 33–17a), resulting in a			C/ 33 Picard, Je	SC 33.2.	4.1	P 210 Texas Instrum	L 5 nents	# 247
	er of CLASS_EV1. gested remedy.				Comment			t Status A		Editori
CI 33 Picard, Jean	SC 33.3.7.4	P 273 Texas Instrun	L 23 ments	# 245	Suggester Remo		es around "see 3	33.2.5.5"		
		<i>comment Status</i> A or class 6 and 8 is not co lass).	onsistent with stat	PD Power ement of page 272		PT IN PRINC	, CIPLE.	Status C		
SuggestedR	emedy				OBE	by comment 2	202.			
Clarify h	low the peak power	definition should be app	lied for class 6 ar	nd 8.	C/ 33	SC 33.3.	7.10	P 276	L 37	# 248
Response	R				Picard, Je	an		Texas Instrum	nents	
		esponse Status C								
ACCEP	T IN PRINCIPLE.	esponse Status C			Comment	Type TR	Comment	t Status A		PD Pow
	-	esponse Status C	э.		ICON 2.5m	_2P max for (cable) due to	class 5 and 6 ma	y be too tight to (including tempe	erature differenc	PD Pow scribed (using only es). To avoid later
	-		Э.		ICON 2.5m	_2P max for (cable) due to perability prol	class 5 and 6 ma diode mismatch	y be too tight to (including tempe	erature differenc	scribed (using only
	-		е.		ICON 2.5m intero Suggeste If test	_2P max for o cable) due to perability prol dRemedy conditions re	class 5 and 6 ma diode mismatch blems in the field	y be too tight to (including temporelated to diode	erature differenc selection. d confirm if ICO	scribed (using only
	-		e.		ICON 2.5m intero Suggeste If test	_2P max for of cable) due to perability prol dRemedy conditions re ent margin. If	class 5 and 6 ma diode mismatch olems in the field main the same, in not the case, inc	y be too tight to (including temporelated to diode	erature differenc selection. d confirm if ICO	scribed (using only es). To avoid later
	-		e.		ICON 2.5m intero Suggester If test suffici Response	_2P max for of cable) due to perability prol dRemedy conditions re ent margin. If	class 5 and 6 ma diode mismatch olems in the field main the same, r not the case, inc <i>Response</i>	y be too tight to (including temporelated to diode need to verify an crease its value	erature differenc selection. d confirm if ICO	scribed (using only es). To avoid later
	-		e.		ICON 2.5m intero Suggester If test suffici Response ACCE	2P max for c cable) due to perability prol dRemedy conditions re ent margin. If P EPT IN PRINC	class 5 and 6 ma diode mismatch olems in the field main the same, r not the case, inc <i>Response</i>	y be too tight to (including temporelated to diode need to verify an crease its value a <i>Status</i> C	erature differenc selection. d confirm if ICO	scribed (using only es). To avoid later
	-		е.		ICON 2.5m intero Suggeste If test suffici Response ACCE Add e	2P max for c cable) due to perability prol dRemedy conditions re ent margin. If PT IN PRINC ditor's note b	class 5 and 6 ma diode mismatch olems in the field main the same, in not the case, ind <i>Response</i> CIPLE.	y be too tight to (including temporelated to diode need to verify an crease its value a <i>Status</i> C	erature difference e selection. nd confirm if ICO accordingly.	scribed (using only es). To avoid later

