Cl 00 SC P	L	# 197	C/ 1	SC 1	1.4	P 18	L 17	# 198
Dwelley, David Linear 7	Technology		Dwelley, Da	avid		Linear Tec	hnology	
Comment Type TR Comment Status )	ĸ	PD Power	Comment 7	Гуре	ER	Comment Status D		
Resubmitted comment from D1.0: Table 33-18: Several symbols have -2p addee an AT device that claims to meet Vport_pd wi New titles with "per pair set" can stay, as all v pairset.	II not find a spec with	h that name anymore.	standar errors. better. someth	rd, and The ori I prefer ning else	combining ginal mo the term e. A sea	e with "pair set". "Pair" and ng them this way is non-ur tion in September 2014 ca n "pairset" - it's a new, uniq rch of 802.3-2012 finds zer	ique and subject t Iled out "pair-set", ue word and isn't	to search-and-replace , but that isn't much likely to be mistaken for
SuggestedRemedy			Suggestedl			airset" throughout the draf	ł	
Remove -2p suffixes from Table 33-18, Items	1-3		Proposed F	•		Response Status W		
Proposed Response Response Status V I would like to hear the group's opinion on this			,	,		IN PRINCIPLE.		
			OBE by	y comm	nent # 16	6.		
C/         00         SC         0         P           Walker, Dylan         Cisco	L	# 166	EZ					
Comment Type E Comment Status Comment Status	-	Editorial	C/ <b>33</b> Yseboodt, I	SC <b>(</b> Lennart	-	Р <b>0</b> Philips	L <b>0</b>	# 10
SuggestedRemedy			Comment 7	Гуре	Е	Comment Status D		Editoria
Replace all instances of "pair set" with "pairse		hever the TF prefers.			lingering air-to-pa	occurences or "pair to pair".	r" or other variants	s which need
Proposed Response Response Status V PROPOSED ACCEPT IN PRINCIPLE.	N		Suggestedl	Remedy	V			
The task force would like to use "pairset".			Replac - page - page - page	100, lin 101, lin	e 5			
			Proposed F	Respon	se	Response Status W		
			PROPO	OSED A	ACCEPT	•		
			EZ					

CI 33 SC 0

C/ 33 SC 33	P 19	<i>L</i> 1	# 167	C/ 33 SC 33.1.1	P <b>20</b>	L <b>5</b>	# 128
Walker, Dylan	Cisco			Shariff, Masood	CommScope		
Comment Type ER	Comment Status D		Editorial	Comment Type T	Comment Status X		Cabling
Section header woun	nd up with "Autoclass" inserted	within "Depende	ent" somehow.	The sentence below	is confusing and does not inclu	de TIA specifica	ations.
"33. Data Terminal E (MDI)"	quipment (DTE) Power via Me	dia DepAutoclas	ssendent Interface	operation requires IS	uires ISO/IEC 11801:1995 Clas O/IEC 11801:2002 Class D or I		
SuggestedRemedy				cabling maximum an	bient operating temperature.		
Replace with "33. Da (MDI)"	ta Terminal Equipment (DTE)	Power via Media	a Dependent Interface	SuggestedRemedy Rewrite the sentence	s as shown below:		
Proposed Response PROPOSED ACCEF EZ C/ 33 SC 33.1.1	Response Status W PT.	1	# 159	with the additional re These requirements ANSI/TIA/EIA-568-A 568-C.2. Type 3 ope	uires Class D or better cabling quirement that channel DC loop are also met by Category 5 cab and Category 5e or better cabl ration requires Class D or better	o resistance sha ble and compon ing components er cabling as sp	all be 25 ohms or less. ents as specified in s specified in ANSI/TIA- ecified in ISO/IEC
Balasubramanian, Kouss	•	-	" 100	components	requirements are also met by C	Category 5e or b	etter cable and
Comment Type ER	Comment Status D		Editorial	Proposed Response	Response Status W		
	and derating of the cabling mains the full sentence, doesnt imp			This is different from like to hear the group	5 other comments on the same 's opinion.	e thing (in the ea	asy bucket). I would
SuggestedRemedy							
Make the last statem clear.	ent "derating" separate sent	ence and include	e type 3 and 2 to be				
	ld read " class D or better ca perating temperature is neede						
Proposed Response PROPOSED ACCEF	Response Status W						

ΕZ

C/ 33 SC 33.1.1

C/ 33 SC 33.1.1	P 20	L <b>5</b>	# 11		C/ 33	SC 33	3.1.1		P <b>20</b>	L <b>5</b>	# 168
seboodt, Lennart	Philips				Walker, Dy	/lan		Ci	sco		
comment Type E	Comment Status D			Editorial	Comment	Туре	ER	Comment Stat	us <b>D</b>		Editori
	no significant requirements on requires ISO/IEC 11801		r better cabling	, and	This se	entence is	s a bit c	onfusing.			
cabling	IEC 11801:2002 Class D c	or better cabling,	and a derating	of the	operati	ion requir	res ISO/		Class D or		abling, and Type 3 nd a derating of the
maximum ambient oper	aling temperature.				Suggested	Remedy					
It is not clear if the dera	ting refers to both Type 2 a	and Type 3, or o	nly to Type 3.		To kee	ep the leg	асу Тур	e 2 requirement o	clear, sepa	rate into 2 senter	nces.
	no significant requirements on requires ISO/IEC 11801		r better cabling	, and	the cat 11801:	bling max	kimum a ass D or	mbient operating better cabling an	temperatu	ire. Type 3 operat	abling and a derating of tion requires ISO/IEC naximum ambient
	IEC 11801:2002 Class D c	or better cabling,	both require a o	derating	Proposed F	Response	е	Response Stat	us W		
of the cabling maximum ambient oper	ating temperature."				PROP	OSED AG	CCEPT	IN PRINCIPLE.			
roposed Response	Response Status W				OBE b	y comme	ent # 159	9.			
PROPOSED ACCEPT I	-				EZ						
OBE by comment # 159					C/ 33	SC 33	3.1.1		P 20	L <b>5</b>	# 246
EZ					Zimmerma				/E Consu	-	
					Comment	Туре '	т	Comment Stat	us <b>D</b>		Editori
					operati cabling Change	ion requir g maximu e inadver	res ISO/ im ambi rtently re		Class D or perature."	better cabling, a	abling, and Type 3 nd a derating of the res reduction in
					Suggested	Remedy					
					"Type 2 operati	ion requir	on requi res ISO/	ires ISO/IEC 1180	Class D or	better cabling. 1	abling, and Type 3 Fype 2 and Type 3 Ibient operating
					Proposed I	Response	е	Response Stat	us W		
					PROP	OSED AG	CCEPT	IN PRINCIPLE.			
					OBE b	y comme	ent # 159	9.			

C/ 33 SC 33.1.1

C/ 33 SC 33.1.3 Walker, Dylan	<i>P</i> <b>21</b> Cisco	L <b>45</b>	# 169	C/ <b>33</b> SC <b>33.1.4</b> Walker, Dylan	P <b>22</b> Cisco	L <b>27</b>	# 170
SuggestedRemedy Since there were missi if this is an isolated and Proposed Response PROPOSED ACCEPT It may be because we	Response Status W	ld like to ask the	Editorial editor to double-check	11801:2002), but we sp in alignment with legacy SuggestedRemedy	Comment Status D fy the Minimum Cabling Typ ecify ISO/IEC 11801:1995 in r text. flect Class D (ISO/IEC 1180 Response Status W	n Section 33.1.1 a	and Section 33.1.4.1,
EZ C/ 33 SC 33.1.4	P 22	L 17	# 12	C/ <b>33</b> SC <b>33.1.4</b> Dwelley, David	P <b>22</b> Linear Techn	L 34	# 199
Yseboodt, Lennart	Philips			Comment Type T	Comment Status D		Cabling
Table 33-1 caption"Sys parameters Vs System Inconsistent capitalizat SuggestedRemedy "System power parame	ion.	system Type" "Sy	rstem Power	pair resistance unbalan Channel unbalance is ir	Section 33.1.4.2. See inforr ce. nportant but doesn't belong neters. Section 33.1.4.1 (Ca	in this note - this	note covers Cabling
, , ,				SuggestedRemedy			
Proposed Response PROPOSED ACCEPT	Response Status W			Change note 1 to: See	Sections 33.1.4.1 and 33.1.4	4.2.	
EZ				Proposed Response PROPOSED ACCEPT.	Response Status W		
C/ 33 SC 33.1.4 Yseboodt, Lennart	P <b>22</b> Philips	L <b>21</b>	# 13				
Comment Type E Icable, A is not bold	Comment Status D		Editorial				
SuggestedRemedy Icable, A in bold text							
Proposed Response PROPOSED ACCEPT	Response Status W						
F7							

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: Clause, Subclause, page, line

C/ 33 SC 33.1.4

C/ 33       SC 33.1.4       P 22       L 34       # 247       C/ 33       SC 33.1.4       P 22         Zimmerman, George       CME Consulting, Inc.       CME Consulting, Inc.       Shariff, Masood       Commsc         Comment Type       T       Comment Status       D       Cabling       Comment Type       T       Comment Status       X         (note 2)"In Type 3 and Type 4 operation, the current per pair set might be impacted by pair-       Cabling       Comment Type       T       Comment Status       X	L <b>45</b> ope	# 127				
Comment Type     T     Comment Status     D     Cabling     Comment Type     T     Comment Status     X	ope					
(note 2)"In Type 3 and Type 4 operation, the current per pair set might be impacted by pair-		Cabling				
to-pair system resistance unbalance. See details in 33–11 item 4a." The first sentence of the note gives no guidance, the column already says nominal. Reference to 33-11 lacks proper identifier (>>Table<< 33-11), and information as to what to find there. Baseed on initial information received from IEEI studied and specified in drafts ISO/IEC TR 2912 per pair with all 4 pairs powered. Repeating the time and effort.	25 Ed2 and TIA TSI	B 184-A are 1000 mA				
SuggestedRemedy SuggestedRemedy						
Strike "In Type 3 and Type 4 operation, the current per pair set might be impacted by pair- to-pair system resistance unbalance." Adjust the maximum lcont-2p_unb from 1087 m	A to 1000 mA in th	e Editors note:				
Replace "See details in 33-11 item 4a." with Type 4: Icont-2p=865mA, Icont-2p_unb=1087m	A					
"For details on resistance unbalance effects, see Table 33-11 item 4a." Proposed Response Response Status W	Proposed Response Response Status W					
Proposed Response Response Status W I believe Yair is working to lower this number. I	I believe Yair is working to lower this number. I would like to hear from him.					
PROPOSED ACCEPT IN PRINCIPLE.						
OBE by comment # 200						
CI 33 SC 33.1.4 P 22 L 35 # 200						
Dwelley, David Linear Technology						
Comment Type T Comment Status D Cabling						
Table 33-1 Note 2: "In Type 3 and Type 4 operation, the current per pair set might be impacted by pair-to-pair system resistance unbalance. See details in 33–11 item 4a"						
"might" isn't strong enough, and the reference is too narrow						
"might" isn't strong enough, and the reference is too narrow SuggestedRemedy Change Note 2 to: "In Type 3 and Type 4 operation, the current per pair set will be impacted by pair-to-pair system resistance unbalance. See Section 33.2.7.4a." (fix reference when finalized)						

PROPOSED ACCEPT.

CI 33 SC 33.1.4

CI 33	SC 33.1.4	P <b>22</b>	L <b>6</b>	# 4	C/ 3
Jones, Cl	had	Cisco			Shar
Commen	t Type <b>T</b>	Comment Status X		Cabling	Com

Maintenance Request #1271, on behalf of GEOFF THOMPSON, GRACASI S.A./LINEAR TECHNOLOGY

Move as much of the cabling specification to cabling documents as possible. (This RR was entered as a tracking mechanism for Thompson Comment #59 against P802.3REVbx/D2.0 during initial WG ballot. Resolution of this comment was given over to P802.3bt as they will have Cl 33 open.)

### SuggestedRemedy

See attached sheet for proposed new text.

(http://www.ieee802.org/3/maint/requests/maint\_1271.pdf, page 2)

A number of these changes have already been adopted. The two remaining changes are: Replacing the first sentence in 33.1.4 with:

"A power system, consists of a single PSE, a single PD and the link section connecting them. A power system is

characterized as Type 1 or Type 2 by lowest type number of the PSE or PD in the system, see Table 33–1."

and replacing the first paragraph of 33.1.4.1 with (as well as changing the title of the subclause to "Cabling requirements"):

"The supply of power over the data connection is intended to operate with no additional requirements to the cabling that is

normally installed for data usage. This is approximately true but may require some further attention. Power at Type 1

power levels may be transmitted over all specified premises cabling without further restrictions. Higher power 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."

specified in ANSI/ HA/EIA-566-A.

Proposed Response Response Status W

Waiting for Yair to review.

C/ 33	SC 33.1.4	P 23	L 13	# 126
Shariff, N	lasood	CommScope		
Commen	t Type <b>T</b>	Comment Status X		

Comment: text incorrectly identifies ISO/IEC 11801:2002 as lacking the additional requirement on DC loop resistance, this applies to ISO/IEC 11801:1995, but not 2002. Additionally, specification does not imply which requirements link to Cat 5e and which to cat 5, or, if they are all the same.

### SuggestedRemedy

rewrite as follows:

Type 2 operation requires Class D or better cabling as specified in ISO/IEC 11801:1995 with the additional requirement that channel DC loop resistance shall be 25 ohms or less. These requirements are also met by Category 5 cable and components as specified in ANSI/TIA/EIA-568-A and Category 5e or better cabling components specified in ANSI/TIA/568-C.2. Type 3 operation requires Class D or better cabling as specified in ISO/IEC 11801:2002. These requirements are also met by Category 5e or better cable and components specified in ANSI/TIA-568-C.2.

Proposed Response		Response Status O		
C/ 33	SC 33.1.4.1	P 23	L 12	# 69
Ysebood	t, Lennart	Philips		
<u></u>	·			

Comment Type T Comment Status X

"Type 2 operation requires Class D, or better, cabling as specified in ISO/IEC 11801:1995, and Type 3 operation requires Class D or better cabling as specified in ISO/IEC 11801:2002"

Is inconsistent with Table 33-1 which refers to the 2002 version of ISO/IEC 11801 for Type 2.

Note: if we choose for different cable requirements between Type 2 and Type 3, we hint to the

user that these are not interoperable between Type 2 and Type 3. Probably not what we want.

### SuggestedRemedy

TF to discuss how to make consistent.

Proposed Response Response Status **O** 

CI <b>33</b>		33.1.4.1		P <b>23</b>	L 13	# 248	C/ 33		33.1.4.1	P <b>23</b>	L 15	# 14
Zimmerm	an, Geo	rge	(	CME Consulti	ing, Inc.		Yseboodt	, Lennai	rt	Philips		
Commen	t Type	TR	Comment St	tatus X			Comment	t Type	Е	Comment Status X		
IEC 1	1801:19	95, and T	ype 3 operatior	n requires Cla		abling as specified in			itional requ ween 25Of	iirement that channel DC loo nm	p resistance sha	all be 250hm or less."
						DC loop resistance shall ie or better cable and	Suggeste	dReme	dy			
						and components as	25 Oł	nm (add	space)			
speci	fied in A	NSI/TIA/E	IA-568-A."				Proposed	l Respoi	nse	Response Status 0		
						esistance requirements uirements for type 2 and						
						the ordering of the	C/ 33	SC	33.1.4.1	P 23	L 19	# 249
equiv	alence t	o TIA spe	cs is reversed f	rom the ISO s	specs, adding to	the confusion.	Zimmerm	an, Geo	orge	CME Consulti	ing, Inc.	
Suggeste	dRemed	ly					Comment	t Type	TR	Comment Status X		
"Type IEC 1 25 <i>f</i> Ç speci speci	2 opera 1801:19 or less. fied in A fied in IS	ition requi 95, with tl These re NSI/TIA/E	he additional re equirements are IA-568-A. Typ	• better, cablir equirement that e also met by e 3 operation ese requireme	ng as specified in at channel DC lo Category 5 cabl requires Class l ents are also me	n ISO/ op resistance shall be e and components as D or better cabling as t by Category 5e or	the m energ opera Additi	aximum jized at ating tem ional cal	n ambient o ICable (see nperature o ble ambier	litions, Type 2 and Type 3 op operating temperature of the e Table 33–1), or a 5 °C redu of the cable when half of the nt operating temperature guid n ISO/IEC TR 29125 [B49]1	cable when all c uction in the may cable pairs are e delines for Type	able pairs are kimum ambient energized at ICable. 2, Type 3, and Type 4
Proposed	l Respor	se	Response St	atus <b>O</b>			cablin	ng stand	lards (TIA-	specifying the installation co TSB-184-A and the ISO TR) peration, which is 2 pairs in a	•	
				<b>D</b> = -						half the cable pairs?	a 4 pair sneath c	VER have all cable
Cl 33		33.1.4.1		P 23	L 15	# 160	Suggeste	dReme	dy			
	<i>t Type</i> statemer	ER t "with t	Comment Sinhe additional re	equirement the		oop resistance shall be it applies to both Type	"Redu and T opera	ype 3 o tion, a l	the maxim peration. Ness reduct	num ambient operational ten When half the cable pairs ard ion is required. For details o emperature rise associated v	e energized, as i on the effects of i	s the case in 2 pair nstallation conditions

### SuggestedRemedy

Make "with the additional requirement that channel DC loop resistance shall be 250hms or less" into a separate sentence and add Type 2 and Type 3 explicitly. The new sentence would be - "The additional requirement that channel DC loop resistance shall be 250hms or less shall be met for Type 2 and Type 3 operation".