C/ 33 SC 33.2.4 P 209 L 36 # 249 Dove, Daniel Dove Networking Solut	C/ 33 SC 33.2.4.3 P 209 L 23 # 251 Dove, Daniel Dove Networking Solut
Comment Type ER Comment Status A Editorial	Comment Type TR Comment Status D Pres: S
TBD No longer necessary	Type 3 and Type 4 PSEs will use Pairset Controllers and this should be identified early in the constant descriptions.
SuggestedRemedy Strike"(TBD)" and replace with "33-9a through 33-9g and Figure 33-10."	SuggestedRemedy
Response Response Status C ACCEPT IN PRINCIPLE.	Modify as follows; "The PSE and Pairset Control state diagrams use the following constants. For Type 3 and Type 4 PSEs, each pairset controller will maintain a local copy of each constant"
We need to see if Figure 33-10 will apply to Type 3/4 or will we need to create a new one	Proposed Response Response Status Z REJECT.
Partial OBE by comment 61.	This comment was WITHDRAWN by the commenter.
EZ	Wait for PSE State Diagram Presentations
C/ 33 SC 33.2.4.4 P 209 L 44 # 250 Dove, Daniel Dove Networking Solut	Cl 33 SC 33.2.4.4 P 209 L 36 # 253 Dove, Daniel Dove Networking Solut
Comment Type ER Comment Status D Pres: SD Additional Text required <td< td=""><td>Comment Type TR Comment Status D Pres: S New variables to be added</td></td<>	Comment Type TR Comment Status D Pres: S New variables to be added
SuggestedRemedy	SuggestedRemedy
Insert the following; "For Type 3 and Type 4 PSEs, the PI will consist of either an Alt-A pairset, an Alt-B pairset, or both Alt-A and Alt-B pairsets being controlled by pairset controllers. The pairset controller will utilize timers, variables and functions defined in this subclause as either a single controller, or as two controllers using local instances of each timer, variable and/or function."	Insert the following; "PS_Det_Fail_A This variable provides an indication from the Pairset A controller that a failure to detect has occurred. PS_Det_Fail_B This variable provides an indication from the Pairset B controller that a failure to detect has occurred.Values: True: The pairset controller has timed out when attempting detection.False: The pairset controller
Proposed Response Response Status Z	has not timed out when attempting detection."
REJECT.	Proposed Response Response Status Z REJECT.
This comment was WITHDRAWN by the commenter.	This comment was WITHDRAWN by the commenter.
Wait for presentation	Wait for presentation

C/ 33 SC 33.2.4.4	P 209	L 49	# 254	C/ 33	SC 33.2.4	.4	P 213	L 4	# 256
ove, Daniel	Dove Network	ing Solut		Dove, Dan	iel		Dove Network	king Solut	
Comment Type TR	Comment Status D		Pres: SD	Comment	Type TR	Comment	t Status D		Pres: S
PD_4pair_candidate no	longer required								eed to have one for
SuggestedRemedy						stance, one pairs	set may be unpo	owered, while the	e other is powered.
function of the results of	didate with PD_Alt, replace t detection, connection_chec of the function do_PD_Chec	k and an additio	onal 4PID method" with		e "PSE" with '		er". I believe that multiple location	t this (replacing F s.	PSE with pairset
	ert the following; "A: The PD			Proposed	Response	Response	Status Z		
	ididate for accepting power on both Alt-A and Alt-B simultar		he PD is a candidate	REJE	CT.				
Proposed Response	Response Status Z	,		This c	omment was	NITHDRAWN b	y the commente	er.	
REJECT.					or presentatio				
This comment was WITI	HDRAWN by the commente	r.			•				
wait for presentation				CI 33	SC 33.2.4	.5	P 215	L 2	# 257
wait for presentation				Dove, Dan	nel		Dove Network	king Solut	
C/ 33 SC 33.2.4.4 Dove, Daniel	P 212 Dove Network	<i>L</i> 52 ing Solut	# 255	<i>Comment</i> We ne	51	Comment 2det _timer into	t <i>Status</i> D this subclause.		Pres: S
comment Type TR	Comment Status D		Pres: SD	Suggested	dRemedy				
51	address pairset operation a	as independent f	or each pairset	Define	ed as:	Ũ	•		en the timer is done.
uggestedRemedy				Add to Define		or state diagram	to start, stop ar	nd/or identify whe	en the timer is done.
	elects Pairset operation and			tcc2de	et_timer - A tin	ner used to limit ction function is		m connection_cl	neck function being
	ent interface that may be ma			Proposed	Response	Response	Status Z		
equivalent functions.	B bits (11.9 and 11.8 respec	cuvery), as desc	nded below, of other	REJE	CT.				
	et function is defined by PSI set function is disabled	E Control registe	er bits 1:0	This c	omment was	WITHDRAWN b	y the commente	er.	
roposed Response	Response Status Z			Wait fo	or Presentatio	n.			
REJECT.									
This comment was WITI	HDRAWN by the commente	r.							
Wait for presentation									