Proposed Response Response Status 0

Proposed Response

CI 33 SC 33.1.4.1

Response Status 0

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

C/ <b>33</b> SC <b>33.1.4.1</b> P <b>23</b> L <b>24</b> # 161 Balasubramanian, Koussalya self	C/ 33 SC 33.2.2 P 25 L 40 # 171 Walker, Dylan Cisco
Comment Type ER Comment Status X	Comment Type E Comment Status X
Type 4 details are missing.	Misplaced comma in "A Midspan PSE that results in a link that can support 1000BASE-
SuggestedRemedy	and 10GBASE-T operation and optionally support 10BASE-T and 100BASE-TX operation
Add an editor's note to include Type 4 details.	(see Figure 33–7)."
Proposed Response Response Status <b>O</b>	SuggestedRemedy
	Replace with "A Midspan PSE that results in a link that can support 1000BASE-T and 10GBASE-T operation, and optionally support 10BASE-T and 100BASE-TX operation (s Figure 33–7)."
C/ 33 SC 33.1.4.1 P 24 L 12 # 70	Proposed Response Response Status <b>O</b>
/seboodt, Lennart Philips	
Comment Type T Comment Status X	C/ 33 SC 33.2.2 P 28 L 17 # 250
"Type 3 operation requires Class D or better cabling as specified in ISO/IEC 11801:20 Does this not also apply to Type 4 ?	O2"         C/ 33         SC 33.2.2         P 28         L 17         # [250]           Zimmerman, George         CME Consulting, Inc.
SuggestedRemedy	Comment Type TR Comment Status X
"Type 3 and Type 4 operation requires Class D or better cabling as specified in ISO/IE	
11801:2002"	location overview"
	•
11801:2002"	location overview" Title of figure 33-5a is inconsistent with other titles, (33-5b, 33-7a, and 33-7b), shoudl
11801:2002"	location overview" Title of figure 33-5a is inconsistent with other titles, (33-5b, 33-7a, and 33-7b), shoudl reference 4 pair operation. SuggestedRemedy Change title of figure 33-5a is to be consistent with other titles, (33-5b, 33-7a, and 33-7b)
11801:2002" Proposed Response Response Status O	location overview" Title of figure 33-5a is inconsistent with other titles, (33-5b, 33-7a, and 33-7b), shoudl reference 4 pair operation. SuggestedRemedy Change title of figure 33-5a is to be consistent with other titles, (33-5b, 33-7a, and 33-7b "Figure 33–5a—10BASE-T/100BASE-TX 4-Pair Endpoint PSE location overview"
11801:2002"       Proposed Response       Response Status       O         Proposed Response       Response Status       O         Cl 33       SC 33.2       P 25       L 4       # 201	location overview" Title of figure 33-5a is inconsistent with other titles, (33-5b, 33-7a, and 33-7b), shoudl reference 4 pair operation. SuggestedRemedy Change title of figure 33-5a is to be consistent with other titles, (33-5b, 33-7a, and 33-7b)
11801:2002"       Proposed Response       Response Status       O         Cl 33       SC 33.2       P 25       L 4       # 201         Dwelley, David       Linear Technology       Comment Type       T       Comment Status       X         Note 3: "1-Event Classification of Type 3 is different from Type 1. Please refer to Table       Status       Status       Status	location overview"         Title of figure 33-5a is inconsistent with other titles, (33-5b, 33-7a, and 33-7b), shoull reference 4 pair operation.         SuggestedRemedy         Change title of figure 33-5a is to be consistent with other titles, (33-5b, 33-7a, and 33-7b, "Figure 33–5a—10BASE-T/100BASE-TX 4-Pair Endpoint PSE location overview"         Proposed Response       Response Status       O
11801:2002"     Proposed Response     Response Status     O       Cl 33     SC 33.2     P 25     L 4     # 201       Dwelley, David     Linear Technology       Comment Type     T     Comment Status     X	location overview"         Title of figure 33-5a is inconsistent with other titles, (33-5b, 33-7a, and 33-7b), shoull reference 4 pair operation.         SuggestedRemedy         Change title of figure 33-5a is to be consistent with other titles, (33-5b, 33-7a, and 33-7b, "Figure 33–5a—10BASE-T/100BASE-TX 4-Pair Endpoint PSE location overview"         Proposed Response       Response Status       O
11801:2002"       Proposed Response       Response Status       O         Proposed Response       Response Status       O         Cl 33       SC 33.2       P 25       L 4       # 201         Dwelley, David       Linear Technology       Comment Type       T       Comment Status       X         Note 3: "1-Event Classification of Type 3 is different from Type 1. Please refer to Table 33–10 items 11, 12 and Section 33.2.6.1 for details."       For details."	location overview" Title of figure 33-5a is inconsistent with other titles, (33-5b, 33-7a, and 33-7b), shoudl reference 4 pair operation. SuggestedRemedy Change title of figure 33-5a is to be consistent with other titles, (33-5b, 33-7a, and 33-7b "Figure 33–5a—10BASE-T/100BASE-TX 4-Pair Endpoint PSE location overview" Proposed Response Response Status O Cl 33 SC 33.2.2 P 28 L 17 # 172 Walker, Dylan Cisco
11801:2002"       Proposed Response       Response Status       O         Cl 33       SC 33.2       P 25       L 4       # 201         Cuelley, David       Linear Technology       Linear Technology         Comment Type       T       Comment Status       X         Note 3: "1-Event Classification of Type 3 is different from Type 1. Please refer to Table 33–10 items 11, 12 and Section 33.2.6.1 for details."       Marginal grammar, and Section 33.2.6.1, while covering 1-event classification, doesn't	location overview" Title of figure 33-5a is inconsistent with other titles, (33-5b, 33-7a, and 33-7b), shoudl reference 4 pair operation. SuggestedRemedy Change title of figure 33-5a is to be consistent with other titles, (33-5b, 33-7a, and 33-7b "Figure 33–5a—10BASE-T/100BASE-TX 4-Pair Endpoint PSE location overview" Proposed Response Response Status O Cl 33 SC 33.2.2 P 28 L 17 # 172 Walker, Dylan Cisco
11801:2002"       Proposed Response       Response Status       O         Cl 33       SC 33.2       P 25       L 4       # 201         Dwelley, David       Linear Technology       D         Comment Type       T       Comment Status       X         Note 3: "1-Event Classification of Type 3 is different from Type 1. Please refer to Table 33–10 items 11, 12 and Section 33.2.6.1 for details."       Marginal grammar, and Section 33.2.6.1, while covering 1-event classification, doesn't make any mention of the differences between Types 1 and 3	location overview" Title of figure 33-5a is inconsistent with other titles, (33-5b, 33-7a, and 33-7b), shoudl reference 4 pair operation. SuggestedRemedy Change title of figure 33-5a is to be consistent with other titles, (33-5b, 33-7a, and 33-7b "Figure 33–5a—10BASE-T/100BASE-TX 4-Pair Endpoint PSE location overview" Proposed Response Response Status O C/ 33 SC 33.2.2 P 28 L 17 # 172 Walker, Dylan Cisco Comment Type ER Comment Status X "Figure 33–5a—10BASE-T/100BASE-TX Alternative A and Alternative B Endpoint PSE
11801:2002"       Proposed Response       Response Status       O         Cl 33       SC 33.2       P 25       L 4       # 201         Dwelley, David       Linear Technology       Divelley, David       Linear Technology         Comment Type       T       Comment Status       X         Note 3: "1-Event Classification of Type 3 is different from Type 1. Please refer to Table 33–10 items 11, 12 and Section 33.2.6.1 for details."       Marginal grammar, and Section 33.2.6.1, while covering 1-event classification, doesn't make any mention of the differences between Types 1 and 3         SuggestedRemedy       SuggestedRemedy	location overview" Title of figure 33-5a is inconsistent with other titles, (33-5b, 33-7a, and 33-7b), shoudl reference 4 pair operation. SuggestedRemedy Change title of figure 33-5a is to be consistent with other titles, (33-5b, 33-7a, and 33-7b "Figure 33–5a—10BASE-T/100BASE-TX 4-Pair Endpoint PSE location overview" Proposed Response Response Status O C/ 33 SC 33.2.2 P 28 L 17 # 172 Walker, Dylan Cisco Comment Type ER Comment Status X "Figure 33–5a—10BASE-T/100BASE-TX Alternative A and Alternative B Endpoint PSE location overview"
11801:2002"       Proposed Response       Response Status       O         Cl 33       SC 33.2       P 25       L 4       # 201         Dwelley, David       Linear Technology       D         Comment Type       T       Comment Status       X         Note 3: "1-Event Classification of Type 3 is different from Type 1. Please refer to Table 33–10 items 11, 12 and Section 33.2.6.1 for details."       Marginal grammar, and Section 33.2.6.1, while covering 1-event classification, doesn't make any mention of the differences between Types 1 and 3	location overview" Title of figure 33-5a is inconsistent with other titles, (33-5b, 33-7a, and 33-7b), shoudl reference 4 pair operation. SuggestedRemedy Change title of figure 33-5a is to be consistent with other titles, (33-5b, 33-7a, and 33-7b "Figure 33–5a—10BASE-T/100BASE-TX 4-Pair Endpoint PSE location overview" Proposed Response Response Status O C/ 33 SC 33.2.2 P 28 L 17 # 172 Walker, Dylan Cisco Comment Type ER Comment Status X "Figure 33–5a—10BASE-T/100BASE-TX Alternative A and Alternative B Endpoint PSE location overview"
11801:2002"       Proposed Response       Response Status       O         Cl 33       SC 33.2       P 25       L 4       # 201         Dwelley, David       Linear Technology       D         Comment Type       T       Comment Status       X         Note 3: "1-Event Classification of Type 3 is different from Type 1. Please refer to Table 33–10 items 11, 12 and Section 33.2.6.1 for details."       Marginal grammar, and Section 33.2.6.1, while covering 1-event classification, doesn't make any mention of the differences between Types 1 and 3         SuggestedRemedy       Change Note 3 to: "1-Event Classification differs between Types. Please refer to Table	Iocation overview"       Title of figure 33-5a is inconsistent with other titles, (33-5b, 33-7a, and 33-7b), shoull reference 4 pair operation.         SuggestedRemedy       Change title of figure 33-5a is to be consistent with other titles, (33-5b, 33-7a, and 33-7b, "Figure 33–5a—10BASE-T/100BASE-TX 4-Pair Endpoint PSE location overview"         Proposed Response       Response Status       O         C/ 33       SC 33.2.2       P 28       L 17       # [172]         Walker, Dylan       Cisco         Comment Type       ER       Comment Status       X         "Figure 33–5a—10BASE-T/100BASE-TX Alternative A and Alternative B Endpoint PSE location overview"       In every other figure, we've used "4-Pair" in the title instead of "Alternative A and
11801:2002"       Proposed Response       Response Status       O         Cl 33       SC 33.2       P 25       L 4       # 201         Dwelley, David       Linear Technology       Divelley, David       Linear Technology         Comment Type       T       Comment Status       X         Note 3: "1-Event Classification of Type 3 is different from Type 1. Please refer to Table 33–10 items 11, 12 and Section 33.2.6.1 for details."       Marginal grammar, and Section 33.2.6.1, while covering 1-event classification, doesn't make any mention of the differences between Types 1 and 3         SuggestedRemedy       Change Note 3 to: "1-Event Classification differs between Types. Please refer to Table 33–10 items 11 and 12 for details."	location overview" Title of figure 33-5a is inconsistent with other titles, (33-5b, 33-7a, and 33-7b), shoudl reference 4 pair operation. SuggestedRemedy Change title of figure 33-5a is to be consistent with other titles, (33-5b, 33-7a, and 33-7b "Figure 33–5a—10BASE-T/100BASE-TX 4-Pair Endpoint PSE location overview" Proposed Response Response Status O Cl 33 SC 33.2.2 P 28 L 17 # 172 Walker, Dylan Cisco Comment Type ER Comment Status X "Figure 33–5a—10BASE-T/100BASE-TX Alternative A and Alternative B Endpoint PSE location overview" In every other figure, we've used "4-Pair" in the title instead of "Alternative A and Alternative B."
11801:2002"       Proposed Response       Response Status       O         Cl 33       SC 33.2       P 25       L 4       # 201         Dwelley, David       Linear Technology       Divelley, David       Linear Technology         Comment Type       T       Comment Status       X         Note 3: "1-Event Classification of Type 3 is different from Type 1. Please refer to Table 33–10 items 11, 12 and Section 33.2.6.1 for details."       Marginal grammar, and Section 33.2.6.1, while covering 1-event classification, doesn't make any mention of the differences between Types 1 and 3         SuggestedRemedy       Change Note 3 to: "1-Event Classification differs between Types. Please refer to Table 33–10 items 11 and 12 for details."        or add explanatory text to Section 33.2.6.1.	Iocation overview"       Title of figure 33-5a is inconsistent with other titles, (33-5b, 33-7a, and 33-7b), shoull reference 4 pair operation.         SuggestedRemedy       Change title of figure 33-5a is to be consistent with other titles, (33-5b, 33-7a, and 33-7b, "Figure 33–5a—10BASE-T/100BASE-TX 4-Pair Endpoint PSE location overview"         Proposed Response       Response Status       O         Cl 33       SC 33.2.2       P 28       L 17       # 172         Walker, Dylan       Cisco         Comment Type       ER       Comment Status       X         "Figure 33–5a—10BASE-T/100BASE-TX Alternative A and Alternative B Endpoint PSE location overview"       In every other figure, we've used "4-Pair" in the title instead of "Alternative A and Alternative B."         SuggestedRemedy       SuggestedRemedy       SuggestedRemedy

TYPE: TR/technical required ER/editorial required GR/gene	ral required T/technical E/editorial G/general	C/ <b>33</b>	Page 8 of 60
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed Z/withdrawn	SC 33.2.2	7/7/2015 11:33:39 AM
SORT ORDER: Clause, Subclause, page, line			

Yseboodt, Lennart	P <b>28</b> Philips	L <b>28</b>	# 56	<i>Cl</i> <b>33</b> SC <b>33.2.3</b> Bullock, Chris	P: Cisc	<b>32</b> <i>L</i> <b>5</b> o Systems	# 120
Comment Type ER Comment #28 Draft 1.0	Comment Status X			Comment Type ER	Comment Status		id four-wire connections.
SuggestedRemedy				The words "the of" sh	·		
Implement #28/D1.0. Proposed Response	Response Status O			<i>SuggestedRemedy</i> Replace: A PSE device may p	ovide power via one o	or both the of two vali	id four-wire connections.
C/ 33 SC 33.2.3 Balasubramanian, Koussaly	Р <b>32</b> ya self	L 10	# [162	With: A PSE device may p	ovide power via one o	or both of the two vali	id four-wire connections.
Comment Type <b>T</b> Column 4 title of Table	Comment Status X 33-2 is not in sync with Table	e 33-2a		Proposed Response	Response Status	0	
SuggestedRemedy Change title of 4th colu	mn in Table 33-2 to Alternativ	ve B(S) to be in :	sync with Table 33-2a	Cl 33 SC 33.2.3 Zimmerman, George	P : CME	<b>33</b> <i>L</i> <b>26</b> E Consulting, Inc.	# 251
Proposed Response	Response Status O			Comment Type TR	Comment Status		
							tive B, PSEs shall not egment simultaneously."
C/ 33 SC 33.2.3	P 32	L <b>12</b>	# 83	(strikeout)			
Yseboodt, Lennart	Philips			strike out. Additionall			to rewrite rather than just and inaccurate. The
Comment Type TR	Comment Status X			alternatives are the p	inouts, the link section	n, has no pinout.	
	ow, "Alternative B" is wrong.			SuggestedRemedy Reinstate as:			
SuggestedRemedy Replace by "Alternative	B(S)"			"While a PSE may be	e capable of both Alte	rnative A and Alterna	tive B, Type 1 and Type 2
	B(8)			PSEs shall not opera Type 4 PSEs may op			ultaneously. Type 3 and
	Response Status				erate enhandligedely	en beur, atemativee.	
Proposed Response	Response Status O			Proposed Response	Response Status	0	
Proposed Response	Response Status <b>0</b> P <b>32</b> Cisco	L 12	# 173	Proposed Response	Response Status	0	
Proposed Response CI 33 SC 33.2.3 Walker, Dylan Comment Type ER	P 32			Proposed Response	Response Status	0	
Proposed Response Cl 33 SC 33.2.3 Walker, Dylan Comment Type ER Table 33-2 "Alternative SuggestedRemedy	P 32 Cisco Comment Status X	match Table 33-2		Proposed Response	Response Status	0	

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

CI 33 SC 33.2.3

C/ 33 SC 33.2.4 P 33 L 31 # 252	C/ 33 SC 33.2.4.1 P 33 L 43 # 203
Zimmerman, George CME Consulting, Inc.	Dwelley, David Linear Technology
Comment Type TR Comment Status X	Comment Type E Comment Status X
"The PSE shall provide the behavior of the state diagrams shown in Figure 33–9, Figure 33–9 continued, and Figure 33–10."	"See section 33.2.7.12 for complete details."
This statement now applies only to Type 1 and Type 2 PSEs.	Details in 33.2.7.12 are not anywhere near complete on this subject
While we know that it doesn't apply to Type 3 & 4, we also don't know what behavior relates to Types 3 & 4 yet, but a statement is needed.	SuggestedRemedy Remove "complete"
SuggestedRemedy	Proposed Response Response Status O
Change to : "Type 1 and Type 2 PSEs shall provide the behavior" Insert: "Type 3 and Type 4 PSEs shall provide the behavior of the state diagrams shown in Figures (TBD)."	CI 33     SC 33.2.4.1     P 33     L 45     # 253       Zimmerman, George     CME Consulting, Inc.
Proposed Response Response Status O	
	Comment Type <b>T</b> Comment Status <b>X</b> "It is possible that two separate PSEs, one that implements Alternative A and one that
C/ 33         SC 33.2.4.1         P 33         L 41         # 202           Dwelley, David         Linear Technology	implements Alternative B (see 33.2.1), may be attached to the same link segment."
Comment Type T Comment Status X	This applies only to two-pair PSEs.
"If power is to be applied, the PSE turns on power after a valid detection in less than Tpon	SuggestedRemedy
as specified in Table 33–11. If the PSE cannot supply power within Tpon, it initiates and successfully completes a new detection cycle before applying power."	insert "two-pair" so it says "It is possible that two separate two-pair PSEs".
successionly completes a new detection cycle before applying power.	Proposed Response Response Status O
Missing "shalls" - both of these behaviors are mandatory.	
SuggestedRemedy	C/ 33 SC 33.2.4.1 P 34 L 1 # 204
Change sentences to: "If power is to be applied, the PSE shall turn on power after a valid detection in less than Tpon as specified in Table 33–11. If the PSE cannot supply power	Dwelley, David Linear Technology
within Tpon, it shall initiate and successfully complete a new detection cycle before	Comment Type E Comment Status X
applying power."	"If a PSE performing detection using Alternative B detects an open circuit (see 33.2.5.5) on
Proposed Response Response Status O	the link section, then that PSE may optionally omit the detection backoff."
	33.2.5.5 repeats this text almost identically and refers to table 33-4, which is a broken link.
	SuggestedRemedy
	SuggestedRemedy
	SuggestedRemedy Change reference to: "(see Table 33-6)". Delete section 33.2.5.5 entirely.

Cl	33	
SC	33.2.4.1	

Page 10 of 60 7/7/2015 11:33:39 AM C/ 33 SC 33.2.4.1 P 34 L1 # 205 C/ 33 SC 33.2.4.4 P 33 L 43 # 255 CME Consulting, Inc. Dwelley, David Linear Technology Zimmerman, George Comment Status X Comment Type T Comment Type т Comment Status X If a PSE performing detection using Alternative B detects an open circuit (see 33.2.5.5) on "legacy powerup: the link section, then ... " This variable is provided for PSEs that monitor the PI per pair set voltage output and use that information to indicate the completion of PD inrush current during POWER\_UP operation. Using only the PI pair set voltage information may be insufficient to determine Link section is old AT language - the new BT term "pair set" is better the true end of PD inrush current: use of a fixed TInrush-2P period is recommended. A SuagestedRemedv variable that is set in an implementation-dependent manner. Change "link section" to "pair set" Values:TRUE:The PSE supports legacy power up; this value is not recommended. FALSE: The PSE does not support legacy power up. It is highly recommended that new Proposed Response Response Status O equipment use this value." Doesn't this only apply to 2 pair PSEs? At a minimum, there should be no legacy-power-C/ 33 SC 33.2.4.3 P 34 L 29 # 176 up 4pair PSEs. Walker, Dylan Cisco SuggestedRemedy Comment Type TR Comment Status X insert "two pair" so it reads. "This variable is provided for two-pair PSEs" To allow for PSEs that perform connection check before, during, between, or after Add to TRUE: (after 'not recommended'), "and is not allowed for 4-pair PSE operation." detection, a new constant is needed to define the disparate pathways these PSEs take through the state diagram and their associated timing requirements. Proposed Response Response Status 0 SuggestedRemedv Add constant "PSE\_CC\_DET\_SEQ" as follows: SC 33.2.4.4 C/ 33 P 34 L 40 # 174 PSE CC DET SEQ Walker, Dylan Cisco A constant indicating the sequence in which the PSE performs connection check and Comment Type TR Comment Status X detection. Values: 1: Connection check and detection performed simultaneously Values for variable "PD signature" do not match the values shown within the 2: Connection check performed prior to detection do connection check function (see page 41, line 14) where the variable is assigned. 3: Connection check performed between detections SuggestedRemedy 4: Connection check performed after detection Change the value "Invalid" to "Open circuit" as follows: Proposed Response Response Status 0 "Open Circuit: Open circuit detected on both pairsets." Also, modify the value "Single" to be the default case and applicable to PDs that operate over a single pairset: "Single: Either connection check has not been performed or a single-signature PD configuration is connected through one or both of the two pairsets at the PI." \*Corresponding comment entered against the variable values within the function flagged with DW1\* Proposed Response Response Status 0

IEEE P802.3bt D1.1 4-Pair Power over Ethernet 4th Task Force review comments

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn SORT ORDER: Clause, Subclause, page, line Cl 33 SC 33.2.4.4 Page 11 of 60 7/7/2015 11:33:39 AM

C/33         SC 33.2.4.4         P 35         L 38         # 71           (seboodt, Lennart         Philips	C/ 33         SC 33.2.4.4         P 35         L 52         # 111           Johnson, Peter         Sifos Technologies
Comment Type T Comment Status X	Comment Type T Comment Status X
IPort-2P is also per pair set original text: "IInrush-2P Output current per pair set during POWER_UP (see Table 33-11 and Figure 33-13). IPort-2P Output current (see 33.2.7.6)." SuggestedRemedy	legacy_powerup state variable definition. This refers to a commonly implemented inrush behavior associated with 802.3af and many 802.3at PSE's whereby inrush is deemed completed as soon as port voltage is in a nominal range. This behavior is not recommended in 802.3at because Type-2 PSE's are allowed to set Type-2 parameters for lcut and llim upon the completion of inrush meaning all PD's that delay or stagger inrush loads might not experience inrush current limiting at al
"IPort-2P Output current per pair set (see 33.2.7.6)."	resulting in effective inrush currents at 684mA or higher. Type-3 and Type-4 may allow even higher inrush currents to Type-1 / Type-2 PD's if they implement the "traditional" legacy_powerup. This should be avoided.
Proposed Response Response Status O	SuggestedRemedy legacy_powerup
2/33     SC 33.2.4.4     P 35     L 45     # 138       arshan, Yair     Microsemi	FALSE: The PSE does not support legacy power up. Type-3 and Type-4 PSEs shall use this value. It is highly recommended Type-1 and Type-2 PSEs use this value.
Comment Type TR Comment Status X	Proposed Response Response Status <b>O</b>
There is missing word "only" in the text: The text "This variable is provided for PSEs that (only)monitor the per pair set voltage output and use that information".	C/ 33     SC 33.2.4.4     P 35     L 8     # 254       Zimmerman, George     CME Consulting, Inc.
The above text should match lines 46-47 that do use the word "only" which is the correct intent:	Comment Type ER Comment Status X
lines 46-47 says: Using only the PI pair set voltage information may be insufficient"	"Editor's Note: State machine to include early exit at any point prior to power up. Language above suggests 4PID prior to classification, commentators are encouraged to provide language consistent with 4PID by power-up."
SuggestedRemedy	language consistent with 4FTD by power-up.
Repalce The text " for PSEs that monitor the per pair set voltage output and use that information"	Language above has been modified to not mention classification, so the issue is fixed.
with:	SuggestedRemedy
" for PSEs that monitor only the per pair set voltage output and use that information"	Delete Editor's note.
Proposed Response Response Status O	Proposed Response Response Status O

7 <b>33</b> SC arshan, Yair	C 33.2.4.4	P <b>36</b> Microsemi	L <b>49</b>	# 133	C/ <b>33</b> Zimmerma	SC <b>33.2.4.4</b> an, George	(	P <b>37</b> CME Consul	L <b>4</b> ting, Inc.	# 256
omment Type	TR	Comment Status X			Comment		Comment Si		,	
set B. The current pair set A it What about As a result,	text says " is sufficient the status o the variable	need to know if we have ove .over at least one pair set" and it is not. if pair set B? ovld_detected text need to	' means that if we		À con indica Value 2: PD 3: PD		D as advertised		state diagram (F a Link Layer clas:	igure 33-27) that sification.
lggestedReme					4. T D	is a type 41 D				
	ndicating if th	ne PSE output current over 33.2.7.6) for"	at least on epair	set has been in an		l of this variable wer_type.	will be needed fo	or mutual ide	entification, not re	quiring it to be "dll"
To:					Suggestee	Remedy				
A variable ir an overload	l condition (s	ne PSE output current over ee 33.2.7.6) for"	1st pair-set or 2r	ld pair set has been in	"pd_p "pd_p	ower_type", or, if ower_type	f mutual ID is ad	opted, add tl	on will require a s he variable as fol on that indicates	lows:
oposed Response Response Status O			Value 2: PD 3: PD	s:1: PD is a Type is a Type 2 PD is a Type 3 PD is a Type 4 PD"						
					Proposed Response Response Status O					
					C/ 33	SC 33.2.4.4		P 39	L <b>5</b>	# 72
					Yseboodt,	Lennart	I	Philips		
					Yseboodt, <i>Comment</i>	Туре Т	Comment St	tatus X		
					Yseboodt, <i>Comment</i> A Typ must i A Typ Curre	<i>Type</i> <b>T</b> e 4 PSE is distin mplement 4P). e 4 PSE that is p	<i>Comment</i> St act from a Type 3 powering below o equires a Type 4	tatus X 3 PSE in way class 7 shoul	d still be a Type	rer (Vpse min, polarity 4 PSE. ents = 5, possibly
					Yseboodt, <i>Comment</i> A Typ must i A Typ Curre restric	<i>Type</i> <b>T</b> e 4 PSE is distin mplement 4P). e 4 PSE that is p ntly Table 33-3 re	Comment Sa act from a Type 3 bowering below o equires a Type 4 and 8.	tatus X 3 PSE in way class 7 shoul I PSE to hav	d still be a Type e class_num_eve	4 PSE.
					Yseboodt, Comment A Typ must A Typ Curre restric (This	<i>Type</i> <b>T</b> e 4 PSE is distin mplement 4P). e 4 PSE that is p ntly Table 33-3 re ting it to Class 7	Comment Si act from a Type 3 powering below o equires a Type 4 ' and 8. rsion of the com	tatus X 3 PSE in way class 7 shoul I PSE to hav ment agains	d still be a Type e class_num_eve	4 PSE.
					Yseboodt, Comment A Typ must A Typ Curre restric (This	<i>Type</i> <b>T</b> e 4 PSE is distin mplement 4P). e 4 PSE that is p ntly Table 33-3 re ting it to Class 7 s an updated ven ntation on this to	Comment Si act from a Type 3 powering below o equires a Type 4 ' and 8. rsion of the com	tatus X 3 PSE in way class 7 shoul I PSE to hav ment agains	d still be a Type e class_num_eve	4 PSE.
					Yseboodt, Comment A Typ must i A Typ Curre restric (This Prese Suggested	<i>Type</i> <b>T</b> e 4 PSE is distin mplement 4P). e 4 PSE that is p ntly Table 33-3 re ting it to Class 7 s an updated ven ntation on this to	Comment Sa act from a Type 3 bowering below of equires a Type 4 and 8. rsion of the com opic "Type 4 Class	tatus X 3 PSE in way class 7 shoul 4 PSE to hav ment agains ssrange"	d still be a Type e class_num_eve	4 PSE.

C/ 33 SC 33.2.4.4	P 39	L <b>5</b>	# 15	CI 33 SC 33.	2.4.6	P 41	L 17	# 175
Yseboodt, Lennart	Philips			Walker, Dylan		Cisco		
Comment Type E	Comment Status X			Comment Type T	R Comm	nent Status X		
	ecome very long and narrow.					re" within the do_co 2.4.4 (see page 34		function do not match
SuggestedRemedy		_		SuggestedRemedy			, ,	
Table can be compact yseboodt_Table_33_3	ed now that DLL permutations	are out. See		Delete the "Inval	id" value.			
Proposed Response	Response Status O			Change the value	e "Open_circuit	" as follows:		
C/ 33 SC 33.2.4.4	P 39	L 5	# 57	"Open_Circuit: C	pen circuit dete	ected on both pairse	ets."	
Yseboodt, Lennart	Philips	20	" 51	Modify the value single pairset:	"Single" to be t	he default case and	d applicable to PE	Os that operate over a
Comment Type ER Comment #227 D1.0 p	Comment Status X bartially implemented.			"Single: Either co		k has not been perfe	0	0
SuggestedRemedy				configuration is c	connected throu	igh one or both of th	ne two pairsets at	the PI."
Remove column pse_ See yseboodt_Table_3	dll_capable from Table 33-3. 33_3.pdf			*Corresponding Proposed Response		ed against the varia <i>nse Status</i> <b>O</b>	ble values flagge	d with DW1*
Proposed Response	Response Status <b>O</b>				Nespo			
C/ 33 SC 33.2.4.4	P 39	L 6	# 105	CI 33 SC 33.	2.4.6	P <b>41</b>	L <b>22</b>	# 124
Jones, Chad	Cisco	20	# 105	Bullock, Chris		Cisco Syster	ns	
				21		nent Status X		
Comment Type T HOLD OVER for Lenn A Type 4 PSE is distin	Comment Status X art Yseboodt: lot from a Type 3 PSE in ways	other than pow	er (Vpse min, polarity,		n state. As suc			will keep you from of the pair sets" should
must implement 4P).				SuggestedRemedy				
	vent Type 4 PSEs from provid equires a Type 4 PSE to have			,	rcuit on one of	the pair sets" to "op	en circuit on bot	h of the pair sets"
restricting it to Class 7			5m3 – J, pussibly	Proposed Response		nse Status <b>O</b>	_	
SuggestedRemedy					Nespu			
55 ,	s 1, 2 and 4 also for Type 4.							
	· // ·							

Response Status 0

Proposed Response

C/ 33 SC 33.2.4.6 Page 14 of 60 7/7/2015 11:33:39 AM

C/ 33 SC 33.2.4	6 <i>P</i> 41	L 23	# 7	C/ 33	SC 33.2.4.6	P <b>42</b>	L 37	# 16
Abramson, David	Texas Instrur	ments		Yseboodt,		Philips		
Comment Type TR	Comment Status X			Comment	Type E	Comment Status X		
This comment appli do_connection_che	es to the "invalid" entry for the v k function.	variable "PD_Sig	nature" in the	functio	on returns the fol	sponding to either a Type 1 lowing variable:" vell as the Harvard comma.	Туре 2, Туре 3 о	r Type 4 PSE. This
	nd its definition are misleading. The pairset and something plugg			Suggestee	dRemedy			
return "Dual".	le pairset and something plugg				et to values corre on returns the fol	sponding to either a Type 1, lowing variable:"	Type 2, Type 3,	or Type 4 PSE. This
	nnection check does not do det (or open) should be made here			Proposed	Response	Response Status O		
SuggestedRemedy								
	tion for PD_Signature varaible. ure to Signature_Type.			C/ <b>33</b> Zimmerma	SC <b>33.2.4.6</b> an, George	P <b>43</b> CME Consu	<i>L</i> <b>4</b> ting, Inc.	# 257
returned by a PSE performing detectio	Response Status       O         6       P 42         Seen Simply         Comment Status       X         : The PSE has detected an op         erforming detection using Alter         over each pair set, if either pa         that want to power one or both	oen circuit. This native B, or by T ir set yields an c	ype 3 and 4 PSEs	pay cl Text d (it was <i>Suggested</i> Delete	r's Note: "Classif ose attention to a loesn't refer to at sn't in 1.0 either)	Comment Status X ication not complete" in abo above paragraph during revie pove text, the term does not Response Status O	ews."	
detection for PSE T value is optionally re will used this inform	t: The PSE has detected an op rpes that will use this informatic turned by PSE Types performin ation to power only on one pair ets used for detection for Type	on to power only ng detection usi set. The PSE h	on one pair set. This ng Alternative B, that as detected an open					

C/ 33 SC 33.2.4.6	P <b>43</b>	L 8	# 258	C/ 33 S	SC 33.2.4.6	P <b>43</b>	L <b>8</b>	# 94
'immerman, George	CME Consult	ting, Inc.		Yseboodt, Len	nart	Philips		
Comment Type ER	Comment Status X			Comment Type	e TR	Comment Status X		
(Type_sub_PSE), the PD Type(Type_sub_P	a PD of lower Type (Type_su PSE shall meet the PI electri D), except for ICon-2P, ILIM- shall meet the requirements ub_PSE."	cal requirement 2P, TLIM-2P, ar	s of a Type 1 PSE the nd PType (see Table 33-	regardless the attache Corner exa	of ed PD. ample: a Typ	graph, a PSE is allowed to us be 4 PSE may allow currents n under fault conditions obvio	up to 1.9A to a (	
_sub_ should indicate requirements of any P	subscripts. also wording of " SE Type" is odd.	for which the P	SE shall meet the			incapable of supporting this	current (Type 1 d	channel would be valid
SuggestedRemedy				in this exa - Can be o	mpie) f indefinite d	uration		
implement subscripts i	ndicated by _sub_			- Would al	low the PD t	o self-destruct with a *substa en allow the PSE to mix and		
	o that it makes sense, "for whe or a lesser type such that <sup>-</sup>			from Type				
	••	Type_sub_PD<		SuggestedRen	nedy			
Proposed Response	Response Status <b>O</b>			should pro	tect	porting much higher power, v	vhile not previous	sly a feature, PSEs no
C/ 33 SC 33.2.4.6	P 43	L <b>8</b>	# 59		el and downs	stream PD. ment (lines 8 to 13).		
seboodt, Lennart	Philips			Delete the	whole state	ment (imes 6 to 15).		
Comment Type ER The paragraph on line The intention was for 'y SuggestedRemedy Implement subscripts.	Comment Status X 8 through 12 uses the constr / to become subscript.	ruct x_sub_y as	literal text.	"When a T requireme Type 1 PS Con , I LIN	ype 2 PSE p nts of a SE, but may 1,	k to the original: bowers a Type 1 PD, the PS choose to meet the electrica ee Table 33-11)."		
Proposed Response	Response Status 0			(Type_PSI shall mee T_LIM-2P see (Table Type_PD The PSE If, based o Type cann	E), the PSE t the PI elec and PType e 33-11), for <= PSE Typ shall use I_( on the outco ot be determ	pe 4 PSE powers a PD of lo trical requirements of the PD which the PSE shall meet th e <= Type_PSE. Con-2P, T_LIM-2P and PTyp me of physical layer classific nined, lowest Type the PD could be	e requirements e parameters fro ation and conne	), except for I_Con-2P of any PSE Type, om the same Type.
				Proposed Res		Response Status <b>O</b>		

IEEE P802.3bt D1.1 4-Pair Power over Ethernet 4th Task Force review comments
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C/ 33 SC 33.2.4.6 Balasubramanian, Koussa	P <b>43</b> lya self	L <b>8</b>	# 163	C/ 33         SC 33.2.4.7         P 46         L 5         # 39           Yseboodt, Lennart         Philips
Comment Type TR	Comment Status X		definition	Comment Type E Comment Status X
SuggestedRemedy	ub_PSE and Type_sub_PD a Fype_sub_PSE and Type_sub		definition.	Finding related sum diagrams is not easy in state diagram Fig 33-9a. SuggestedRemedy Add figure number in the empty box of the sub state diagrams
roposed Response	Response Status O			Proposed Response Response Status O
/ 33 SC 33.2.4.7 immerman, George	P <b>45</b> CME Consulti	L <b>40</b> ing, Inc.	# 259	C/ 33         SC 33.2.4.7         P 47         L 1         # 60           Yseboodt, Lennart         Philips
<i>comment Type</i> <b>ER</b> "Figure 33–9—PSE st	Comment Status X ate diagram (continued)"			Comment Type ER Comment Status X In subdiagrams of the statemachine, we have T3 coming in without a source visible.
uggestedRemedy	of Figure 33-9- Type 1 and T Fig 33-9: "Figure 33–9— Type		0	SuggestedRemedy Add "pse_reset + error_condition * (mr_pse_enable = enable)" to T3 arrow. Proposed Response Response Status <b>O</b>
roposed Response	Response Status O			CI 33         SC 33.2.4.7         P 51         L 2         # 165           Balasubramanian, Koussalya         self
/ 33 SC 33.2.4.7 seboodt, Lennart omment Type E	P <b>46</b> Philips Comment Status X	L <b>26</b>	# 40	Comment Type <b>TR</b> Comment Status <b>X</b> Figure 33-9g starts with off page connectors A, A1 etc., - which are not defineed. We moved this figure over and called it Type 3 and 4 Class state diagram.
51	i state, not a sub diagram. It s	should a subdiag	ram (dashed box)	SuggestedRemedy Connections A, A1 need to be defined for Figure 33-9g.
uggestedRemedy Rename block and ref	0			Proposed Response Response Status O
Proposed Response	Response Status O			

	P <b>52</b>	L 19	# 142	CI 33	SC 33.2.5		P <b>52</b>	L <b>45</b>	# 8
Schindler, Fred	Seen Simply			Abramson	, David		Texas Instru	ments	
comment Type ER	Comment Status X			Comment	Type <b>TR</b>	Comment	Status X		
decided to keep the leg	ences figure 33-9, will not be r gacy Type 1 and Type 2 PSE ower and maintain_4pair_pow b be developed.	state diagram.	Variables		y operational s	state, the PSE sh ly detected a vali			a pair set until the
SuggestedRemedy Replace the Editors no	te starting on line 29 and end	dina on line 40, w	vith			rset off and back thing we want to		check disconnec	t. This behavior has
	-	-		Suggested		thing we want to	allow.		
	te diagram shown in Figure 3 so covered in section 33.2.5.6		incorporate the 4PID	••	-	c. I would like to	prepare a pres	sentation for Sept	ember.
Proposed Response	Response Status <b>O</b>				ow, add:		p. op a. o a p. o		
C/ 33 SC 33.2.4.7	P <b>52</b>	L <b>30</b>	# 260					entence needs to inected to a SS cl	be addressed as it lass 0-4 PD."
Zimmerman, George	CME Consulti	ing, Inc.		Proposed	Response	Response S	Status <b>O</b>		
Comment Type ER	Comment Status X								
After connection check set variable pd_ (PD_signature = Dual) * (!deny_dual_sig 2) Set maintain_4pair_ 3) Add an additional ex the POWER_ DENIED state. Change "power_not_available*! ovid_detected*tmpdo_ maintain_4pair_power Editor's note has been	power to initial value of pd_4p kit condition - !maintain_4pair_ e exit D from POWER_ON sta	*[(PD_signature pair_candidate a _power from the ate to t_lim+!maintain_ removed from at needs updating	= Single) + t POWER_UP state. POWER_ON state to _4pair_power".If least one pair set."	LLDP, redete Suggestec After: "In an	Type TR E and a single they should b coting as long a <i>Remedy</i> y operational s has successful	Comment e-signature PD a le allowed to tran as the other pairs	gree to transit sition back to set has not bee all not apply o	en powered down	ain via LLDP - without
SuggestedRemedy Replace lines 29 to 33 "Editor's Note: State di 1) Process to do conne	agram shown in figure 33-9 slection check following DETEC	CT_EVAL and pr	ior to any classification.	power withou the int	over LLDP, 4 it another dete erim."	-pair power can s	subsequently b	be resumed via ne	pair power to 2-pair egotiation over LLDP om the other pairset in
SuggestedRemedy Replace lines 29 to 33 "Editor's Note: State di 1) Process to do conne	agram shown in figure 33-9 sl ection check following DETEC s set variable pd_4pair_candid	CT_EVAL and pr	ior to any classification.	power withou	over LLDP, 4 it another dete erim."	-pair power can s	ubsequently b power has not	be resumed via ne	gotiation over LLDP

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn SORT ORDER: Clause, Subclause, page, line CI 33 SC 33.2.5 Page 18 of 60 7/7/2015 11:33:39 AM

C/ 33 SC 33.2.5	P <b>52</b>	L <b>50</b>	# 206	CI 33	SC	33.2.5.0a	P 53	L 16	# 208
welley, David	Linear Techno	ology		Dwelley, D	David		Linear Te	chnology	
Comment Type <b>T</b>	Comment Status X			Comment	Туре	т	Comment Status X		
"The PSE PI is connec	cted to a PD through a link se	gment."		"The c	connecti	ion check s	shall be completed before	e classification."	
Should be "link sectior	ר"			This in	nplies tł	hat connec	tion check should finish	before classificatio	n finishes - I don't think
uggestedRemedy				that is	what w	e want			
Change "segment" to	"section". Also, this paragraph	n should probabl	y be swapped with the	Suggested	dRemed	ły			
one above it.						ence to: "Tl any pairse	ne connection check sha	all be completed be	fore classification is
Note: this is an old err	or from AT and may need to b	e submitted as	a maintenance request	penon	med on	any pairse	et.		
Proposed Response	Response Status <b>O</b>			the gro before	oup war the PS	nts. An alte	nge from the existing tex mate fix would be: "The OWER_UP." This is mo	connection check	shall be completed
33 SC 33.2.5.0a	a P 53	L 12	# 177	Proposed		0	Response Status <b>O</b>		
Valker, Dylan	Cisco			TTOPOSEU	пезроп	130			
comment Type ER	Comment Status X			. <u> </u>					
	e 52, line 50), the following is	stated: "In the fo	ollowing subclauses,	CI 33	SC	33.2.5.0a	P 53	L <b>34</b>	# 178
the link is not called or	ut to preserve clarity."			Walker, Dy	ylan		Cisco		
uggestedRemedy				Comment	Туре	TR	Comment Status X		
Replace:							dditional Information for gnature PD."	Item 2, it's stated th	nat "Applies only when
	that result in a voltage at the					0			
	4 shall be used to determine we to the two pair sets in the link s		-signature or dual-				ve allow connection che timing parameters.	ck to occur betweer	n the 2 detections and
With:				Suggested	dRemed	ły			
				Preser	ntation f	forthcomin	g to cover this and othe	aspects of connect	tion check.
	that result in a voltage at the 4 shall be used to determine v to the two pair sets."			Proposed	Respon	ise	Response Status <b>O</b>		
Proposed Response	Response Status <b>O</b>								
. ,									

C/ 33 SC 33.2.5.0a

CI 33 SC 33	3.2.5.0a	P <b>53</b>	L <b>41</b>	# 76	C/ 33 SC 33.2.5.0a P 53 L 41 # 209
rseboodt, Lennart		Philips			Dwelley, David Linear Technology
Comment Type	T Com	ment Status X			Comment Type TR Comment Status X
"In addition, on specified in Tat	ole 33-4 shall be other a single-sig	ult in a voltage at the used to		elow V valid (max) as to the two pair sets in	"If the voltage at the PI, on either pair set, rises above Vvalid max, defined in Table 33 the PSE shall reset the PD by bringing the voltage at the PI below Voff max, defined in Table 33–7." This prevents operation over a 2P channel!
					SuggestedRemedy
the PSE shall re the PD by brin	eset nging the voltage	e at the PI below V of	ff max, defined ir		Change sentence to: "If the voltage on either pair set rises above Vvalid max, (defined Table 33–4) during connection check, the PSE shall reset the PD by bringing the volta the PI below Voff max, (defined in Table 33–7) before performing detection." <i>Proposed Response</i> Response Status <b>O</b>
Since it is not a this.	allowed to use v	oltages > Vvalid(ma)	<), we do not nee	ed to define	
SuggestedRemedy					CI 33 SC 33.2.5.0a P 53 L 7 # 207
Remove:					Dwelley, David Linear Technology
"If the voltage a the PSE shall re		er pair set, rises abo	ve V valid max, o	defined in Table 33-4,	Comment Type T Comment Status X
		at the PI below V of	f max, defined in	Table 33-7."	"Type 3 and Type 4 PSEs that operate over both pair sets shall complete"
Proposed Respons	e Respo	P 53	L 41	# [41]	"operate over" is somewhat ambiguous - does it mean that the PSE is about to operate over both pair sets, or that is contains hardware capable of operating over both pair set A PSE should not need to complete Connection Check if it is not preparing to provide
/seboodt, Lennart	J.2.5.04	Philips	241	<i>m</i> <b>4</b> 1	power.
	E Com	ment Status X			SuggestedRemedy Change "operate over" to "preparing to deliver 4-pair power"
51			we V valid max	defined in Table 33-4,	
the PSE shall re	eset	e at the PI below V of	,	,	Proposed Response Response Status O
<b>T</b> - b l - m - ( - m - m -	e is wrong.				
l able referenc					
SuggestedRemedy Remove: 33-7 => 33-11.					