C/ 33 SC 33.2.4.6 P 217 L 10 # 258	C/ 33 SC 33.2.4.7 P 221 L 1 # 260
Dove, Daniel Dove Networking Solut	Dove, Daniel Dove Networking Solut
Comment Type TR Comment Status D Pres: SD	Comment Type TR Comment Status D Pres: S
The values for the do_detection function don't align with my proposed pair-set control approach. Each detection is done by the pairset controller, thus only a single pairset is under consideration. This returns the function results to their original values. SuggestedRemedy	The latest proposal for theType 3 and Type 4 PSE State Diagram includes a higher-level hierarchical drawing, and an approach where each pairset is controlled independently for the case of a dual-signature PD, and/or a single pair-set controller (with both pairsets controlled by it).
delete Valid A, Valid B and Valid AB references.	SuggestedRemedy
Proposed Response Response Status Z	Insert the attached state diagrams with appropriate color changes and removal of comments as shown in T3T4PSEStateDiagramV1.3a.pptx.
REJECT.	Proposed Response Response Status Z
This comment was WITHDRAWN by the commenter.	REJECT.
Wait for presentation.	This comment was WITHDRAWN by the commenter.
C/ 33 SC 33.2.4.6 P 218 L 104 # 259	Wait for presentaiton
Dove, Daniel Dove Networking Solut	CI 33 SC 33.2.5 P 227 L 39 # 261
Comment Type TR Comment Status D Pres: SD	Dove, Daniel Dove Networking Solut
Based on the latest proposal for the state diagram, we need to add a function called do_PD_check.	Comment Type TR Comment Status A PSE Powerin
SuggestedRemedy Insert the following; do_PD_check_ This function initiates the PD_check in Section 33.2.5.0b. This function returns the following variable: PD_Alt: This variable indicates which pairsets are to be considered a candidate for accepting power from the PSE.	Regarding this Editor's Note: I believe that unless its imperative to support, having a SS Type 3 or Type 4 PD precludes powering off one pairset. The relevant issue is that the PSE State Diagram does not allow a single signature process to have different power states on the different pair-sets. Adding such would substantially increase complexity. Example; What state would a Type 3 PSE with single PS Control state machine, powering a single-signature PD be in if it removed power on one pairset while keeping power on the other?
Values: A - The PD is a candidate for receiving power on the Alt-A pairset. B - The PD is a candidate for receiving power on the Alt-B pairset.	SuggestedRemedy Remove the Editor's note and leave text as is.
Both - The PD is a candidate for receiving power on both the Alt-A and Alt-B pairsets simultaneously.	Response Response Status C
Proposed Response Response Status Z	ACCEPT.
REJECT.	
This comment was WITHDRAWN by the commenter.	