C/ 33 SC 33.2.5.0a

	5.1 P 55	L 8	# 123	C/ 33 SC 33.2.5.		L <b>52</b>	# 179
sullock, Chris	Cisco Systems			Walker, Dylan	Cisco		
comment Type TR	Comment Status X			Comment Type ER	Comment Status X		
	also apply to connection check sta				pesn't read well. We don't need 0) states it won't be for clarity.	l to mention the li	nk since section 33.2.5
For Item 1 and 2, ch	nange Additional information colum	n to include C	Connection Check.	SuggestedRemedy			
				Replace:			
uggestedRemedy					an offset voltage up to Vos max 3–5, a PSE shall accept as a va		
Change "In Detectic	on state only" to "In Detection state	or Connectio	n Check state"		with both of the following chara		g
roposed Response	Response Status O			With:			
					an offset voltage up to Vos max		
33 SC 33.2.5	6.3 <i>P</i> 55 Cisco	L <b>52</b>	# 3	specified in Table 33 both of the following	3–5), a PSE shall deem a PD d	etection signature	e valid on a pairset with
ones, Chad Comment Type E	Comment Status X			Proposed Response	Response Status 0		
	ints about this text in Manchester, t	rving to make	it better: "In the				
presence of an offse	et voltage up to Vos max and an of	fset current u	p to los max as	C/ 33 SC 33.2.5.	3 <i>P</i> 56	L <b>24</b>	# 261
	3–5, a PSE shall accept as a valid with both of the following characte		signature a pair set	Zimmerman, George	CME Consult		# 201
a) Signature resistar		151105.				ing, ne.	
<ul> <li>b) Parallel signature</li> </ul>	canacitance Crood "			Comment Type ER	Comment Status X		
	e capacitance ogodu.			"In a multiport system	m the implementer should mai	ntain DC isolation	. "
, .	e capacitance Ogudu.			"In a multiport syster "implementor" has b	m, the implementor should mai een globally changed to "imple	ntain DC isolatior menter" in 802.3t	n" ox revision project.
uggestedRemedy note to comment ed	litor: this is NOT an 'easy' bucket c			"implementor" has be	m, the implementor should mai een globally changed to "imple	ntain DC isolatior menter" in 802.3t	n" ox revision project.
uggestedRemedy note to comment ed A pair set within a lir	litor: this is NOT an 'easy' bucket c nk section with the following charac			"implementor" has b SuggestedRemedy	m, the implementor should mai een globally changed to "imple or" to "implementer" throughout	menter" in 802.3t	1" px revision project.
uggestedRemedy note to comment ed A pair set within a lir a) Signature resistan b) Parallel signature c) in the presence o	litor: this is NOT an 'easy' bucket c nk section with the following charac nce Rgood, and e capacitance Cgood of an offset voltage up to Vos max,	cteristics: as specified in		"implementor" has b SuggestedRemedy	een globally changed to "imple	menter" in 802.3t	1" px revision project.
uggestedRemedy note to comment ed A pair set within a lir a) Signature resistar b) Parallel signature c) in the presence o d) in the presence o	ditor: this is NOT an 'easy' bucket c nk section with the following charac nce Rgood, and e capacitance Cgood of an offset voltage up to Vos max, a of an offset current up to los max, a	cteristics: as specified in s specified in		"implementor" has b SuggestedRemedy Change "implemento	een globally changed to "imple or" to "implementer" throughout	menter" in 802.3t	n" ox revision project.
aggestedRemedy note to comment ed A pair set within a lin a) Signature resistan b) Parallel signature c) in the presence o d) in the presence o shall be accepted as	ditor: this is NOT an 'easy' bucket c nk section with the following charac nce Rgood, and e capacitance Cgood of an offset voltage up to Vos max, a of an offset current up to los max, a s a valid PD detection signature by	cteristics: as specified in s specified in		"implementor" has b SuggestedRemedy Change "implemento	een globally changed to "imple or" to "implementer" throughout Response Status <b>O</b>	menter" in 802.3t	n" bx revision project. # 121
uggestedRemedy note to comment ed A pair set within a lir a) Signature resistan b) Parallel signature c) in the presence o d) in the presence o shall be accepted as	ditor: this is NOT an 'easy' bucket c nk section with the following charac nce Rgood, and e capacitance Cgood of an offset voltage up to Vos max, a of an offset current up to los max, a	cteristics: as specified in s specified in		"implementor" has be SuggestedRemedy Change "implemento Proposed Response	een globally changed to "imple or" to "implementer" throughout Response Status <b>O</b>	menter" in 802.3t : document. <i>L</i> <b>51</b>	ox revision project.
AuggestedRemedy note to comment ed A pair set within a lir a) Signature resistant b) Parallel signature c) in the presence of d) in the presence of shall be accepted as	ditor: this is NOT an 'easy' bucket c nk section with the following charac nce Rgood, and e capacitance Cgood of an offset voltage up to Vos max, a of an offset current up to los max, a s a valid PD detection signature by	cteristics: as specified in s specified in		"implementor" has be SuggestedRemedy Change "implemento Proposed Response Cl 33 SC 33.2.5. Bullock, Chris Comment Type ER	een globally changed to "imple or" to "implementer" throughout <i>Response Status</i> <b>O</b> 5 <i>P</i> 56 Cisco Systen <i>Comment Status</i> <b>X</b>	menter" in 802.3t : document. 	trevision project. # [121
uggestedRemedy note to comment ed A pair set within a lir a) Signature resistan b) Parallel signature c) in the presence o d) in the presence o shall be accepted as	ditor: this is NOT an 'easy' bucket c nk section with the following charac nce Rgood, and e capacitance Cgood of an offset voltage up to Vos max, a of an offset current up to los max, a s a valid PD detection signature by	cteristics: as specified in s specified in		"implementor" has be SuggestedRemedy Change "implemento Proposed Response Cl 33 SC 33.2.5. Bullock, Chris Comment Type ER Reference to table is	een globally changed to "imple or" to "implementer" throughout <i>Response Status</i> <b>O</b> 5 <i>P</i> 56 Cisco Systen	menter" in 802.3t : document. 	trevision project. # [121
huggestedRemedy note to comment ed A pair set within a lir a) Signature resistan b) Parallel signature c) in the presence o d) in the presence o	ditor: this is NOT an 'easy' bucket c nk section with the following charac nce Rgood, and e capacitance Cgood of an offset voltage up to Vos max, a of an offset current up to los max, a s a valid PD detection signature by	cteristics: as specified in s specified in		"implementor" has be SuggestedRemedy Change "implemento Proposed Response Cl 33 SC 33.2.5. Bullock, Chris Comment Type ER Reference to table is SuggestedRemedy	een globally changed to "imple or" to "implementer" throughout <i>Response Status</i> <b>O</b> 5 <i>P</i> 56 Cisco Systen <i>Comment Status</i> <b>X</b>	menter" in 802.3t : document. 	# 121
uggestedRemedy note to comment ed A pair set within a lir a) Signature resistan b) Parallel signature c) in the presence o d) in the presence o shall be accepted as	ditor: this is NOT an 'easy' bucket c nk section with the following charac nce Rgood, and e capacitance Cgood of an offset voltage up to Vos max, a of an offset current up to los max, a s a valid PD detection signature by	cteristics: as specified in s specified in		"implementor" has be SuggestedRemedy Change "implemento Proposed Response Cl 33 SC 33.2.5. Bullock, Chris Comment Type ER Reference to table is SuggestedRemedy	een globally changed to "imple or" to "implementer" throughout <i>Response Status</i> <b>O</b> <b>5</b> <i>P</i> <b>56</b> Cisco Systen <i>Comment Status</i> <b>X</b> s wrong. Ropen is defined in Ta	menter" in 802.3t document. <i>L</i> <b>51</b> ns able 33-6, not Tal	# 121
uggestedRemedy note to comment ed A pair set within a lir a) Signature resistan b) Parallel signature c) in the presence o d) in the presence o shall be accepted as	ditor: this is NOT an 'easy' bucket c nk section with the following charac nce Rgood, and e capacitance Cgood of an offset voltage up to Vos max, a of an offset current up to los max, a s a valid PD detection signature by	cteristics: as specified in s specified in		"implementor" has be SuggestedRemedy Change "implemento Proposed Response Cl 33 SC 33.2.5. Bullock, Chris Comment Type ER Reference to table is SuggestedRemedy Change "Ropen as c	een globally changed to "imple or" to "implementer" throughout <i>Response Status</i> <b>O</b> <b>5</b> <i>P</i> <b>56</b> Cisco Systen <i>Comment Status</i> <b>X</b> s wrong. Ropen is defined in Table 33-4," to "Rope	menter" in 802.3t document. <i>L</i> <b>51</b> ns able 33-6, not Tal	# 121
aggestedRemedy note to comment ed A pair set within a lin a) Signature resistan b) Parallel signature c) in the presence o d) in the presence o shall be accepted as	ditor: this is NOT an 'easy' bucket c nk section with the following charac nce Rgood, and e capacitance Cgood of an offset voltage up to Vos max, a of an offset current up to los max, a s a valid PD detection signature by	cteristics: as specified in s specified in		"implementor" has be SuggestedRemedy Change "implemento Proposed Response Cl 33 SC 33.2.5. Bullock, Chris Comment Type ER Reference to table is SuggestedRemedy Change "Ropen as c	een globally changed to "imple or" to "implementer" throughout <i>Response Status</i> <b>O</b> <b>5</b> <i>P</i> <b>56</b> Cisco Systen <i>Comment Status</i> <b>X</b> s wrong. Ropen is defined in Table 33-4," to "Rope	menter" in 802.3t document. <i>L</i> <b>51</b> ns able 33-6, not Tal en as defined in T	# 121

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn SORT ORDER: Clause, Subclause, page, line SC 33.2.5.5

C/ 33 SC 33.2.5.6 P 57 L 19 # 262	Cl 33 SC 33.2.5.6 P 60 L 12 # 143
immerman, George CME Consulting, Inc.	Schindler, Fred Seen Simply
omment Type T Comment Status X	Comment Type TR Comment Status X
"4PID shall be initially (TBD) determined as a logical function of the detection state of both Alternative A and Alternative B pair sets, the result of connection check as described in 33.2.5.0 and the results of other system information."	Dual Signature PDs may present different classification values on each pair set. Therefore, PSEs powering both pair sets need to identify the PD class to meet the PD power requested. A Dual Signature, PDs with isolated loads will need to see the classification steps to achieve mutual ID.
mutual identification is obviously needed, and is omitted from this list of specific information.	SuggestedRemedy
SuggestedRemedy	Strike the "(TBD)" in the draft sentence on line 12.
add ", mutual identification" after 33.2.5.0 and before "and" to read: "4PID shall be initially (TBD) determined as a logical function of the detection state of both Alternative A and Alternative B pair sets, the result of connection check as described in 33.2.5.0, mutual identification and the results of other system information." Proposed Response Response Status <b>0</b>	The text reads, "Subsequent to successful detection, all Type 3 and Type 4 PSEs perform classification using at least one of the following: Multiple-Event Physical Layer classification; or Multiple-Event Physical Layer classification and Data Link Layer classification. Both pair sets attached to a Dual-signature PD shall be classified by Type and Type 4 PSEs that will deliver 4-pair power. <i>Proposed Response</i> Response Status <b>O</b>
	Floposed Response Response Status U
C/33         SC 33.2.5.6         P 57         L 20         # 221           Dwelley, David         Linear Technology         # 21	CI 33         SC 33.2.6         P 57         L 37         # 180           Walker, Dylan         Cisco
Comment Type         E         Comment Status         X           "4PID shall be initially (TBD) determined as a logical function of the detection state of both Alternative A and Alternative B pair sets, the result"	Comment Type         ER         Comment Status         X           Move the DLL acronym to directly after the full name.
"Alternative A and Alternative B" are redundant here	SuggestedRemedy Replace:
uggestedRemedy Remove "Alternative A and Alternative B"	"There are two forms of classification: Physical Layer classification and Data Link Layer
roposed Response Response Status O	classification (DLL)."
	With:
	"There are two forms of classification: Physical Layer classification and Data Link Layer (DLL) classification."

CI 33 SC 33.2.6

C/ 33 SC 33.2.6	6 P 58	L <b>12</b>	# 95	C/ 33 SC 33.2.6	р <b>Б</b> 9	L 13	# 61
'seboodt, Lennart	Philips			Yseboodt, Lennart	Philips		
Comment Type TR	Comment Status X			Comment Type ER	Comment Status X		
"Rchan is the chanr Needs to be update	nel DC pair loop resistance."				1.0 not implemented.		
SuggestedRemedy				SuggestedRemedy Implement #42/D1.0	n		
"Rchan is the chanr	nel DC loop resistance."			Proposed Response	Response Status <b>O</b>		
Proposed Response	Response Status 0			r roposed nesponse			
			" [	C/ 33 SC 33.2.6	<i>P</i> 59	L 15	# 42
X 33 SC 33.2.6		L 18	# 96	Yseboodt, Lennart	Philips		
seboodt, Lennart	Philips			Comment Type E	Comment Status X		
comment Type TR	Comment Status X			Line weight in Table	e 33-8-PSE classification configu	urations is incons	sistent
Table 33-7. Comment #101 imp	plemented incorrectly.			SuggestedRemedy			
uggestedRemedy				Make this in the sar	me way as in the related table 3	3-15a (page 89)	
Undo changes. The Add "," before "whic	en: chever" in all entries. "lower" in all entries.			Proposed Response	Response Status <b>O</b>		
Proposed Response	Response Status <b>O</b>			C/ 33 SC 33.2.6	Р <b>59</b>	L <b>8</b>	# 223
				Dwelley, David	Linear Techn	ology	
X 33 SC 33.2.6	6 P 58	L 20	# [200	Comment Type T	Comment Status X		
/ 33 SC 33.2.6 welley, David	Linear Techn	-	# 222	"A PSE shall meet of	one of the allowable classification	on permutations I	isted in Table 33–8."
	Comment Status X	ology		Lennart has improve	ed Table 33-8 immensely, but n	ow it is virtuallv i	dentical to Table 33-3
	ready been wordsmithed to dea	th but "supporte	d" feels like the wrong	SuggestedRemedy		,	
word here	ready been wordsmittled to dea				o Table 33-3. Delete Table 33-8		
uggestedRemedy				Proposed Response	Response Status <b>O</b>		
Change "supported	" to "available" (also in Note 1).			· · · · · · · · · · · · · · · · · · ·	•••••••••••••••••••••••••••••••••••••••		
Alternately, change	to "Minimum power level the PS	SE must support	at its output (Pclass)"				
Proposed Response	Response Status O						

C/ 33 SC 33.2.6	P <b>59</b>	L <b>8</b>	# 237	C/ 33 SC 33.2.	6 P 76	L 33	# 88
Beia, Christian	STMicroelect	ronics		Yseboodt, Lennart	Philips		
Comment Type E	Comment Status X			Comment Type TR	Comment Status X		
The text has to be up	odated since Table 33-8 title ha	is changed		CommentID: LEN1			
SuggestedRemedy				Nearly every variat following the table.	ole in Table 33-11 has a corresp	oonding description	n in the sections
Change:				0	ith the addition of the new Type	es (3 and 4) we no	w need a definition
A PSE shall meet or With	e of the allowable classification	n permutations lis	sted in Table 33–8.	that makes sense.			
	e of the allowable classificatior	n configurations I	isted in Table 33–8.	SuggestedRemedy			
Proposed Response	Response Status O			Insert a section wit numbers. Content:	h number 33.2.7.12 "Type powe	er" and bump up th	ne following section
CI 33 SC 33.2.6	P 60	L 20	# 181	"P_Type (min) is th a PSE of that Type	e minimum power a PSE must	support to enable	the highest class that
Walker, Dylan	Cisco	L 20	π 101		ot required to support P_Type i	f they are restricte	d to class 5 power or
Comment Type ER	Comment Status X			lower.	at required to support D. Tupo i	f thay are reatriate	d to alogo 7 power or
	not to power dual-signature PE	Ds."		lower."	ot required to support P_Type i	i they are restricte	
	PSE can deny power for any re	eason irrespectiv	e of PD architecture.	"Type 4 PSEs shal for a duration longe	I not source more power than P er than 1 second."	P_Type max as spe	ecified in Table 33-11
SuggestedRemedy Remove it.				Proposed Response	Response Status O		
Proposed Response	Response Status 0						
				C/ 33 SC 33.2. Yseboodt, Lennart	6 P 77 Philips	L <b>33</b>	# 89
C/ 33 SC 33.2.6	P 60	L <b>22</b>	# 43	Comment Type TR	Comment Status X		
seboodt, Lennart	Philips			51	nitor either the DC MPS compo	onent, the AC MPS	
							component, or both.
· · · //·	Comment Status X						•
"Editor's Note: Meas addressed."	urement method and PSE mar	-	still need to be	There is no need for power.	or Type 3/4 PSEs to support mu		•
"Editor's Note: Meas addressed."		-	still need to be				•
"Editor's Note: Meas addressed." This has been done	urement method and PSE mar	).		power. SuggestedRemedy		ultiple MPS mecha	nisms as this wastes
"Editor's Note: Meas addressed." This has been done See yseboodt_Autoo	urement method and PSE mar	).		power. SuggestedRemedy	or Type 3/4 PSEs to support mu	ultiple MPS mecha	nisms as this wastes
"Editor's Note: Meas addressed." This has been done	urement method and PSE mar	).		power. <i>SuggestedRemedy</i> Baseline in yseboo	or Type 3/4 PSEs to support mu dt_baseline_mps_ac_v100.pdf	ultiple MPS mecha	nisms as this wastes
"Editor's Note: Meas addressed." This has been done See yseboodt_Autoo SuggestedRemedy	urement method and PSE mar	).		power. <i>SuggestedRemedy</i> Baseline in yseboo	or Type 3/4 PSEs to support mu dt_baseline_mps_ac_v100.pdf	ultiple MPS mecha	nisms as this wastes

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

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CI 33 SC 33.2.6	P 78	L 1	# 33	C/ 33 SC 33.2.6	6.2	P 61	L <b>47</b>	# 226
rseboodt, Lennart	Philips			Dwelley, David	l	_inear Techr	ology	
Comment Type E Co	omment Status X			Comment Type T	Comment Si	atus X		
"Editor's Note: Yair to review Pending acceptance of AC N		8+4, this note is r	edundant.	"The class events s the IMark_LIM curre		s_LIM currer	nt limitation. The r	mark events shall mee
SuggestedRemedy				This is the PSE sec	tion but these sour	d like PD re	quirements.	
Remove note.				SuggestedRemedy				
Proposed Response Re	sponse Status <b>O</b>			,			vent currents to IC	Class_LIM, and shall
C/ 33 SC 33.2.6.1	P 60	L 32	# 224	Note: this is old text	t from AT and may	need to be s	ubmitted as a ma	intenance request
Dwelley, David	Linear Techno	ology		Proposed Response	Response St	atus <b>O</b>		
Comment Type T Co	omment Status X							
in Table 33–10 only for a pai same as defined for VPort_F by Tpdc in Table 33–10." This text appears in 33.2.6.1 SuggestedRemedy	PSE-2P in 33.2.3 and ti	ming specificatio		Dwelley, David Comment Type E "The PSE shall mea according to Table :	<i>Comment</i> Sa asure IClass and cl		0,	# 225
Move text to 33.2.6 (perhaps	s near page 57 line 45)			This text appears th	nree times in this se	ction (lines 5	5, 20, and 27)	
Proposed Response Re	sponse Status <b>O</b>			SuggestedRemedy				
C/ 33 SC 33.2.6.2	P 20	L <b>20</b>	# 109					SS_EVn states, the ed current according to
Johnson, Peter	Sifos Technol	ogies		Proposed Response	Response St	atus <b>O</b>		
Comment Type E Co Typo - 'classify the PD only	omment Status X y once or both of the pa	ir sets.'						
Replace 'or' with 'on'.								
Replace 'or' with 'on'. SuggestedRemedy classify the PD only once o	on both of the pair sets							

C/ 33 SC 33.2.6.2	P 62	L 20	# 227	C/ 33 SC 33.2	.6.3 P 64	L 45	# 97
Dwelley, David	Linear Techno		π <b>∠∠</b> Ι	Yseboodt, Lennart	Philips	- <del>1</del> 5	π [ <b>31</b>
Comment Type T	Comment Status X single-signature PD, a PSE s	0,	PD only once or both	Comment Type TR		sure the power cor	nsumed during
SuggestedRemedy	xed, the meaning is not comp single-signature PD, a PSE s ir sets."		PD only once, using	SuggestedRemedy See yseboodt_Au Proposed Response	toclass_measurement_baseline Response Status <b>O</b>	e_v120.pdf (July m	eeting)
Proposed Response	Response Status 0			C/ <b>33</b> SC <b>33.2</b> Beia, Christian	.6.3 P 65 STMicroele	L 11 ectronics	# 238
CI 33 SC 33.2.6.2 Walker, Dylan Comment Type ER Misspelling. SuggestedRemedy	P 62 Cisco Comment Status X	L 21	# 182	The margin seem the table referring SuggestedRemedy			
of the pairsets."	single-signature PD, a PSE s	hall classify the	PD only once or both	Item   Parameter   3   Autoclass Ma	utoclass marin, all rows with: Symbol   Units   Min   Max  Add argin, 2 pair    %   0.14*PType argin, 4 pair    %   0.07*PType		1
With: "When connected to a of the pairsets."	single-signature PD, a PSE s	hall classify the	PD only once on both	Proposed Response	Response Status O		
Proposed Response	Response Status <b>O</b>						
C/ 33 SC 33.2.6.2 Yseboodt, Lennart	P <b>62</b> Philips	L <b>21</b>	# 62				
Comment Type ER "When connected to a of the pair sets."	Comment Status X single-signature PD, a PSE s	hall classify the	PD only once or both				
SuggestedRemedy "When connected to a or both of the pair sets	single-signature PD, a PSE s ."	hall classify the	PD only once on one				

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

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# IEEE P802.3bt D1.1 4-Pair Power over Ethernet 4th Task Force review comments

1 33 SC 33.2	.7 P 65	L <b>44</b>	# 98	C/ 33 S	C 33.2.7	P 66	L 17	# 228
seboodt, Lennart	Philips			Dwelley, David		Linear Techn	ology	
omment Type TF	Comment Status X			Comment Type	TR	Comment Status X		
"33.2.7 Power sup				Resubmitte	d comment	from D1.0:		
Figure 33-10. When the PSE p	nforms to the state diagrams rovides power to the PI, it sha ly with LPS (Limited Power S	Il conform with Table	e 33-11."	an AT devid	ce that clair	ymbols have _2p added to th ns to meet Vport_pse will no r set" can stay, as all valid A	t find a spec with	that name anymore.
To that effect we	nave introduced P_Type max	for Type 4 at 99.9W	1	' SuggestedRem	edv			
This alone is not e	enough and we need to introc	uce a normative stat	tement.		-	rom Items 1 and 4-10. Chang	ue Table 33-11 tit	tle to "PSE output
If comment LEN1	is adopted, this comment is	OBE.				per pair set for all PD classe		•
ggestedRemedy				Proposed Resp	onse	Response Status O		
"Type 4 PSEs sha for a duration long	of 33.2.7 (Power supply outpu all not source more power that ger than 1 second."		pecified in Table 33-11		C 33.2.7	P 66	L <b>29</b>	# 264
				Zimmerman, G	eorge	CME Consul	ting, inc.	
oposed Response	Response Status <b>O</b>			Comment Type "Editor's No		Comment Status X the above sentence to refere	ence Type 3/4 sta	ate diagram when sta
33 SC 33.2 merman, George nment Type TF	.7 P 65 CME Co	L <b>48</b> nsulting, Inc. in Figure 33–9, Figu	# 263	"Editor's No diagram is	ote: Update complete." wait if you <i>edy</i>	Comment Status X the above sentence to refere know it needs to be done, just		-
33 SC 33.2 merman, George ment Type TF "PSE behavior co Figure 33–10." This restatement 2 PSEs only, and	.7 P 65 CME Co & Comment Status X	nsulting, Inc. in Figure 33–9, Figu ds modification to po	rre 33–9 continued, and oint to Type 1 and Type	"Editor's No diagram is No need to <i>SuggestedRem</i> Delete edito <i>Proposed Resp</i>	ote: Update complete." wait if you edy or's note. onse	the above sentence to refere		s where needed.
33 SC 33.2 merman, George <i>mment Type</i> TF "PSE behavior co Figure 33–10." This restatement 2 PSEs only, and state diagram.	.7 P 65 CME Co COMMENT Status X Informs to the state diagrams	nsulting, Inc. in Figure 33–9, Figu ds modification to po	rre 33–9 continued, and oint to Type 1 and Type	"Editor's No diagram is No need to SuggestedRem Delete edito Proposed Resp	te: Update complete." wait if you edy or's note. onse	the above sentence to reference to reference to be done, just Response Status <b>O</b>		-
33 SC 33.2 merman, George mment Type TF "PSE behavior co Figure 33–10." This restatement 2 PSEs only, and state diagram. ggestedRemedy Delete the redund	.7 P 65 CME Co Comment Status X nforms to the state diagrams of the earlier requirement nee may need an additional state ant restatement "PSE behav	nsulting, Inc. in Figure 33–9, Figu ds modification to pr ment for Type 3 & 4 or conforms to the s	oint to Type 1 and Type PSEs to point to TBD	"Editor's No diagram is No need to SuggestedRem Delete edito Proposed Resp C/ 33 Si Yseboodt, Lenr	te: Update complete." wait if you edy or's note. onse C 33.2.7 art	the above sentence to reference to reference to be done, just Response Status <b>O</b> <i>P</i> 66 Philips	st put in the TBDs	s where needed.
33 SC 33.2 merman, George mment Type TF "PSE behavior co Figure 33–10." This restatement 2 PSEs only, and state diagram. ggestedRemedy Delete the redund 33–9, Figure 33–5 Alternatively, char	.7 P 65 CME Co Comment Status X Informs to the state diagrams of the earlier requirement near may need an additional state ant restatement "PSE behav continued, and Figure 33–1 inge to read: "Type 1 and Typ	in Figure 33–9, Figu ds modification to po ment for Type 3 & 4 or conforms to the s )."	rre 33–9 continued, and oint to Type 1 and Type PSEs to point to TBD tate diagrams in Figure nforms to the state	"Editor's No diagram is No need to <i>SuggestedRem</i> Delete edito <i>Proposed Resp</i> <i>Cl</i> <b>33</b> Si Yseboodt, Lenr <i>Comment Type</i>	te: Update complete." wait if you edy or's note. onse C 33.2.7 art E ence to the	the above sentence to reference to reference to be done, just Response Status <b>O</b>	L 33	s where needed.
33 SC 33.2 mmerman, George mment Type TF "PSE behavior co Figure 33–10." This restatement 2 PSEs only, and state diagram. ggestedRemedy Delete the redund 33–9, Figure 33–9 Alternatively, char diagrams in Figure	.7 P 65 CME Co CME Co Comment Status X Informs to the state diagrams of the earlier requirement near may need an additional state ant restatement "PSE behav continued, and Figure 33–1	in Figure 33–9, Figu ds modification to po ment for Type 3 & 4 or conforms to the s )." a 2 PSE behavior co d, and Figure 33–10	rre 33–9 continued, and oint to Type 1 and Type PSEs to point to TBD tate diagrams in Figure nforms to the state	"Editor's No diagram is No need to SuggestedRem Delete edito Proposed Resp Cl 33 St Yseboodt, Lenr Comment Type Add a refer SuggestedRem	te: Update complete." wait if you edy or's note. onse C 33.2.7 art E ence to the edy	the above sentence to refere know it needs to be done, just <i>Response Status</i> <b>O</b> <i>P</i> 66 Philips <i>Comment Status</i> <b>X</b>	<i>L</i> <b>33</b> 2 33-7, Item 1b].	where needed.

CI 33 SC 33.2.7

lachaadt Lannart	P 66	L 33	# 77	C/ 33 SC 33.2.7	P <b>66</b> Sifos Techno	L 51	# 112
rseboodt, Lennart	Philips			Johnson, Peter		logies	
<i>Comment Type</i> <b>T</b> Tpud value is TBD. [Ta	Comment Status X able 33-7, Item 1b].			Comment Type <b>T</b> Table 33-11 Item 4:	Comment Status X		
SuggestedRemedy Tdelay-2P = 80ms Tinrush-2p = [50ms - 7 Therefore a T_pud = 4				SuggestedRemedy	n-2P specifications appear to ne o Type 3,4 4-pair mode.	eed to reference	e paragraph 33.2.7.4.
Proposed Response	Response Status O			Proposed Response	Response Status O		
C/ <b>33</b> SC <b>33.2.7</b>	P 66 Philips	L <b>33</b>	# 99	C/ <b>33</b> SC <b>33.2.7</b> Abramson, David	P 66 Texas Instrur	L <b>52</b> nents	# 6
Comment Type TR	Comment Status X			Comment Type TR	Comment Status X		
the "PSE upperbound This essentially allows	ed from the pair set of a PSE template" in Figure 33-14." a PSE to disconnect 1 pairs hen instantly be carried by the	et from a PD that	is in over-current.	The Icon-2p value is Class 0-4 PDs have	es to Table 33-11, item 4. not correct for Type 3/4 PSEs no unbalance requirement and represented in item 4.		
thermal stress. We cannot expect that this would preclude sep specify the maximum ti possible. SuggestedRemedy	a PSE can synchronize the parate controllers, but we sho ime and try to limit thermal s	buld		remove "2-pair mode mode.	e" from middle row of item 4 so See 33.2.7.4." to additional in <i>Response Status</i> <b>O</b>		
thermal stress. We cannot expect that this would preclude sep specify the maximum ti possible. SuggestedRemedy Add the following line to	parate controllers, but we sho ime and try to limit thermal s o Table 33-11: v between pair sets for single	ould tress on the PD a	nd PSE as much as	remove "2-pair mode mode. Add "Class 5-8 only.	See 33.2.7.4." to additional in		
thermal stress. We cannot expect that this would preclude sep specify the maximum ti possible. SuggestedRemedy Add the following line to 1c, "Power down delay See 33.2.7.TBD, 33.2.7	parate controllers, but we sho ime and try to limit thermal s o Table 33-11: v between pair sets for single	ould tress on the PD a -signature PDs, T	nd PSE as much as	remove "2-pair mode mode. Add "Class 5-8 only. <i>Proposed Response</i> <i>Cl</i> 33 SC 33.2.7 Yseboodt, Lennart <i>Comment Type</i> E	See 33.2.7.4." to additional in <i>Response Status</i> <b>O</b> <i>P</i> <b>67</b> Philips	formation row fo	or bottom row of item 4
thermal stress. We cannot expect that this would preclude sep specify the maximum ti possible. SuggestedRemedy Add the following line to 1c, "Power down delay See 33.2.7.TBD, 33.2.7 I would prefer a value of Add a new section to e "A PSE that is powering	parate controllers, but we sho ime and try to limit thermal s o Table 33-11: / between pair sets for single 7.5	ould tress on the PD a -signature PDs, T Type 4), TF to disc d section): ass 5 or higher ar	_pdd, s, , TBD, (3,4), cuss.	remove "2-pair mode mode. Add "Class 5-8 only. <i>Proposed Response</i> <i>Cl</i> 33 SC 33.2.7 Yseboodt, Lennart <i>Comment Type</i> E	See 33.2.7.4." to additional in Response Status <b>O</b> P 67 Philips Comment Status <b>X</b>	formation row fo	or bottom row of item 4

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	C/ 33	Page 28 of 60
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn	SC 33.2.7	7/7/2015 11:33:39 AM
SORT ORDER: Clause, Subclause, page, line		

C/ 33 SC 33.2.7	P 67	L <b>7</b>	# 113	CI 33	SC 33.2.7	P 68	L 3439	# 130
Johnson, Peter	Sifos Technol	ogies		Darshan, Yair		Microsemi		
Comment Type <b>T</b>	Comment Status X			Comment Type	e ER	Comment Status X		
currents below Ilim_mir the operating current te source current, even in	M value for Icon-2P-unb is an n can be sourced indefinitely emplate. So Icon-2P-unbal c a perfectly balanced system	by a PSE accor annot be a MAX	ding to figure 33-14, <imum for="" pse<="" td="" value=""><td>Table 33-1 The text: " of the sam (which is the suggested Ref</td><td>I1 item 17, a The pair set ne polarity ar he positive a <i>medy</i></td><td>cepted in D1.0 and was not ex dditional information column, with highest current" is not cle d we care of the pair with the nd negative pairs of a pair set th highest current" in two loca</td><td>line 12 ear since we are highest current a t) with the highes</td><td>and not the pair-set</td></imum>	Table 33-1 The text: " of the sam (which is the suggested Ref	I1 item 17, a The pair set ne polarity ar he positive a <i>medy</i>	cepted in D1.0 and was not ex dditional information column, with highest current" is not cle d we care of the pair with the nd negative pairs of a pair set th highest current" in two loca	line 12 ear since we are highest current a t) with the highes	and not the pair-set
	MUM values? If so, then they the the they the			Proposed Res	•	Response Status <b>O</b>		
	problem that Icon-2P-unbal i Icon and Pclass. This dispa lass as formulas.				SC 33.2.7	P 68	L <b>45</b>	# 18
SuggestedRemedy				Yseboodt, Len	nart	Philips		
	e to specify 'Icon' as the mini		nuous current on all	Table 33-1 C.	1, item 17b,	additional information, Pclass	s 'class' not in su	bscript and no capita
3, there is only one pow PSE-2p regardless of p Then separately specify	y 'Icon-Pair-max' as the minir	he minimum for num total contin	Icon is Pclass/Vport-	SuggestedRer Replace b Proposed Res	y P_Class.	Response Status <b>O</b>		
3, there is only one pow PSE-2p regardless of p Then separately specify single pair set including be Icon but for 4-Pair p current assuming Vport	vered pair set. In this case, t pair-to-pair unbalance. y 'Icon-Pair-max' as the minir g effects of pair-to-pair unbala owering, would be a formula t-PSE-2p and worst case sys	he minimum for num total contin ance. For 2-pair used to comput	Icon is Pclass/Vport- nuous current on a powering, this would e maximum pair set	SuggestedRer Replace b Proposed Res Cl 33	y P_Class. ponse SC <b>33.2.7</b>	Р 68	L 46	# 183
3, there is only one pow PSE-2p regardless of p Then separately specify single pair set including be Icon but for 4-Pair p current assuming Vport Proposed Response	vered pair set. In this case, t pair-to-pair unbalance. y 'Icon-Pair-max' as the minir g effects of pair-to-pair unbala owering, would be a formula t-PSE-2p and worst case sys <i>Response Status</i> <b>O</b>	he minimum for num total contin ance. For 2-pair used to comput tem unbalance.	Icon is Pclass/Vport- nuous current on a powering, this would e maximum pair set	SuggestedRer Replace b Proposed Res Cl 33 S Walker, Dylan Comment Type	y P_Class. ponse SC 33.2.7 e T	P 68 Cisco Comment Status X	L 46	# 183
3, there is only one pow PSE-2p regardless of p Then separately specify single pair set including be Icon but for 4-Pair po current assuming Vport Proposed Response	vered pair set. In this case, t pair-to-pair unbalance. y 'Icon-Pair-max' as the minir g effects of pair-to-pair unbala owering, would be a formula t-PSE-2p and worst case sys	he minimum for num total contin ance. For 2-pair used to comput	Icon is Pclass/Vport- nuous current on a powering, this would e maximum pair set	SuggestedRer Replace b Proposed Res Cl <b>33</b> S Walker, Dylan Comment Type Table 33-1 After round	y P_Class. <i>ponse</i> 5C <b>33.2.7</b> <i>e</i> <b>T</b> 11, Item 17b, ding, the DC	P 68 Cisco Comment Status X Max column MPS max for the sum is not o		
3, there is only one pow PSE-2p regardless of p Then separately specify single pair set including be Icon but for 4-Pair pr current assuming Vport Proposed Response	vered pair set. In this case, t pair-to-pair unbalance. y 'Icon-Pair-max' as the minir g effects of pair-to-pair unbala owering, would be a formula t-PSE-2p and worst case sys <i>Response Status</i> <b>O</b> <i>P</i> 68 Philips <i>Comment Status</i> <b>X</b> 4 only list Type 1 and 2.	he minimum for num total contin ance. For 2-pair used to comput tem unbalance.	Icon is Pclass/Vport- nuous current on a powering, this would e maximum pair set	SuggestedRer Replace b Proposed Res Cl 33 S Walker, Dylan Comment Type Table 33-1 After round which look SuggestedRer	y P_Class. ponse 6C 33.2.7 e T I1, Item 17b, ding, the DC cs a little stra	P 68 Cisco <i>Comment Status</i> X Max column MPS max for the sum is not onge.		
3, there is only one pow PSE-2p regardless of p Then separately specify single pair set including be Icon but for 4-Pair pr current assuming Vport Proposed Response CI 33 SC 33.2.7 Yseboodt, Lennart Comment Type T Items 13, 21, 23 and 24	vered pair set. In this case, t bair-to-pair unbalance. y 'Icon-Pair-max' as the minir g effects of pair-to-pair unbala owering, would be a formula t-PSE-2p and worst case sys <i>Response Status</i> <b>O</b> <i>P</i> 68 Philips <i>Comment Status</i> <b>X</b> 4 only list Type 1 and 2. so for the new Types.	he minimum for num total contin ance. For 2-pair used to comput tem unbalance.	Icon is Pclass/Vport- nuous current on a powering, this would e maximum pair set	SuggestedRer Replace b Proposed Res Cl 33 S Walker, Dylan Comment Type Table 33-1 After round which look SuggestedRer	y P_Class. ponse SC 33.2.7 e T 11, Item 17b, ding, the DC as a little stra medy 009 to 0.010	P 68 Cisco <i>Comment Status</i> X Max column MPS max for the sum is not onge.		

C/ 3	3	
SC 3	3.2.7	

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C/ 33 SC 33.2.7	P 69	L 12	# 229	C/ 33 SC 33.2.7	P 69	L 28	# 244
Dwelley, David	Linear Techr	lology		Beia, Christian	STMicroelec	ctronics	
Comment Type T	Comment Status X			Comment Type TR	Comment Status X		
Table 33-11 item 20 unbalance specs no	: "Current unbalance" is the old	1 2P AT paramete	er - we have two	Table 33-11			
SuggestedRemedy				Footnote 1:	nt of both pairs of the same po	larity aball pat ave	had
Change parameter t	itle to "Inter-pair current unbala	ance" to match Ar	nnex 33A-3 title		0.5*(PType/VPort_PSE_2P)*(		
Proposed Response	Response Status <b>O</b>				e effect of system end to end n the standard explicitly"	pair-to-pair resista	ince/current unbalance
CI 33 SC 33.2.7		L 16	# 74		equirement and at the same ti explicative note instead.	ime leaves the "a'	parameter undefined.
Yseboodt, Lennart	Philips			SuggestedRemedy			
Comment Type T Table 33-11, item 2 <sup>-7</sup> Tdbo is only defined It remains valid also SuggestedRemedy		vans.		PType/VPort_PSE= )*(1-a), where a is th	t of both pairs of the same pol 0.5*(PType/VPort_PSE_2P)*( e effect of system end to end n the standard explicitly	(1+a)+ 0.5*(PType	/VPort_PSE_2P
add Type 3,4 to this	row.			Proposed Response	Response Status O		
Proposed Response	Response Status O						
				C/ 33 SC 33.2.7	P 69	L 28	# 230
				Dwelley, David	Linear Tech	nology	
				Comment Type T	Comment Status X		
				PType/VPort_PSE =	rt current of both pairs of the s 0.5*(PType/VPort_PSE_2P)* ect of system end to end pair- e standard explicitly."	(1+a) + 0.5*(PTyp	e/VPort_PSE_2P)*(1-
				"Shall" in a note is n	ot normative.		
				SuggestedRemedy			
					text to section 33.2.7.4a (when haps near page 72 line 13.	ere Additional Info	rmation for item 4a
				aiready points) - per	iaps near page 12 line 13.		

CI 33 SC 33.2.7

CI 33 SC Yseboodt, Lenn	C 33.2.7	P <b>69</b> Philips	L <b>28</b>	# 84	Cl 33 Zimmerma	SC <b>33.2.7</b> an, George	P <b>70</b> CME Consu	L <b>1</b>	# 265
Comment Type		Comment Status X			Comment		Comment Status X	ung, mo.	
Note 1: "The total p	ort current o	of both pairs of the same pol e /V Port_PSE_2P )*(1+a)	arity shall not ex	ceed P Type /V	"4ltem		PSEs that implement MPS d	etection by measu	uring sum of the pair
+ 0.5*(P Ty	ype /V Port_	PSE_2P)*(1-a), where a is	the effect of syst	em end to end pair to	Note 4	4 is on new page	e - should be with table and p	revious notes.	
		unbalance that standard explicitly."			Suggestee	dRemedy			
Note 1 has	a few proble	ems:			chang next.	e formatting in n	otes to keep with next for no	tes 1-3, note 4 do	esn't need keep with
<ul> <li>a is undefi</li> </ul>	ined	ich is not appropriate for a n			Proposed	Response	Response Status O		
		tal current restriction that wo rrent limit over the two pairse		be to maintain a					
- The total r	, maximum cı	irrent according to this note	is exactly enoug	h to deliver PType	C/ 33	SC 33.2.7	P 70	L <b>54</b>	# 85
	0	to set the current cut-off in	certain classes.		Yseboodt,	Lennart	Philips		
SuggestedRem	-				Comment	51	Comment Status X		
Replace the "In a compl	,	under normal operating cor	ditions. the total	current of pairs with			T_pud value is needed.		
the same p	olarity will n	ot exceed Ptype/Vport_pse-2			Suggestee	•			
( Icon_2P_เ	unb ) + ( 2*l	con_2P - Icon_2P_unb )"			Add a Conte		2.7.x "Pair set power up dela	y".	
Proposed Resp	C 33.2.7	Response Status O	L 28	# 115	"A PS sets to the P0	E that will power	a single signature PD using with a maximum delay of T_		
Johnson, Peter		Sifos Techno					cond pair set to POWER_UI	P."	
Comment Type	, т	Comment Status X	C C		Proposed	Response	Response Status 0		
		t to both pairs of the same p	plarity shall not e	exceed					
PType/Vpo	$rt_PSE = 0.$	5*(PType/Vport_PSE_2P)*(1			CI 33	SC 33.2.7.1	D P 76	L 14	# 32
where a is t	the effect				Yseboodt,		Philips	L 14	# 32
		SE may furnish up to Ilim-2P		according to Figure 33-	Comment		Comment Status X		
		nt template. Ilim-2P_min is 2P) that really represents the		uired output power of a		51	ower defined in 33.2.6 and E	austion (33-3) or	. "
		port_PSE-2P_min.	le minimum req					quation (55-5), of	
SuggestedRem	nedy				Suggester		quation number are unneed	d Romaya	
	n here depe	nds on any structural chang	es to Icon-2P an	d Icon-2P-unb that		Response	Response Status <b>O</b>	ed. Remove.	
One option	is to simply	remove the footnote altoget	her.						
Proposed Resp	oonse	Response Status 0							

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

C/ 33 SC 33.2.7.10 Page 31 of 60 7/7/2015 11:33:40 AM

Dwelley, David	P <b>76</b> Linear Techno	L 26	# 235	C/ <b>33</b> Yseboodt, L	SC 33.2.7.4	P <b>71</b> Philips	L <b>26</b>	# 75
Comment Type T	Comment Status X	biogy		Comment T		Comment Status X		
"33.2.7.11 Current unba	alance"			"For Ty	oe 3 and Type	4 PSEs, I Con-2P as spec	cified in Table 33-1	1 shall be met when
We have more than on	e kind of current imbalance n	IOW.			no end to end pair current un	balance. When end to end	d pair-to-pair curren	t unbalance is present,
SuggestedRemedy					n-2P may	ue of I Con-2P-UNB as sp		11 itom 12. In addition
Change title to: "33.2.7	.11 Inter-pair current unbalan	nce"		to I Con		te of i Con-2P-OND as sp	ecilied by Table 33	
Proposed Response	Response Status <b>O</b>			parame	ers per pair se	11, the PSE shall support t, iing voltage range of V Pc	Ū	urrent waveform
C/ 33 SC 33.2.7.12	P 76	L <b>40</b>	# 266	The sh	all statement is	unclear.		
Zimmerman, George	CME Consulti	ing, Inc.		SuggestedF	emedv			
Comment Type TR	Comment Status X 4 PSEs, when connected to a	a single-signature	PD both pair sets		wing AC curre		cified in Table 33-1	1, the PSE shall support
	R_ON state within Tpon after				ters, while with	in the operating voltage r	ange of V Port_PSI	E :"
	R_ON state within Tpon after					in the operating voltage r Response Status <b>O</b>	ange of V Port_PS	E :"
must reach the POWEI	R_ON state within Tpon after			parame			ange of V Port_PS	E :"
must reach the POWEI	R_ON state within Tpon after be "shall"?			parame			ange of V Port_PSI	E :" # <u>2</u> 31
must reach the POWEI "must"? shouldn't this SuggestedRemedy	R_ON state within Tpon after be "shall"?			parame Proposed R	esponse SC <b>33.2.7.4</b>	Response Status 0	L 26	
must reach the POWEI "must"? shouldn't this SuggestedRemedy change "must" to "shall	R_ON state within Tpon after be "shall"? I"			parame Proposed R  CI <b>33</b>	esponse SC <b>33.2.7.4</b> vid	Response Status 0	L 26	
must reach the POWEI "must"? shouldn't this SuggestedRemedy change "must" to "shall	R_ON state within Tpon after be "shall"? I"			parame Proposed R Cl 33 Dwelley, Da Comment T "For Ty there is unbalar	SC 33.2.7.4 vid /pe E be 3 and Type no end to end	Response Status 0 P71 Linear Ter Comment Status X 4 PSEs, ICon-2P as spec pair-to-pair current unbala he ICon-2P may increase	<i>L</i> 26 chnology ified in Table 33-11 ince. When end to	# 2 <u>31</u> shall be met when end pair-to-pair current
must reach the POWEI "must"? shouldn't this SuggestedRemedy change "must" to "shall	R_ON state within Tpon after be "shall"? I"			Proposed R Cl 33 Dwelley, Da Comment T "For Ty there is unbalar specifie	SC 33.2.7.4 vid vpe E be 3 and Type no end to end ce is present, i d by Table 33-	Response Status 0 P71 Linear Ter Comment Status X 4 PSEs, ICon-2P as spec pair-to-pair current unbala he ICon-2P may increase	<i>L</i> 26 chnology ified in Table 33-11 ince. When end to up to the value of	# 231 shall be met when end pair-to-pair current ICon-2P-UNB as
must reach the POWEI "must"? shouldn't this SuggestedRemedy change "must" to "shall	R_ON state within Tpon after be "shall"? I"			Proposed R Cl 33 Dwelley, Da Comment T "For Ty there is unbalar specifie	SC 33.2.7.4 vid vpe E be 3 and Type no end to end ce is present, 1 d by Table 33- wo sentences h	Response Status 0 P71 Linear Ter Comment Status X 4 PSEs, ICon-2P as spec pair-to-pair current unbala he ICon-2P may increase 11 item 4a."	<i>L</i> 26 chnology ified in Table 33-11 ince. When end to up to the value of	# 231 shall be met when end pair-to-pair current ICon-2P-UNB as
must reach the POWEI "must"? shouldn't this SuggestedRemedy change "must" to "shall	R_ON state within Tpon after be "shall"? I"			parame Proposed R CI 33 Dwelley, Da Comment T "For Ty there is unbalar specifie These t SuggestedF Move tv	SC 33.2.7.4 vid vpe E pe 3 and Type no end to end ce is present, t d by Table 33- wo sentences b cemedy	Response Status 0 P71 Linear Ter Comment Status X 4 PSEs, ICon-2P as spec pair-to-pair current unbala he ICon-2P may increase 11 item 4a."	<i>L</i> 26 chnology ified in Table 33-11 ince. When end to up to the value of a (which should be	# 231 shall be met when end pair-to-pair current ICon-2P-UNB as named 33.2.7.4.1)