Wait for presentation

The words "that will deliver" suggest that power WILL be delivered on both pairsets. SuggestedRemedy Replace "that will deliver" with "capable of delivering". Response Response Status C REJECT. "that will deliver" is the intent of the sentence. If a type 3/4 PSE will only deliver power over 1 pairset, it does not need to do a connection check. Cf 33 SC 33.2.5 P 232 L 2 # 263 Dove, Daniel Dove Networking Solut Comment Type TR Comment Status D Pres: SD 4PID has been deprecated (in my proposal) by PD_Check. SuggestedRemedy Replace "APID" with "PD_Check" in all instances of text using search/replace, remove the TBD, delete "the detection state" and replace with "measurements on" and delete "mutual identification". Replace PD_Apair.candidate" with "PD_AIt". Proposed Response Response Status Z REJECT. This comment was WITHDRAWIN by the commenter. Proposed Response Response Status Z REJECT. This comment was WITHDRAWIN by the commenter. Wait for presentation. Wait for presentation. Wait for presentation. Wait for presentation.	C/ 33 SC 33.2.5 P 228 L 5 # 262 Dove, Daniel Dove Networking Solut	C/ 33 SC 33.2.7.1 P 244 L 43 # 264 Dove, Daniel Dove Networking Solut
Suggested/Remedy Replace "that will deliver" with "capable of delivering". Response Response Status Clippedice "that will deliver" with "capable of delivering". Replace "that will deliver" with "capable of delivering". "that will deliver" with "capable of delivering". Replace "that will deliver" with "capable of delivering". "that will deliver" is the intent of the sentence. If a type 3/4 PSE will only deliver power over 1 "that will deliver" with "capable of delivering". Cl 33 SC 33.2.5 P232 L 2 # [263] Comment Type TR Comment Type TR Comment Type TR Comment Type TR Comment Type TR Comment Status D Prescopable Suggested/Remedy Response Status Z Cl 33 SC 33.5.1.	Comment Type ER Comment Status R Connection Check	Comment Type TR Comment Status D PSE Powe
REJECT. "that will deliver" is the intent of the sentence. If a type 3/4 PSE will only deliver power over 1 pairset, if does not need to do a connection check. Cf 33 SC 33.2.5 P 232 L 2 # [263] Dove, Daniel Dove Networking Solut Proposed Response Response Status Z APID has been deprecated (in my proposal) by PD_Check. Pres: SD 4PID with "PD_Check" in all instances of text using search/replace, remove the TBD, delive "the detection state" and replace with "measurements on" and delete "mutual identification". Replace 74PID" with "PD_Check" in all instances of text using search/replace, remove the TBD, delive "the detection state" and replace with "PD_Ait". Proposed Response Proposed Response Response Status Z Response Status Z RELECT. This comment was WITHDRAWN by the commenter. Dove Networking Solut Wait for presentation. Suggested/Remedy Dove Networking Solut S Wait for presentation. Suggested/Remedy Insert row for bit 11.1 PS Disable A Insert row for bit 11.1 PS Disable B These bits dentify whether the PSE configuration. For instance, one pairset or B.If 0, the Enable bits apply and default behavior is to follow the order of bits 1.0 If 1, the PSI Enable bits apply and default behavior is to follow the order of bits 1.0 If 1, the PSI Enable bits apply and default behavior is to follow the order of bits 1.0 If 1, the PSI Enable bits apply and default behavior is to follow	SuggestedRemedy	interoperability problems that may occur if a PSE suddenly removes power from one pair- set, and also how to deal with applying power to that pairset without creating stability
*that will deliver' is the intent of the sentence. If a type 3/4 PSE will only deliver power over 1 pairset, it does not need to do a connection check. CI 33 SC 33.2.5 P 232 L 2 # [263] Dove, Daniel Dove Networking Solut Pres: SD APID has been deprecated (in my proposal) by PD_Check. Pres: SD SuggestedRemedy Replace 'APID' with "PD_Check' in all instances of text using search/replace, remove the TBD, delete 'the detection state' and replace with "measurements on' and delete "mutual identification". Replace PD_4pair candidate' with "PD_AIt". Progosed Response Response Status D Pres: SD Proposed Response Response Status Z # [263] Dove, Daniel Dove Networking Solut Proposed Response Replace PD_4pair candidate' with "PD_AIt". Progosed Response Response Status Z REJECT. This comment was WITHDRAWN by the commenter. Dove, Daniel Dove Networking Solut Vait for presentation. Signature and the solut of the text of each pairset in depaded with the other enabled or in forced-power mode. Suggested/Remedy Insert row for bit 11.9 PS Disable A Insert row for bit 11.9 PS Disable A Insert row for bit 11.9 PS Disable A Insert row for bit 11.9 PS Disable A Insert row for bit 11.9 PS Disable A<		