ohnson, Peter	P <b>71</b> Sifos Techno	L <b>27</b> ologies	# 114	C/ <b>33</b> Walker, Dy	SC <b>33.2.7.4</b> /lan	P <b>71</b> Cisco	L <b>45</b>	# 184
omment Type <b>T</b>	Comment Status X			Comment		Comment Status X		
	4 PSEs, Icon-2P as specified	d in Table 33-11 ៖	shall be met when there		ot italicized.	Common Claudo K		
is no end to end pair-to	o-pair current unbalance. Wh	hen end to end pa	air-to-pair current	Suggested				
unbalance is present,	the Icon-2P may incrase up	to the value of Ico	on-2P-UNB"	00	2	other variable names.		
	gests that somehow the PSE AY increase Icon-2P UP TO interpret.			Proposed		Response Status <b>O</b>		
uggestedRemedy				C/ 33	SC 33.2.7.4a		L <b>51</b>	# 58
No replacement langu	Yseboodt,	Lennart	Philips					
Table 33-11.	0 00	,	1 0	Comment	Type ER	Comment Status X		
	forced as a sum of all power ver (continuous output currer at all.			for a T		s based on curve fit and is o 4 system that operates as 4	,	ven by
Description				Wrong	Equation referer	nce.		
	ns by which a PSE escalates , a PSE could 'KNOW' that p			Suggested	Remedy			
considered following a	Single Signature connection	n check. Convers	sely, a Dual Signature	Chang	e to:			
PD with dissimilar clas roposed Response	ss signatures might exempt t Response Status <b>O</b>	he PSE from Icor	1-2P-unb escalation.	for a T		s based on curve fit and is o 4 system that operates as 4		ven by
				Proposed	Response	Response Status <b>O</b>		
	P <b>71</b>	L <b>40</b>	# 86			•		
<b>33</b> SC <b>33.2.7.4</b>					<u> </u>		1.10	
	Philips							# 04
seboodt, Lennart	Philips Comment Status X			Cl 33	SC 33.2.7.4a		L 10	# 21
eboodt, Lennart	•	n 33.1.4; this para	ameter has a worst-	Yseboodt,	Lennart	Philips	L 10	# 21
seboodt, Lennart	Comment Status X loop resistance as defined in	n 33.1.4; this para	ameter has a worst-	Yseboodt, Comment	Lennart <i>Type</i> <b>E</b>	Philips Comment Status X	-	
seboodt, Lennart <i>omment Type</i> <b>TR</b> "Rchan is the channel case value of R Ch , of Rchan is not defined i	Comment Status X loop resistance as defined in defined in Table 33-1" in 1.4.		ameter has a worst-	Yseboodt, <i>Comment</i> "The c	Lennart <i>Type</i> <b>E</b>	Philips	-	
seboodt, Lennart <i>comment Type</i> <b>TR</b> "Rchan is the channel case value of R Ch , co Rchan is not defined i Rchan worst case value	Comment Status X loop resistance as defined in defined in Table 33-1"		ameter has a worst-	Yseboodt, <i>Comment</i> "The c the wh	Lennart Type E ontribution of PS ole effective"	Philips Comment Status X	-	
seboodt, Lennart omment Type TR "Rchan is the channel case value of R Ch , o Rchan is not defined i Rchan worst case valu uggestedRemedy	Comment Status X loop resistance as defined in defined in Table 33-1" in 1.4.	wer.		Yseboodt, <i>Comment</i> "The c the wh	Lennart <i>Type</i> <b>E</b> ontribution of PS ole effective" g space between	Philips <i>Comment Status</i> <b>X</b> E PI pair to pair effective re	-	
seboodt, Lennart comment Type <b>TR</b> "Rchan is the channel case value of R Ch , c Rchan is not defined i Rchan worst case valu uggestedRemedy "Rchan is the channel case value of R_Ch w	Comment Status X loop resistance as defined in defined in Table 33-1" in 1.4. ue depends on 2P or 4P pov	wer. rameter has a wor r set and R_Ch/2	rst-	Yseboodt, <i>Comment</i> "The c the wh Missin <i>Suggested</i> Replac "The c	Lennart <i>Type</i> <b>E</b> ontribution of PS ole effective" g space between <i>Remedy</i> ce by ontribution of PS	Philips <i>Comment Status</i> <b>X</b> E PI pair to pair effective re	sistance unbaland	ce(PSE_P2PRunb) to
Seboodt, Lennart Comment Type <b>TR</b> "Rchan is the channel case value of R Ch , c Rchan is not defined i Rchan worst case value SuggestedRemedy "Rchan is the channel case value of R_Ch w	Comment Status X loop resistance as defined in defined in Table 33-1" in 1.4. ue depends on 2P or 4P pov DC loop resistance; this par then powering using one pair	wer. rameter has a wor r set and R_Ch/2	rst-	Yseboodt, <i>Comment</i> "The c the wh Missin <i>Suggested</i> Replac "The c	Lennart <i>Type</i> <b>E</b> ontribution of PS ole effective" g space between <i>Remedy</i> ce by ontribution of PS ole effective"	Philips <i>Comment Status</i> <b>X</b> E PI pair to pair effective re n unbalance and (	sistance unbaland	ce(PSE_P2PRunb) to

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/generalC/ 33Page 33 of 60COMMENT STATUS: D/dispatched A/accepted R/rejectedRESPONSE STATUS: O/open W/written C/closed Z/withdrawnSC 33.2.7.4a7/7/2015 11:33:40 AMSORT ORDER: Clause, Subclause, page, line

C/ 33 SC 33.2.7.4a P72 L 11 # 22 C/ 33 SC 33.2.7.4a P72 L 21 # 24 Yseboodt, Lennart Philips Yseboodt, Lennart Philips Comment Status X Comment Type E Comment Status X Comment Type E Annex 33B is for autoclass not P2P unbalance "... to the whole effective system end to end resistance/current unbalance (E2EP2PRunb) .... " SuggestedRemedy E2EP2PRunb should stand for 'system end to end resistance/current unbalance'. Use Annex 33A. SuggestedRemedy Proposed Response Response Status 0 Replace by "... to the whole effective system end to end resistance unbalance (E2EP2PRunb),..." C/ 33 SC 33.2.7.4a P72 L 27 # 25 Yseboodt. Lennart Philips Proposed Response Response Status 0 Comment Type E Comment Status X Ohm sign after formula does not match style of other formulas. C/ 33 SC 33.2.7.4a P72 L 17 # 116 SuggestedRemedy Johnson. Peter Sifos Technologies Ohm sign smaller and bottom right. Comment Type **T** Comment Status X Proposed Response Response Status 0 ... The sum of the current of all pairs with the same polarity shall not exceed Pclass/VPSF This statement is not true. At the PSE interface, current can continously be sourced up to C/ 33 SC 33.2.7.4a P72 L 33 # 26 the value of Ilim\_min-2P as shown in Figure 33-14, the operating current template. Yseboodt, Lennart Philips Pclass/VPSE is the minimum required current capacity at the PSE interface given a particular Pclass PD. Comment Type E Comment Status X Rpair min is italic Also, "VPSE" is not a defined parameter in Table 33-11. SuggestedRemedy SuagestedRemedv Change Pair min to non-italic Remove this statement. Proposed Response Response Status 0 Proposed Response Response Status 0 C/ 33 SC 33.2.7.4a P72 L7 # 232 C/ 33 SC 33.2.7.4a P72 L 19 # 23 Linear Technology Dwelley, David Yseboodt, Lennart Philips Comment Type E Comment Status X Comment Type E Comment Status X Typo: "Pair-to-Ppair-to-pairair" Space missing between number and 'ohm' symbol. 3 occurences. SuggestedRemedy SuggestedRemedy Fix Add space. Proposed Response Response Status 0 Proposed Response Response Status 0

IEEE P802.3bt D1.1 4-Pair Power over Ethernet 4th Task Force review comments

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/generalC/ 33COMMENT STATUS: D/dispatched A/accepted R/rejectedRESPONSE STATUS: O/open W/written C/closed Z/withdrawnSC 33.2.7.4aSORT ORDER: Clause, Subclause, page, lineSC 33.2.7.4aSC 33.2.7.4a

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Bullock, Chris       Cisco Systems       Yseboott, Lennart       Philips         Comment Type       E       Comment Status X       Type 3 and Type 4 PSE sperating over 4-pair are subject to*       4-pairs is not used in rest of document         SuggestedRemedy       Change "PSE PI Pair-to-pairair" to "PSE PI Pair-to-pairair" to "PSE PI Pair-to-pairair" to "PSE PI Pair-to-pairair resistance and current unbalance"       SuggestedRemedy       Cl 33       SC 33.2.7.4       P72       L 7       # 19         Yseboott, Lennart       Philips       Comment Status X       O       Cl 33       SC 33.2.7.4       P72       L 40       # 140         Comment Type E       Comment Status X       SuggestedRemedy       The complete the Tool Class 3.2.7.4.0       # 140         Comment Type TR       Comment Status X       Comment Status X       Microsemi         SuggestedRemedy       TR       Comment Status X       Microsemi         Yes ped to chair tesistance and current unbalance*       Proposed Response       Response Status 0       Comment Status X       Microsemi         Comment Type E R       Comment Status X       SuggestedRemedy       The compliance with system E2EP2Plunb is function of power level and we care only for the worst case conflion and maximum system oparting power class level.         SuggestedRemedy       Sa.2.7.4 as pscton heading has a duplicate "pair-to-pair" randomly inserted.       Su	Cl 33 SC 33.2.7.4 Bullock, Chris	la P72	L <b>7</b>	# 122	C/ 33 SC 33.2.7.4	la P 72 Philips	L <b>9</b>	# 20
<ul> <li>"PSE PI Pair-to-Ppair-to-pairal" should be "PSE PI Pair-to-pair"</li> <li>"type 3 and Type 4 PSEs operating over 4-pair are subject to"</li> <li>"type 3 and Type 4 PSEs operating over 4-pair are subject to"</li> <li>"type 3 and Type 4 PSEs operating over 4-pair are subject to"</li> <li>"type 3 and Type 4 PSEs operating over 4-pair are subject to"</li> <li>"type 3 and Type 4 PSEs operating over 4-pair are subject to"</li> <li>"type 3 and Type 4 PSEs operating over 4-pair are subject to"</li> <li>"type 3 and Type 4 PSEs operating over 4-pair are subject to"</li> <li>"type 3 and Type 4 PSEs operating over 4-pair are subject to"</li> <li>"type 3 and Type 4 PSEs operating over 4-pair are subject to"</li> <li>"type 3 and Type 4 PSEs operating over 4-pair are subject to"</li> <li>"type 3 and Type 4 PSEs operating over 4-pair are subject to"</li> <li>"type 3 and Type 4 PSEs operating over 4-pair are subject to"</li> <li>"type 3 and Type 4 PSEs operating over 4-pair are subject to"</li> <li>"type 3 and Type 4 PSEs operating over 4-pair are subject to"</li> <li>"type 3 and Type 4 PSEs operating over 4-pair are subject to"</li> <li>"type 3 and Type 4 PSEs operating over 4-pair are subject to"</li> <li>"type 3 and Type 4 PSEs operating over 4-pair are subject to"</li> <li>"type 3 and Type 4 PSEs operating over 4-pair are subject to"</li> <li>"type 3 and Type 4 PSEs operating over 4-pair are subject to"</li> <li>"type 3 and Type 4 PSEs operating over 4-pair are subject to"</li> <li>"type 3 and Type 4 PSEs operating over 4-pair are subject to"</li> <li>"type 3 and Type 4 PSEs operating over 4-pair are subject to"</li> <li>"type 3 and Type 4 PSEs operating over 4-pair are subject to"</li> <li>"type 3 and Type 4 PSEs operating over 4-pair are subject to"</li> <li>"type 1 and the pair type 1 Pair-to-pair resistance and current unbalance"</li> <li>"type 1 and type 4 maximum power is for type 4 maximum power is for type 4 maximum power is for type 4</li></ul>			15		Yseboodt, Lennart			
SuggestedRemedy       4-pair is not used in rest of document         Change "PSE PI Pair-to-Pair-to-pairair" to "PSE PI Pair-to-pair"       9         Proposed Response       Response Status       0         2/33       SC 33.2.7.4a       P72       L7       # 19         2/35       SC moment Type       E       Comment Status       X         Stutter in the section title.       "PSE PI Pair-to-Pair resistance and current unbalance".       PTZ       L40       # 140         Darshan, Yair       Microsemi       Comment Status       X         Stutter in the section title.       "PSE PI Pair-to-Pair resistance and current unbalance".       We need to complete the TBD in clause 33.2.7.4b. It adresses the test setup and test conditions for completion the infrastructure work needed for PSE PI P2PEVINE.         1/33       SC 33.2.7.4a       P72       L7       # 185         2/33       SC 33.2.7.4a       P72       L7       # 185         2/33.2.7.4a       Section heading has a duplicate "pair-to-pairair resistance and current unbalance"       Suggested/Remedy         33.2.7.4a       Sect 33.2.7.4a       P72 <td< td=""><td></td><td></td><td></td><td></td><td>51</td><td></td><td>audela at ta - M</td><td></td></td<>					51		audela at ta - M	
SuggestedRemedy       SuggestedRemedy         Change *PSE PI Pair-to-Pairair* to *PSE PI Pair-to-pair*       SuggestedRemedy         27 33       SC 33.2.7.4a       P72       L7       # 19         27 33       SC 33.2.7.4a       P72       L7       # 19         27 33       SC 33.2.7.4a       P72       L7       # 19         27 33       SC 33.2.7.4a       P72       L40       # 140         27 33       SC 33.2.7.4a       P72       L40       # 140         28 subtor in the section tile.       ************************************		-to-pairair" should be "PSE PI	Pair-to-pair"				subject to"	
Cli 13       SC 33.2.7.4a       P72       L7       # 19         Comment Type E       Comment Status X       Subtrain the section tile.       Proposed Response       Response Status O         Cli 33       SC 33.2.7.4a       P72       L7       # 19         Subtrain the section tile.       "PsE PI Pair-to-Pair-to-pairair resistance and current unbalance"       Comment Status X         SuggestedRemedy       "PSE PI Pair-to-Pair resistance and current unbalance."       Proposed Response       Response Status O         Cli 33       SC 33.2.7.4a       P72       L7       # 185         Valker, Dylan       Cisco       Cisco       So far we have supplied the requirements for Type 3 and Type 4 maximum power i.e. cle fine equation 3.4b for each operating class.       So far we have supplied the requirements for Type 4 and till include Channel and PD effective resistance to ensure that the PSE Linder test steup that will include Channel and PD effective resistance test steup that will include Channel and PD effective resistance test steup that will include Channel and PD effective resistance to ensure that the PSE PI Pair-to-Pair sesistance/Current Unbalance"         With:       "33.2.7.4a PSE PI Pair-to-Pair res	,				·			
Proposed Response       Response Status       O         Cl 33       SC 33.2.7.4a       P 72       L 7       # 19         Comment Type       E       Comment Status X       Proposed Response       Proposed Response       Proposed Response       Proposed Response       Proposed Response       Proposed Response       Comment Type       E       Comment Type       E       Comment Status X         Stutter in the section title.       "PSE PI Pair-to-Ppairatore pairair resistance and current unbalance."       We need to complete the TBD in clause 32.2.7.4b. It adresses the test setup and test conditions for completion the infrastructure work needed for PSE PI P2PRUNB.         Cl 33       SC 33.2.7.4a       P 72       L 7       # 185         Cl 33       SC 33.2.7.4a       P 72       L 7       # 185         Cl 33       SC 33.2.7.4a       P 72       L 7       # 185         Cl 33       SC 33.2.7.4a       P 72       L 7       # 185         Valker, Dylan       Cisco       Cisco       Comment Status X       We need to complete the requirements for type 3 and Type 4 maximum power is increased. we need to fead that E2EP2P lunb is function of power level and we care only for the worst case condition at maximum system operating power class fevel.       Due to th fead that E2EP2P lunb is function of power level and we care only for the worst case condition at maximum system to Type 3 and Type 4 maximum power is increased. we n	Change "PSE PI Pair	-to-Ppair-to-pairair" to "PSE PI	I Pair-to-pair"		,			
Cl 33       SC 33.2.7.4a       P72       L7       # 19         Cl 33       SC 33.2.7.4a       P11       Philips         Comment Type       E       Comment Status X       Microsemi         Stutter in the section title.       "SES PI Pair-to-Ppair-to-pairair resistance and current unbalance".       Microsemi         SuggestedRemedy       "PSE PI Pair to Pair resistance and current unbalance."       Microsemi         Proposed Response       Response Status O       Microsemi         Cl 33       SC 33.2.7.4a       P72       L7       # 185         Cl 33       SC 33.2.7.4a       P72       L7       # 185         Cl 33       SC 33.2.7.4a       P72       L7       # 185         Walker, Dylan       Cisco       Cisco       Cisco       Cisco       So far we have supplied the requirements for type 3 and Type 4 maximum power i.e. clede 6 and 8 and we need to complete it for class 5 and 7.       2.1 order to check for compliance, we need test setup that will include Channel and PD effective resistance to ensure that the PSE under the equirements. This part will be cover by Annex B which is a normative Annex.         SuggestedRemedy       "33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance"       SuggestedRemedy         "33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance"       SuggestedRemedy	Proposed Response	Response Status 0				Posponso Status		
Yseboodt, Lennart       Prilips         Comment Type       E       Comment Status X         Stutter in the section title.       "PSE PI Pair-to-pairair resistance and current unbalance"         SuggestedRemedy       "PSE PI Pair-to-Pair to Pair resistance and current unbalance."       Comment Type       TR       Comment Status X         Proposed Response       Response Status       O       We need to complete the TBD in clause 33.2.7.4b. It adresses the test setup and test conditions for completion the infrastructure work needed for PSE PI P2PRUNB.         Cl 33       SC 33.2.7.4a       P72       L7       # [185]         Cl 33       SC 33.2.7.4a       P72       L7       # [185]         Walker, Dylan       Cisco       Comment Status X       So addressed when load power is increased, we need to complete it for class 5 and 7.         SuggestedRemedy       Replace:       "33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance"       SuggestedRemedy         "33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance"       "With:       "33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance"       Comment and suggested remedy at pages 2-5 at darshan_06_0715.pdf for updated comment and suggested remedy. The title of this presentation/attachment is:         "33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance"       Proposed Response       Response Status O					r roposeu response			
Stebook       Lemment       Primps         Comment Type       E       Comment Status X         Stutter in the section title.       "PSE PI Pair-to-Ppair-to-pairair resistance and current unbalance."         Proposed Response       Response Status       O         C1 33       SC 33.2.7.4a       P 72       L 7       # 185         Comment Type       ER       Comment Status X       So a vertice of the equations account of the equations account of the equations account of the equation acc	C/ 33 SC 33.2.7.4	a P72	L <b>7</b>	# 19				
Comment Type       E       Comment Status       X         Stutter in the section title.       "PSE PI Pair-to-Pair-to-pairair resistance and current unbalance."       Comment Type       TR       Comment Type       T	rseboodt, Lennart	Philips					L <b>40</b>	# 140
Sutter in the section title.       "PSE PI Pair-to-Pair resistance and current unbalance"         SuggestedRemedy       "PSE PI Pair to Pair resistance and current unbalance."         Proposed Response       Response Status         O       1. In previous drafts we add the equations needed for PSE PI P2PLINB.         1. In previous drafts we add the equations needed for designing Rpair_max/min         relationship in order to guarantee compliance with system E2EP2PLINB/Runb objectives         (2) 33 SC 33.2.7.4a       P72       L 7       # 185         Walker, Dylan       Cisco       Cisco       Comment Status       X         33.2.7.4a section heading has a duplicate "pair-to-pair" randomly inserted.       SuggestedRemedy       So far we have supplied the requirements for Class 5 and 7.         "33.2.7.4a PSE PI Pair-to-Ppair-to-pair resistance and current unbalance"       SuggestedRemedy       SuggestedRemedy         "33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance"       SuggestedRemedy       Policy the details of the suggested remedy at pages 2-5 at darshan_06_0715.pdf for updated comment and suggested remedy.         "33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance"       Polow the details of the suggested remedy.       Polow the details of the suggested remedy.         "33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance"       Proposed Response       Response Status       O	Comment Type E	Comment Status X			,			
SuggestedRemedy         "PSE PI Pair to Pair resistance and current unbalance."         Proposed Response       Response Status         O         Cl 33       SC 33.2.7.4a         P 72       L 7         L 7       # 185         Malker, Dylan       Cisco         Comment Type       ER         Comment Status       X         33.2.7.4a section heading has a duplicate "pair-to-pair" randomly inserted.         SuggestedRemedy         "33.2.7.4a PSE PI Pair-to-Ppair-to-pair resistance and current unbalance"         "with:         "33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance"         Comment Type       ER         Replace:       "33.2.7.4a PSE PI Pair-to-Pai	Stutter in the section	title.			<i>,</i> ,			
uggested/Remedy         "PSE PI Pair to Pair resistance and current unbalance."         Proposed Response       Response Status         O         2/33       SC 33.2.7.4a         P72       L7       # 185         2/33       SC 33.2.7.4a         P72       L7       # 185         2/33       SC 33.2.7.4a       P72       L7       # 185         2/33.2.7.4a section heading has a duplicate "pair-to-pair" randomly inserted.       So far we have supplied the requirements for Type 3 and Type 4 maximum power i.e. date for a 8 and we need to complete it for class 5 and 7.         2.1. or det to check for compliance, we need test setup that will include Channel and PD effective resistance to ensure that the PSE under test meets the requirements. This part will be addressed expanding equation 33-4b to include requirements for class 5 and 7.         2.1. or det to check for compliance, we need test setup that will include Channel and PD effective resistance to ensure that the PSE under test meets the requirements. This part will be cover by Annex B which is a normative Annex.         SuggestedRemedy         "33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance"         With:         "33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance"         With:         "33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance"         With:         "33.2.7.4a PSE PI Pair-to-Pair resistance and	"PSE PI Pair-to-Ppair	-to-pairair resistance and curre	ent unbalance"					
<ul> <li>"PSE PI Pair to Pair resistance and current unbalance."</li> <li>"Porposed Response Response Status O</li> <li>Cl 33 SC 33.2.7.4a P72 L7 # 185</li> <li>Valker, Dylan Cisco</li> <li>Comment Type ER Comment Status X</li> <li>33.2.7.4a section heading has a duplicate "pair-to-pair" randomly inserted.</li> <li>SuggestedRemedy Replace:</li> <li>"33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance"</li> <li>With:</li> <li>"33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance"</li> <li>With:</li> <li>"33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance"</li> <li>With:</li> <li>"33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance"</li> <li>With:</li> <li>"33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance"</li> <li>With:</li> <li>"33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance"</li> <li>With:</li> <li>"33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance"</li> <li>With:</li> <li>"33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance"</li> <li>With:</li> <li>"APPE PI Pair-to-Pair resistance and current unbalance"</li> <li>Proposed Response Response Response Status O</li> </ul>	SuggestedRemedy							
Proposed Response       Response Status       0         (see equation 33-4b).       As we already know, E2EP2P_lunb is function of power level and we care only for the worst case condition at maximum system operating power class level.         (J 33 SC 33.2.7.4a       P 72 L 7 # 185         Walker, Dylan       Cisco         Comment Type       ER         Comment Type       ER         Comment Status       X         33.2.7.4a section heading has a duplicate "pair-to-pair" randomly inserted.         SuggestedRemedy       Replace:         "33.2.7.4a PSE PI Pair-to-Ppair resistance and current unbalance"       Vith:         "33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance"       Suggested Remedy         With:       "33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance"       Suggested Remedy         "33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance"       Follow the details of the suggested remedy at pages 2-5 at darshan_06_0715.pdf for updated comment and suggested remedy. The title of this presentation/attachment is:         "33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance"       Proposed Response       Response Status       O	•• •	esistance and current unbalar	ıce."					
As we aready know, E2EP2P_lunb is function of power level and we care only for the worst case condition at maximum system operating power class level. Due to the fact that E2EP2P_lunb is decreased when load power is increased, we need to define equation 33-4b for each operating class. So far we have supplied the requirements for Type 3 and Type 4 maximum power i.e. clase and we need to complete it for class 5 and 7 as well. This part will be addressed expanding equation 33-4b to include requirements for class 5 and 7. SuggestedRemedy Replace: "33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance" With: "33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance" Proposed Response Response Status O								
Cl 33       SC 33.2.7.4a       P 72       L 7       # 185         Walker, Dylan       Cisco       Cisco       Comment Type       ER       Comment Status X       So far we have supplied the requirements for Type 3 and Type 4 maximum power i.e. clase 3 and X as well. This part will be addressed expanding equation 33-4b to include requirements for class 5 and 7.       So far we have supplied the requirements for Class 5 and 7.       So far we have supplied the requirements for class 5 and 7.       So far we have supplied the requirements for class 5 and 7.       So far we have supplied the requirements for class 5 and 7.       So far we have supplied the requirements for class 5 and 7.       So far we have supplied the requirements for class 5 and 7.       So far we have supplied the requirements for class 5 and 7.       So far we have supplied the requirements for class 5 and 7.         SuggestedRemedy       Replace:       "33.2.7.4a PSE PI Pair-to-Ppair-to-pairair resistance and current unbalance"       With:       "SuggestedRemedy         "33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance"       With:       "ANNEX 33B [Normative] PSE PI Pair-to-Pair Resistance/Current Unbalance"         "33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance"       With:       "ANNEX 33B [Normative] PSE PI Pair-to-Pair Resistance/Current Unbalance"	Proposed Response	Response Status 0						
Cl 33       SC 33.2.7.4a       P72       L7       # 185         Walker, Dylan       Cisco       Cisco       Cisco       Cisco       Comment Type       ER       Comment Status X       So far we have supplied the requirements for Type 3 and Type 4 maximum power i.e. clas 6 and 8 and we need to complete it for class 5 and 7 as well. This part will be addressed expanding equation 33-4b to include requirements for class 5 and 7 as well. This part will be addressed expanding equation 33-4b to include requirements for class 5 and 7.         SuggestedRemedy       Name       Nam       Nam       Name </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
Walker, Dylan       Cisco         Comment Type       ER       Comment Status X         33.2.7.4a section heading has a duplicate "pair-to-pair" randomly inserted.       So far we have supplied the requirements for Class 5 and 7 as well. This part will be addressed expanding equation 33-4b to include requirements for class 5 and 7.         SuggestedRemedy       Replace:         "33.2.7.4a PSE PI Pair-to-Ppair-to-pairair resistance and current unbalance"       SuggestedRemedy         With:       "33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance"         "With:       "33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance"         "33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance"       Point title of this presentation/attachment is:         "ANNEX 33B [Normative] PSE PI Pair-to-Pair Resistance/Current Unbalance"       Proposed Response       Response Status       O				· · · · · · · · · · · · · · · · · · ·	Due to the fact that E		en load power is i	ncreased we need to
Comment Type       ER       Comment Status X         33.2.7.4a section heading has a duplicate "pair-to-pair" randomly inserted.       expanding equation 33-4b to include requirements for class 5 and 7.         SuggestedRemedy       Replace:       ultimate and the point of the state and current unbalance"         "33.2.7.4a PSE PI Pair-to-Ppair resistance and current unbalance"       SuggestedRemedy         With:       "33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance"       Follow the details of the suggested remedy.         "33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance"       Proposed Response       Response Status       O	CI 33 SC 33.2.7.4	a <i>P</i> 72	L7	# 185	define equation 33-4	o for each operating class.		
33.2.7.4a section heading has a duplicate "pair-to-pair" randomly inserted. SuggestedRemedy "33.2.7.4a PSE PI Pair-to-Ppair-to-pairair resistance and current unbalance" With: "33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance" "33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance" "34.2.7.4b PSE PI P			L7	# 185	So far we have suppl	ied the requirements for Type		ximum power i.e. cla
SuggestedRemedy       effective resistance to ensure that the PSE under test meets the requirements. This part will be cover by Annex B which is a normative Annex.         "33.2.7.4a PSE PI Pair-to-Ppair-to-pairair resistance and current unbalance"       SuggestedRemedy         "33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance"       Follow the details of the suggested remedy at pages 2-5 at darshan_06_0715.pdf for updated comment and suggested remedy.         "With:       "The title of this presentation/attachment is:         "33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance"       Proposed Response       Response Status       O	Walker, Dylan	Cisco	L7	# 185	So far we have suppl 6 and 8 and we need	ied the requirements for Type to complete it for class 5 and	7 as well. This pa	ximum power i.e. clas Int will be addressed b
SuggestedRemedy       will be cover by Annex B which is a normative Annex.         Replace:       SuggestedRemedy         "33.2.7.4a PSE PI Pair-to-Ppair-to-pairair resistance and current unbalance"       Follow the details of the suggested remedy at pages 2-5 at darshan_06_0715.pdf for updated comment and suggested remedy.         With:       The title of this presentation/attachment is:         "33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance"       Proposed Response         Response Status       O	Nalker, Dylan Comment Type ER	Cisco Comment Status X			So far we have suppl 6 and 8 and we need expanding equation 3	ied the requirements for Type to complete it for class 5 and 3-4b to include requirements f	7 as well. This pa or class 5 and 7.	ximum power i.e. clas art will be addressed b
"33.2.7.4a PSE PI Pair-to-Ppair-to-pairair resistance and current unbalance"       Follow the details of the suggested remedy at pages 2-5 at darshan_06_0715.pdf for updated comment and suggested remedy.         "With:       The title of this presentation/attachment is:         "33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance"       Proposed Response       Response Status       O	Walker, Dylan Comment Type ER	Cisco Comment Status X			So far we have suppl 6 and 8 and we need expanding equation 3 2.In order to check fo	ied the requirements for Type to complete it for class 5 and 3-4b to include requirements f r compliance, we need test se	7 as well. This pa for class 5 and 7. tup that will inclue	ximum power i.e. cla irt will be addressed l de Channel and PD
With:       "33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance"       updated comment and suggested remedy. The title of this presentation/attachment is: "ANNEX 33B [Normative] PSE PI Pair-to-Pair Resistance/Current Unbalance"         "33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance"       Proposed Response       Response Status       O	Walker, Dylan Comment Type ER 33.2.7.4a section hea	Cisco Comment Status X			So far we have suppl 6 and 8 and we need expanding equation 3 2.In order to check for effective resistance to	ied the requirements for Type to complete it for class 5 and 3-4b to include requirements f r compliance, we need test se o ensure that the PSE under te	7 as well. This pa or class 5 and 7. tup that will inclucest meets the requ	ximum power i.e. cla irt will be addressed l de Channel and PD
With:       updated comment and suggested remedy.         With:       The title of this presentation/attachment is:         "ANNEX 33B [Normative] PSE PI Pair-to-Pair Resistance/Current Unbalance"         "33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance"       Proposed Response       Response Status       O	Walker, Dylan Comment Type ER 33.2.7.4a section hea SuggestedRemedy	Cisco Comment Status X			So far we have suppl 6 and 8 and we need expanding equation 3 2. In order to check for effective resistance to will be cover by Anne	ied the requirements for Type to complete it for class 5 and 3-4b to include requirements f r compliance, we need test se o ensure that the PSE under te	7 as well. This pa or class 5 and 7. tup that will inclucest meets the requ	ximum power i.e. cla irt will be addressed de Channel and PD
"ANNEX 33B [Normative] PSE PI Pair-to-Pair Resistance/Current Unbalance" "33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance" Proposed Response Response Status <b>O</b>	Walker, Dylan Comment Type ER 33.2.7.4a section hea SuggestedRemedy Replace:	Cisco Comment Status X ading has a duplicate "pair-to-p	pair" randomly ins	serted.	So far we have suppl 6 and 8 and we need expanding equation 3 2.In order to check for effective resistance to will be cover by Anne SuggestedRemedy	ied the requirements for Type to complete it for class 5 and 3-4b to include requirements f r compliance, we need test se b ensure that the PSE under te x B which is a normative Anne	7 as well. This pa for class 5 and 7. tup that will inclucest meets the requex.	ximum power i.e. cla Irt will be addressed de Channel and PD uirements. This part
"33.2.7.4a PSE PI Pair-to-Pair resistance and current unbalance" Proposed Response Response Status O	Walker, Dylan Comment Type ER 33.2.7.4a section hea SuggestedRemedy Replace:	Cisco Comment Status X ading has a duplicate "pair-to-p	pair" randomly ins	serted.	So far we have suppl 6 and 8 and we need expanding equation 3 2. In order to check for effective resistance to will be cover by Anne SuggestedRemedy Follow the details of to updated comment ar	ied the requirements for Type to complete it for class 5 and 3-4b to include requirements f r compliance, we need test se b ensure that the PSE under te x B which is a normative Anne he suggested remedy at page d suggested remedy.	7 as well. This pa for class 5 and 7. tup that will inclucest meets the requex.	ximum power i.e. cla Irt will be addressed l de Channel and PD uirements. This part
	Valker, Dylan Comment Type ER 33.2.7.4a section hea SuggestedRemedy Replace: "33.2.7.4a PSE PI Pa	Cisco Comment Status X ading has a duplicate "pair-to-p	pair" randomly ins	serted.	So far we have suppl 6 and 8 and we need expanding equation 3 2. In order to check for effective resistance to will be cover by Anne SuggestedRemedy Follow the details of to updated comment ar The title of this prese	ied the requirements for Type to complete it for class 5 and 3-4b to include requirements f r compliance, we need test se b ensure that the PSE under te x B which is a normative Anne he suggested remedy at page d suggested remedy. ntation/attachment is:	7 as well. This pa for class 5 and 7. tup that will inclue st meets the requist. x. s 2-5 at darshan_	ximum power i.e. cla Int will be addressed de Channel and PD uirements. This part _06_0715.pdf for
	Walker, Dylan Comment Type ER 33.2.7.4a section hea SuggestedRemedy Replace: "33.2.7.4a PSE PI Pa With:	Cisco <i>Comment Status</i> X ading has a duplicate "pair-to-p air-to-Ppair-to-pairair resistance	pair" randomly ins	serted.	So far we have suppl 6 and 8 and we need expanding equation 3 2. In order to check for effective resistance to will be cover by Anne SuggestedRemedy Follow the details of to updated comment an The title of this prese "ANNEX 33B [Normal	ied the requirements for Type to complete it for class 5 and 3-4b to include requirements f r compliance, we need test se b ensure that the PSE under te x B which is a normative Anne he suggested remedy at page d suggested remedy. ntation/attachment is: tive] PSE PI Pair-to-Pair Resis	7 as well. This pa for class 5 and 7. tup that will inclue st meets the requist. x. s 2-5 at darshan_	ximum power i.e. cla Int will be addressed I de Channel and PD uirements. This part _06_0715.pdf for

C/ 33 SC 33.2.7.4b

Yseboodt, L	SC 33.2.7.5 Lennart	P <b>72</b> Philips	L <b>48</b>	# 87	C/ <b>33</b> Darshan, Y	SC <b>33.2.7.5</b> Yair		<b>73</b> crosemi	L 15	# 136
Comment 7		Comment Status X	n the DSE's tran	poition to the	Comment		Comment State		A offer TPD time	
"POWER_UP mode occurs on each pair set between the PSE's transition to the POWER_UP state on that pair set" transition to the POWER_UP state is not correct SuggestedRemedy 'transision to the POWER_ON state' Proposed Response Response Status <b>O</b>					It is usefull to allow higher Inrush current than 450mA after TBD time from POWER UP start for the following reasons: a)Reach faster startup with lower probability for startup oscilations b)Handle different load behaviour during startup that is time dependent e.g1: Adress the issue of some PDs that turn ON full power during POWERUP. e.g.2: Supports PDs with high input capacitance to reach steady state faster. I doesnt add any burden on PSE as PSE move from Inrush limits to ILIM any way. See darshan_02_0715.pdf					ent e.g1: Adress the : Supports PDs with
					Suggested	•	ofter line 26			
C/ 33	SC 33.2.7.5	P <b>72</b>	L <b>50</b>	# 104		e following text				
Jones, Cha	ad	Cisco								exceed the per pair set UP has started and
Comment T	Туре Т	Comment Status X					2P maximum as sp			
recomm legacy The res figure 3 damagi current: PD. The rec 4 PSE's. Howeve a pair s	mendation again power-up can e sult of an early e 33-13, and inrus ing an existing T is during PD Inru commendations s in the draft. Th For reference, t er, for practical is set persist for the ly ascertain the	7.5 of the existing standard. st using LEGACY POWER_L nd POWER_UP mode prior to xit of POWER_UP mode is th n current could exceed expect ype 1 or Type 2 PD. Type 3 ush in this scenario, increasin used in the existing standard the suggested remedy makes he existing text is shown below mplementations, it is recomm the complete duration of TInrus conclusion of a PD's inrush b	JP in section 32 o the end of PD hat current is not ted values for a and Type 4 PSE g the probability have been appl it a requirement w: hended that the h-2P, as the PS	2.4.4. This is because Inrush. t limited to the levels in PD, potentially 's could deliver higher of damage to a legacy ied to Type 3 and Type for Type 3 and Type 4 POWER_UP mode on	It is us start fo a)Red b)Rea c) Har Suggesteo Add th	Type <b>TR</b> OVER for Yair sefull to allow hig or the following r ucing dynamic s ch faster startup idle different loa <i>IRemedy</i> e following text	Cis Comment State Darshan: gher Inrush current easons: tress on the MOSF with lower probabi d behaviour during after line 36.	than 450m ET during lity for star startup tha	POWER UP and tup oscilations at is time depend	lent.
Change	e the text to: er, for practical i Type 2 PSE's pe	mplementations, it is recomn rsist for the complete duratio	n of TInrush-2P,	as the PSE may not	PSE ir	nrush template in ot excedd ILIM-	current sourced by n Figure 33–13 only 2P maximum as sp <i>Response Statu</i>	y TBD mse becified by	c after POWER	exceed the per pair set UP has started and n 9.
be able		ertain the conclusion of a PD POWER_UP mode until the T								

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

C/ 33 SC 33.2.7.5 Page 36 of 60 7/7/2015 11:33:40 AM

	P 74	L 6	# 07	C/33 SC 33.2.7.7 P74 L16 # 118
/ 33 3C 33.2.7.0 Yseboodt, Lennart	P 74 Philips	L 0	# 27	C/ 33         SC 33.2.7.7         P 74         L 16         # 118           Bullock, Chris         Cisco Systems
TCUT-2P is measure SuggestedRemedy " PSE may remove	Comment Status X	east 1 second wid	dth."	Comment TypeEComment StatusXPair set is missing an 'r'.SuggestedRemedy Change "a pai set" to "a pair set"Proposed ResponseResponse StatusO
Proposed Response	Response Status 0			C/ 33 SC 33.2.7.7 P 74 L 16 # 186 Walker, Dylan Cisco
C/ <b>33</b> SC <b>33.2.7.7</b> Dwelley, David	P <b>74</b> Linear Techn	L <b>15</b> ology	# 233	Comment Type ER Comment Status X Misspelling.
Comment Type <b>T</b>	Comment Status X			SuggestedRemedy
"A PSE may remove	power from the PI if the PI cur	rrent meets or ex	ceeds"	Replace:
I believe this should b SuggestedRemedy	power from the PI if the PI cur le per pair set, not sum of all p ay remove power from the PI	pairsets (which is	what PI implies).	
I believe this should b SuggestedRemedy Change to: "A PSE m exceeds"	e per pair set, not sum of all p	pairsets (which is	what PI implies).	Replace: "Power shall be removed from a pai set of a PSE before the pair set current exceed "PSE upperbound template" in Figure 33–14."
I believe this should b SuggestedRemedy Change to: "A PSE m exceeds" Proposed Response	e per pair set, not sum of all p ay remove power from the PI <i>Response Status</i> <b>O</b>	bairsets (which is if the current on <i>L</i> 16	what PI implies).	Replace: "Power shall be removed from a pai set of a PSE before the pair set current exceed "PSE upperbound template" in Figure 33–14." With: "Power shall be removed from a pairset of a PSE before the pair set current exceed
I believe this should b SuggestedRemedy Change to: "A PSE m exceeds" Proposed Response	e per pair set, not sum of all p ay remove power from the PI <i>Response Status</i> <b>O</b>	bairsets (which is if the current on <i>L</i> 16	what PI implies). a pair set meets or	Replace: "Power shall be removed from a pai set of a PSE before the pair set current exceed "PSE upperbound template" in Figure 33–14." With: "Power shall be removed from a pairset of a PSE before the pair set current exceed "PSE upperbound template" in Figure 33–14."
I believe this should b SuggestedRemedy Change to: "A PSE m exceeds" Proposed Response Cl 33 SC 33.2.7.7 Schindler, Fred Comment Type ER Typo "pai".	e per pair set, not sum of all p ay remove power from the PI <i>Response Status</i> <b>O</b> <i>P</i> <b>74</b> Seen Simply	bairsets (which is if the current on <i>L</i> 16	what PI implies). a pair set meets or	Replace:         "Power shall be removed from a pai set of a PSE before the pair set current exceed"         "PSE upperbound template" in Figure 33–14."         With:         "Power shall be removed from a pairset of a PSE before the pair set current exceed"         "PSE upperbound template" in Figure 33–14."         Proposed Response       Response Status         Cl 33       SC 33.2.7.7       P74       L 16       # 28
I believe this should b SuggestedRemedy Change to: "A PSE m exceeds" Proposed Response CI 33 SC 33.2.7.7 Schindler, Fred Comment Type ER Typo "pai". SuggestedRemedy	e per pair set, not sum of all p ay remove power from the PI <i>Response Status</i> <b>O</b> <i>P</i> <b>74</b> Seen Simply	bairsets (which is if the current on <i>L</i> 16	what PI implies). a pair set meets or	Replace:         "Power shall be removed from a pai set of a PSE before the pair set current exceed         "PSE upperbound template" in Figure 33–14."         With:         "Power shall be removed from a pairset of a PSE before the pair set current exceed         "PSE upperbound template" in Figure 33–14."         Proposed Response       Response Status         C/ 33       SC 33.2.7.7       P74       L 16       # 28         Yseboodt, Lennart       Philips         Comment Type       E       Comment Status       X

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

C/ 33 SC 33.2.7.7 Page 37 of 60 7/7/2015 11:33:40 AM

CI 33 SC 33.2.7.7 P74 L 17 # 240	Cl 33 SC 33.2.7.7 P75 L 46 # 30
Beia, Christian STMicroelectronics	Yseboodt, Lennart Philips
Comment Type TR Comment Status X	Comment Type E Comment Status X
<ul> <li>When connected to an overloaded single signature PD, it is recommended that Type 3,4</li> <li>PSEs remove power from both pair sets before the current exceeds PSE upperbund template on one pair set.</li> <li>This avoids increasing the turn-off time of the overloaded PD, with the additional time spent with the whole 4-pair current flowing into a single pair set.</li> <li>Note that is not required that the 2 pair sets turn off together if the sum of the two turn-off times don't exceed Tcut-2P max (or the PSE upperbound template).</li> </ul>	<ul> <li>"A PSE in the POWER_ON state may remove power from a pair set without regard to T li when the pair set voltage no longer meets the V port_PSE-2P specification."</li> <li>Tlim is lowercase letters, should be uppercase subscript.</li> <li>SuggestedRemedy         T_LIM     </li> </ul>
See presentation.	Proposed Response Response Status O
SuggestedRemedy	
Add the sentence: When connected to a single signature PD, a Type 3,4 PSE shall remove power from both pair sets before the current exceeds the "PSE upperbound template" on either pair set.	C/ 33         SC 33.2.7.8         P 75         L 54         # 31           Yseboodt, Lennart         Philips
Proposed Response Response Status O Cl 33 SC 33.2.7.7 P 75 L 1 # 29 Yseboodt, Lennart Philips	Remove space at end of scentence. Original text: "The specification for TOff in Table 33-11 shall apply to the discharge time from VPort_PSE-2P to VOff of a pair set with a test resistor of 320 k attached to that pair set . In addition, it is recommended that the"
	SuggestedRemedy
Comment Type E Comment Status X The definitions of I_PSEUT-2P and I_PSELT-2P make use of variables that do not exist.	"The specification for TOff in Table 33-11 shall apply to the discharge time from VPort_PSE-2P to VOff of a pair set with a test resistor of 320 k attached to that pair set. I addition, it is recommended that the"
SuggestedRemedy	Proposed Response Response Status O
Change Tcutmin-2P to T_CUT-2P min Change Tcutmax-2P to T_CUT-2P max Change Ilimmin-2P to I_LIM-2P min	CI 33 SC 33.2.7.8 P76 L3 # 234
Proposed Response Response Status O	Dwelley, David Linear Technology
	Comment Type <b>T</b> Comment Status <b>X</b> "as long as the average voltage across the pair set is VOff."
	Voff is a range.
	SuggestedRemedy
	"as long as the average voltage across the pair set is the range of VOff."
	Alternate fix: "as long as the average voltage across the pair set is below VOff_max."