Dove, Daniel Dove Networking Solut Comment Type TR Comment Status D Pres: SD 4PID has been deprecated (in my proposal) by PD_Check. SuggestedRemedy Replace "4PID" with "PD_Check" in all instances of text using search/replace, remove the TBD, delete "the detection state" and replace with "measurements on" and delete "mutual identification". Replace PD_4pair_candidate" with "PD_AIt". Proposed Response Response Status Z Image: Solution State Solution State Solution State Solution State Solution Solutin Solution Solution Solution Solution Solution Solution	"that will deliver" is the intent of the sentence. If a type 3/4 PSE will only deliver power over	Proposed Response Response Status Z
Comment Type TR Comment Status D Pres: SD 4PID has been deprecated (in my proposal) by PD_Check. SuggestedRemedy Replace "4PID" with "PD_Check" in all instances of text using search/replace, remove the TBD, delete "the detection state" and replace with "measurements on" and delete "mutual identification". Replace PD_4pair_candidate" with "PD_LIt". C/ 33 SC 33.5.1.1 P 292 L 52 # 265 Proposed Response Response Status Z Comment Type TR Comment Status D Pres: Classical Comment Status D <td></td> <td></td>		
4PID has been deprecated (in my proposal) by PD_Check. SuggestedRemedy Replace "4PID" with "PD_Check" in all instances of text using search/replace, remove the TBD, delete "the detection state" and replace with "measurements on" and delete "mutual identification". Replace PD_4pair_candidate" with "PD_AIt". Proposed Response REJECT. REJECT. This comment was WITHDRAWN by the commenter. Veneed bits in the PSE Control Register that control the state of each pairset independently from the overall PSE configuration. For instance, one pairset could the disabled while the other enabled or in forced-power mode. SuggestedRemedy REJECT. SuggestedRemedy Nait for presentation. Presentation. Wait for presentation. PS Disable A Insert row for bit 11.9 PS Disable B These bits identify whether the PSE Enable bits apply to the pairset is disabled. Note: 1 chose this polarity to ke consistent with existing implementations where those bits 1.0. If 1, the PSI Enable bits apply and depaired it disabled. Note: 1 chose this polarity to ke consistent with existing implementations where those bits would naturally be zero y pairset operation functions based upon the bits in values 1.0. Additional note: For T and Type 4 PSEs, note would expect the bits 1.0 to control both pairsets the same when attached to a Type 3/4 SS PD This can be done by setting bits3.2 to 11' An alternative approach to this would be to define separate registers for PS_AltA and a or identify them as local registers per pairset.	-	Do you know of any stability or interoperability problems that may occur.
Replace "4PID" with "PD_Check" in all instances of text using search/replace, remove the TBD, delete "the detection state" and replace with "measurements on" and delete "mutual identification". Replace PD_4pair_candidate" with "PD_Alt". Dove, Daniel Dove Networking Solut Proposed Response Response Status Z REJECT. This comment was WITHDRAWN by the commenter. Promosed Response Response Status Z Wait for presentation. We need bits in the PSE Control Register that control the state of each pairset independently from the overall PSE configuration. For instance, one pairset could the disabled while the other enabled or in forced-power mode. SuggestedRemedy Neert to for bit 11.9 PS Disable A Insert row for bit 11.8 PS Disable A Insert row for bit 11.8 PS Disable A Insert row for bit 11.8 PS Disable A Insert row for bit 11.8 PS Disable A Insert row for bit 11.9 PS Disable A Insert row for bit 11.9 Note: I chose this polarity to ke consistent with existing implementations where those bits would naturally be zero y Insert row for bit 12.9 PS 34 SS PD This can be done by setting bits3:2 to '11' An alternative approach to this would be to define separate registers for PS_AltA and I or identify them as local registers per pairset.		There are many systems that already do this
TBD, delete "the detection state" and replace with "measurements on" and delete "mutual identification". Replace PD_4pair_candidate" with "PD_Alt". Comment Type TR Comment Status D Press Proposed Response Response Status Z We need bits in the PSE Control Register that control the state of each pairset independently from the overall PSE configuration. For instance, one pairset could the disabled while the other enabled or in forced-power mode. Wait for presentation. SuggestedRemedy Insert row for bit 11.9 PS Disable A Wait for presentation. Insert row for bit 11.8 PS Disable A Insert row for bit 11.8 PS Disable A Insert row for bit 11.8 PS Disable A Insert row for bit 11.8 PS Disable A Insert row for bit 11.8 PS Disable A Insert row for bit 11.8 PS Disable A Insert row for bit 11.8 PS Disable A Insert row for bit 11.8 PS Disable A Insert row for bit 12.0 PS Disable A Insert row for bit 12.0 Insert row for bit 12.0 In the PSE control Register the done by setting blast 2.0 If the PSE is not blast 2.0 Insert row for bit 12.0 PS Disable A Insert row for bit 12.0 PS Disable A Insert row for bit 12.0 PS Disable A Insert row for bit 12.0 PS Disable A Insert row for bit 12.0 <td>SuggestedRemedy</td> <td>Cl 33 SC 33.5.1.1 P 292 L 52 # 265</td>	SuggestedRemedy	Cl 33 SC 33.5.1.1 P 292 L 52 # 265
identification". Replace PD_4pair_candidate" with "PD_Alt". Proposed Response Response Status Z REJECT. This comment was WITHDRAWN by the commenter. Wait for presentation. Wait for presentation. Wait for presentation. Wait for presentation. Wait for presentation. Provide the status of the presentation of the presentati		Dove, Daniel Dove Networking Solut
Proposed Response Response Status Z REJECT. We need bits in the PSE Control Register that control the state of each pairset independently from the overall PSE configuration. For instance, one pairset could be disabled while the other enabled or in forced-power mode. This comment was WITHDRAWN by the commenter. SuggestedRemedy Wait for presentation. Insert row for bit 11.9 PS Disable A Insert row for bit 11.8 PS Disable B These bits identify whether the PSE Enable bits apply to the pairset A or B. If 0, the Enable bits do not apply and default behavior is to follow the order of bits 11.0. If 1, the PSI Enable bits do not apply and the pairset is disabled. Note: I chose this polarity to ke consistent with existing implementations where those bits would naturally be zero y pairset operation functions based upon the bits in values 1:0. Additional note: For T and Type 4 PSEs, one would expect the bits 1:0 to control both pairsets the same when attached to a Type 3/4 SS PD This can be done by setting bits3:2: to '11' An alternative approach to this would be to define separate registers for PS_AltA and I or identify them as local registers per pairset.		Comment Type TR Comment Status D Pres: PSE S
Insection was with bit was with bit we commented. Wait for presentation. Wait for presentation. Insert row for bit 11.9 PS Disable A Insert row for bit 11.8 PS Disable B These bits identify whether the PSE Enable bits apply to the pairset A or B. If 0, the Enable bits apply and default behavior is to follow the order of bits 1:0. If 1, the PSI Enable bits do not apply and the pairset is disabled. Note: I chose this polarity to ke consistent with existing implementations where those bits would naturally be zero y pairset operation functions based upon the bits in values 1:0. Additional note: For T and Type 4 PSEs, one would expect the bits 1:0 to control both pairsets the same when attached to a Type 3/4 SS PD This can be done by setting bits3:2 to '11' An alternative approach to this would be to define separate registers for PS_AltA and I or identify them as local registers per pairset. Proposed Response Response Response Status Z	Proposed Response Response Status Z	independently from the overall PSE configuration. For instance, one pairset could be
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Task Force to discuss		Task Force to discuss

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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

57V

CI 33	SC 33.3.1	P 255	L 51	# 271
Jones, Chad		Cisco		

Comment Type **T** Comment Status **D** 55 Still looking for the proper wording for the understood implied specification: "The PD shall withstand any voltage from 0 V to 57 V at the PI indefinitely without permanent damage."

SuggestedRemedy

Type 1 and Type 2 PDs shall withstand any voltage from 0V to 57V at the PI indefinitely without permanent damage.

Type 3 and Type 4 PDs shall withstand any voltage or combination of voltages from 0V to 57V across any polarity combination of the Mode A pairset, the Mode B pairset, and both Mode A and Mode B pairsets (defined in Table 33-13) indefinitely without permanent damage.

These tests shall be run with the two conductors of each tested pair at the same voltage potential.

Proposed Response Response Status Z REJECT.

This comment was WITHDRAWN by the commenter.

Task Force to discuss.

This language would cause problems for the "half active bridge" implementation that is commonly used.