Proposed Response

C/ 33 SC 33.2.7.8

Response Status 0

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	.9.1.1 P 77	L 35	# 242	C/ 33	SC 33.2.9.1.	<b>2</b> PT	78 L	23	# 267
Beia, Christian	STMicroele	ctronics		Zimmerm	an, George	CME	Consulting, Inc.	-	
Comment Type TR	Comment Status X			Comment	Туре Е	Comment Status	; <b>X</b>		
requirements are p	a PD to swith between a conditi present, to a condition where th a froze up PD to reboot, it may	nose requirements a	are absent. Since there			e power from both pa IMPDO on either pai		MPS has be	en absent for
absence of a DC N	MPS component.		-	additi	onal restatement	of permission to rem	nove power from	ı both pair se	ets.
In order to preserv only.	ve legacy behavior, the new req	uirement is for Typ	e3 and Type4 PSE	Suggeste	dRemedy				
See also the releva	ant presentation.			delete	e sentence.				
				Proposed	Response	Response Status	0		
SuggestedRemedy									
Change the senter The PSE shall more	nce: initor either the DC MPS compo	onent, the AC MPS	component, or both.	C/ 33	SC 33.2.9.1.	<b>2</b> P 7	78 L	23	# 187
				Walker, D	ylan	Cisc	0		
With: Type1 and Type2	PSEs shall monitor either the I	C MPS componen	it, the AC MPS	Comment	Type <b>TR</b>	Comment Status	3 <b>X</b>		
component, or bot	th. PSEs shall monitor the DC MP				ollowing sentence ge 66, line 9.	e is redundant and sł	nould be remove	d according	to the Editor's No
	Response Status <b>O</b>					e power from both pa IMPDO on either pai		MPS has be	en absent for
Proposed Response				Cummente	dRemedy				
Proposed Response				Suggeste	arterneay				
· ·		/ 22	# 211		e the sentence.				
Proposed Response Cl 33 SC 33.2. Dwelley, David	.9.1.2 P 78 Linear Tecl	L 23 hnology	# 211	Delete		Response Status	0		
C/ 33 SC 33.2. Dwelley, David Comment Type E	.9.1.2 P 78 Linear Tech Comment Status X	hnology		Delete Proposed	e the sentence. Response				
Cl <b>33</b> SC <b>33.2.</b> Dwelley, David Comment Type <b>E</b> "The PSE may ren	.9.1.2 P 78 Linear Tecl	hnology s if the DC MPS has		Delete	e the sentence. Response SC 33.2.9.1.		<b>78</b> L	.32	# [188
Cl <b>33</b> SC <b>33.2.</b> Dwelley, David Comment Type <b>E</b> "The PSE may ren duration greater th	.9.1.2 P 78 Linear Tech <i>Comment Status</i> X nove power from both pair sets	hnology s if the DC MPS has		Delete Proposed	e the sentence. <i>Response</i> SC <b>33.2.9.1.</b> Iylan	2 PT	<b>78</b> L o	32	# 188
Cl 33 SC 33.2. Dwelley, David Comment Type E "The PSE may ren duration greater th Redundant text in	.9.1.2 P 78 Linear Tech <i>Comment Status</i> X move power from both pair sets nan TMPDO on either pair set."	hnology s if the DC MPS has		Cl 33 Walker, D	e the sentence. <i>Response</i> SC <b>33.2.9.1.</b> lylan <i>Type</i> <b>ER</b>	2 PT Cisc	78 L o s X	32	# <u>188</u>
Cl 33 SC 33.2. Dwelley, David Comment Type E "The PSE may ren duration greater th Redundant text in	.9.1.2 P78 Linear Tech Comment Status X move power from both pair sets han TMPDO on either pair set." light of page 66 line 7.	hnology s if the DC MPS has		Cl 33 Walker, D	e the sentence. <i>Response</i> SC 33.2.9.1. lylan <i>Type</i> ER 33-12 pertains to	2 PT Cisco Comment Status	78 L o s X	32	# [188
Cl 33 SC 33.2. Dwelley, David Comment Type E "The PSE may ren duration greater th Redundant text in SuggestedRemedy	.9.1.2 P78 Linear Tech Comment Status X move power from both pair sets han TMPDO on either pair set." light of page 66 line 7.	hnology s if the DC MPS has		Delete Proposed Cl 33 Walker, D Comment Table Suggeste	e the sentence. <i>Response</i> SC <b>33.2.9.1.</b> ylan <i>Type</i> <b>ER</b> 33-12 pertains to <i>dRemedy</i>	2 PT Cisco Comment Status	78 L o s X MPS.	32	# 188

C/ 33 SC 33.2.9.1.2

33 SC 33.3.1	P <b>80</b>	L <b>47</b>	# 189	CI 33 SC	33.3.1	P 80	L <b>47</b>	# 145
Valker, Dylan	Cisco			Schindler, Fred		Seen Simply		
Comment Type TR	Comment Status X			Comment Type	TR	Comment Status X		
The following sentence i	is ambiguous: I any voltage from 0 V to 57	V at the PI indefi	nitely without	New PD Typ The PD sha permanent c	ll withstand	ed to accept up to 57V on each d any voltage from 0 V to 57 V	h pair set. Fix te at the PI indefin	ext, nitely without
permanent damage."				SuggestedReme	ədy			
uggestedRemedy Presentation forthcomin roposed Response	ng. Response Status <b>O</b>			set indefinite	Type 2 PD ely without	with, s shall withstand any voltage f permanent damage. Type 3 a V on both pair sets indefinitely	and Type 4 PDs	shall withstand any
				Proposed Respo		Response Status <b>O</b>	, ,	
33 SC 33.3.1	P 80	L <b>47</b>	# 5					
nes, Chad	Cisco			C/ 33 SC	33.3.2	P 81	L 12	# 34
						•••		
mment Type <b>T</b>	Comment Status X			Yseboodt, Lenna	art	Philips		
	Comment Status X 1274 on behalf of George Z	Zimmerman, CME	Consulting/LTC	,		·		
Maintenance Request #	1274 on behalf of George Z		-	Comment Type	Е	Comment Status X		
Maintenance Request # Text in the existing stand	1274 on behalf of George Z	nconsistent with te	erminations and usage	Comment Type 4-pair capab	E ble is not c	Comment Status X		
Maintenance Request # Text in the existing stan commonly found in Ethe withstand application of	1274 on behalf of George Z dard is ambiguous and is in ernet equipment. The intent common-mode PoE voltag	nconsistent with te is to require PDs e. Application of 5	erminations and usage to be able to 57V DC voltages in	Comment Type 4-pair capab SuggestedReme	E ble is not co edy	Comment Status X		
Maintenance Request # Text in the existing stan- commonly found in Ethe withstand application of across the pins correspo	1274 on behalf of George Z dard is ambiguous and is in ernet equipment. The intent common-mode PoE voltag onding to the two pairs twist	nconsistent with te is to require PDs e. Application of 5 ted differentially to	erminations and usage to be able to 57V DC voltages in 5 form a balanced pair	Comment Type 4-pair capab SuggestedReme change to 'fo	E ble is not co edy pur-pair'	Comment Status X onsistent		
Maintenance Request # Text in the existing stan- commonly found in Ethe withstand application of across the pins correspo of the link segment woul	1274 on behalf of George Z dard is ambiguous and is in ernet equipment. The intent common-mode PoE voltag	nconsistent with te is to require PDs e. Application of 5 ted differentially to the transformer w	erminations and usage to be able to 57V DC voltages in 5 form a balanced pair	Comment Type 4-pair capab SuggestedReme	E ble is not co edy pur-pair'	Comment Status X		
Maintenance Request # Text in the existing stand commonly found in Ethe withstand application of across the pins correspond of the link segment woul found in BASE-T Ethern	1274 on behalf of George Z dard is ambiguous and is in ernet equipment. The intent common-mode PoE voltag onding to the two pairs twist ild run a DC current across	nconsistent with te is to require PDs e. Application of 5 ted differentially to the transformer w	erminations and usage to be able to 57V DC voltages in 5 form a balanced pair	Comment Type 4-pair capab SuggestedReme change to 'fo	E ble is not co edy pur-pair'	Comment Status X onsistent		
Maintenance Request # Text in the existing stand commonly found in Ethe withstand application of across the pins correspond of the link segment woul found in BASE-T Ethern ggestedRemedy Change: The PD shall w	1274 on behalf of George Z dard is ambiguous and is in ernet equipment. The intent common-mode PoE voltag onding to the two pairs twist ild run a DC current across	nconsistent with te is to require PDs e. Application of 5 ted differentially to the transformer w m out.	erminations and usage to be able to 57V DC voltages in 5 form a balanced pair indings commonly	Comment Type 4-pair capab SuggestedReme change to 'fo Proposed Respo	E ble is not co edy pur-pair'	Comment Status X onsistent	L <b>43</b>	# 35
Maintenance Request # Text in the existing stan- commonly found in Ethe withstand application of across the pins correspo of the link segment woul found in BASE-T Ethern ggestedRemedy Change: The PD shall w permanent damage.	t1274 on behalf of George Z dard is ambiguous and is in ernet equipment. The intent common-mode PoE voltag onding to the two pairs twist ld run a DC current across the equipment and burn the vithstand any voltage from 0	nconsistent with te is to require PDs e. Application of 5 ted differentially to the transformer w m out.	erminations and usage to be able to 57V DC voltages in 5 form a balanced pair indings commonly PI indefinitely without	Comment Type 4-pair capab SuggestedReme change to 'fo Proposed Respo	E ble is not co edy pur-pair' ponse	Comment Status X onsistent Response Status O	L 43	# 35
Maintenance Request # Text in the existing stan- commonly found in Ethe withstand application of across the pins correspo- of the link segment woul found in BASE-T Ethern ggestedRemedy Change: The PD shall w permanent damage. To: The PD shall withsta	1274 on behalf of George Z dard is ambiguous and is in ernet equipment. The intent common-mode PoE voltag onding to the two pairs twist Id run a DC current across het equipment and burn the	nconsistent with te is to require PDs e. Application of 5 ted differentially to the transformer w m out. D V to 57 V at the tage from 0 V to 5	erminations and usage to be able to 57V DC voltages in 5 form a balanced pair indings commonly PI indefinitely without 57 V applied to any two	Comment Type 4-pair capab SuggestedReme change to 'fo Proposed Respondent CI 33 SC	E ble is not co edy pur-pair' ponse	Comment Status X onsistent Response Status O P 81	L <b>43</b>	# 35
Maintenance Request # Text in the existing stan- commonly found in Ethe withstand application of across the pins correspo- of the link segment woul found in BASE-T Ethern aggestedRemedy Change: The PD shall w permanent damage. To: The PD shall withsta sets of two pins at the P	t1274 on behalf of George Z dard is ambiguous and is in ernet equipment. The intent common-mode PoE voltag onding to the two pairs twist ild run a DC current across het equipment and burn the vithstand any voltage from 0 and any common-mode volt	aconsistent with te is to require PDs e. Application of 5 ted differentially to the transformer w m out. D V to 57 V at the tage from 0 V to 5 nent damage. The	erminations and usage to be able to 57V DC voltages in 5 form a balanced pair indings commonly PI indefinitely without 57 V applied to any two e two pins in each set	Comment Type 4-pair capab SuggestedReme change to 'fo Proposed Respo CI 33 SC Yseboodt, Lenna Comment Type	E ble is not co edy our-pair' onse 33.3.2 art E	Comment Status X onsistent Response Status O P 81 Philips		
Maintenance Request # Text in the existing stand commonly found in Ethe withstand application of across the pins correspond of the link segment woul found in BASE-T Ethern ggestedRemedy Change: The PD shall with permanent damage. To: The PD shall withstat sets of two pins at the P shall correspond to the b	t1274 on behalf of George Z dard is ambiguous and is in ernet equipment. The intent common-mode PoE voltag onding to the two pairs twist ild run a DC current across het equipment and burn the vithstand any voltage from 0 and any common-mode volt Pl indefinitely without perma	aconsistent with te is to require PDs e. Application of 5 ted differentially to the transformer w m out. D V to 57 V at the tage from 0 V to 5 nent damage. The	erminations and usage to be able to 57V DC voltages in 5 form a balanced pair indings commonly PI indefinitely without 57 V applied to any two e two pins in each set	Comment Type 4-pair capab SuggestedReme change to 'fo Proposed Respo C/ 33 SC Yseboodt, Lenna Comment Type "Type 3 PDs class signate Because this	E ble is not co edy our-pair' onse 33.3.2 art E s advertise ure of 7 or s is in the p	Comment Status X onsistent Response Status O P 81 Philips Comment Status X a class signature of 4, 5, or 6, 8." paragraph that describes Class	, while Type 4 P	PDs advertise a
Maintenance Request # Text in the existing stan- commonly found in Ethe withstand application of across the pins correspo- of the link segment woul found in BASE-T Ethern uggestedRemedy Change: The PD shall with permanent damage. To: The PD shall withsta sets of two pins at the P shall correspond to the b	t1274 on behalf of George Z dard is ambiguous and is in ernet equipment. The intent common-mode PoE voltag onding to the two pairs twist ld run a DC current across net equipment and burn the vithstand any voltage from ( and any common-mode volt indefinitely without perma balanced twisted wire pairs	aconsistent with te is to require PDs e. Application of 5 ted differentially to the transformer w m out. D V to 57 V at the tage from 0 V to 5 nent damage. The	erminations and usage to be able to 57V DC voltages in 5 form a balanced pair indings commonly PI indefinitely without 57 V applied to any two e two pins in each set	Comment Type 4-pair capab SuggestedReme change to 'fo Proposed Respo CI 33 SC Yseboodt, Lenna Comment Type "Type 3 PDs class signat Because this The sentence	E ble is not co edy our-pair' onse C 33.3.2 art E s advertise ure of 7 or s is in the p ce alone ho	Comment Status X onsistent Response Status O P 81 Philips Comment Status X a class signature of 4, 5, or 6, 8."	, while Type 4 P	PDs advertise a
Maintenance Request # Text in the existing stand commonly found in Ethe withstand application of across the pins correspond of the link segment woul found in BASE-T Ethern uggestedRemedy Change: The PD shall w permanent damage. To: The PD shall withstat sets of two pins at the P	t1274 on behalf of George Z dard is ambiguous and is in ernet equipment. The intent common-mode PoE voltag onding to the two pairs twist ld run a DC current across net equipment and burn the vithstand any voltage from ( and any common-mode volt indefinitely without perma balanced twisted wire pairs	aconsistent with te is to require PDs e. Application of 5 ted differentially to the transformer w m out. D V to 57 V at the tage from 0 V to 5 nent damage. The	erminations and usage to be able to 57V DC voltages in 5 form a balanced pair indings commonly PI indefinitely without 57 V applied to any two e two pins in each set	Comment Type 4-pair capab SuggestedReme change to 'fo Proposed Respo Cl 33 SC Yseboodt, Lenna Comment Type "Type 3 PDs class signatt Because this The sentence SuggestedReme	E ble is not co edy our-pair' onse C 33.3.2 art E s advertise ure of 7 or s is in the p ce alone ho edy 3 PDs adv	Comment Status X onsistent Response Status O P 81 Philips Comment Status X a class signature of 4, 5, or 6, 8." paragraph that describes Class owever is incorrect.	, while Type 4 P s4+ PDs the inte	PDs advertise a ent is clear.

CI 33 SC	33.3.2	P 81	L <b>43</b>	# 146	C/ 33 SC	33.3.4	P 86	L <b>54</b>	# 272
Schindler, Fred		Seen Simply			Darshan, Yair		Microsemi		
Comment Type	TR	Comment Status X			Comment Type	TR	Comment Status X		
Type 3 and 1 greater imple Data Link La	Type 4 PDs ement both yer classific	support all Type 3 variants. operating with a maximum p Multiple-Event Physical Laye cation (see 33.6). Type 3 PD rertise a class signature of 7	oower draw corr er classification s advertise a cla	responding to Class 4 or (see 33.3.5.2) and	detection si from which In order to r	gnature on it is not dra naintain int	pe 2 PD becomes powered the set of pairs awing power" teroperability with all PSEs	and PDs in terms	of backfeed voltage
SuggestedReme	dy						gnature on the un powered be applied for all PDS.	I pairs specifically	in SS PD, this
greater imple Data Link La 0 through 6,	Type 4 PDs ement both yer classific while Type	operating with a maximum p Multiple-Event Physical Laye ation (see 33.6). Type 3 PD 4 PDs advertise a class sign	er classification s advertise a cla	(see 33.3.5.2) and ass signature of	SuggestedRem Change froi When a Typ	edy n: pe 1 or Typ	e 2 PD becomes powered the set of pairs	via the PI, it shall	present a non-valid
Proposed Respo	nse	Response Status <b>O</b>			from which				
CI 33 SC	33.3.2.6.2	P 64	L 24	# 245	To When a Sin	ale Sianati	ure PD Type 1 or Type 2 P	D or Type 3 or Ty	ne 4 hecomes nowere
	33.3.2.6.2	P 64 STMicroelectro	L <b>24</b> onics	# 245	When a Sin via the PI, it	shall pres	ure PD Type 1 or Type 2 Pl ent a non-valid detection si		
Cl 33 SC Beia, Christian Comment Type	33.3.2.6.2 TR	-		# 245	When a Sin via the PI, it not drawing	shall prese power"	ent a non-valid detection si		
Beia, Christian Comment Type Table 33-10 The long fing Draft0.4, so t	TR ger classifica the TBDs ca	STMicroelectro	onics		When a Sin via the PI, it	shall prese power"			
Beia, Christian Comment Type Table 33-10 The long fing Draft0.4, so t SuggestedReme	TR ger classifica the TBDs ca dy	STMicroelectro Comment Status X ation timings (85ms min and an be removed	onics d 100ms max) h	nave not changed since	When a Sin via the PI, it not drawing	shall prese power"	ent a non-valid detection si		
Beia, Christian Comment Type Table 33-10 The long fing Draft0.4, so f SuggestedReme remove TBD	TR ger classifica the TBDs ca dy from Table	STMicroelectro Comment Status X ation timings ( 85ms min and	onics d 100ms max) h	nave not changed since	When a Sin via the PI, it not drawing	shall prese power"	ent a non-valid detection si		
Beia, Christian Comment Type Table 33-10 The long fing Draft0.4, so t SuggestedReme remove TBD Proposed Respo	TR ger classifica the TBDs ca dy from Table nse 33.3.3.5	STMicroelectro Comment Status X ation timings ( 85ms min and an be removed 33-10, item 12, column Min	onics d 100ms max) h	nave not changed since	When a Sin via the PI, it not drawing	shall prese power"	ent a non-valid detection si		
Beia, Christian Comment Type Table 33-10 The long fing Draft0.4, so t SuggestedReme remove TBD Proposed Respo	TR ger classifica the TBDs ca dy from Table nse 33.3.3.5 art E	STMicroelectro Comment Status X ation timings ( 85ms min and an be removed 33-10, item 12, column Min Response Status <b>0</b> P 85 Philips Comment Status X	onics d 100ms max) h and column M	have not changed since	When a Sin via the PI, it not drawing	shall prese power"	ent a non-valid detection si		
Beia, Christian Comment Type Table 33-10 The long fing Draft0.4, so t SuggestedReme remove TBD Proposed Respo Cl 33 SC Yseboodt, Lenna Comment Type	TR ger classification dy from Table nse 33.3.3.5 rt E on is missing dy	STMicroelectro Comment Status X ation timings (85ms min and an be removed 33-10, item 12, column Min Response Status O P 85 Philips Comment Status X	onics d 100ms max) h and column M	have not changed since	When a Sin via the PI, it not drawing	shall prese power"	ent a non-valid detection si		

C/ 33 SC 33.3.4

CI 33	SC	33.3.4		P 86	L <b>54</b>	# 156	C/ 3	3	SC	33.3.5		P 87	L <b>3</b>	# 90
Schindler,	Fred		S	een Simply			Yset	oodt, Le	ennar	t	ļ	Philips		
Comment	Туре	TR	Comment Sta	atus X			Com	nent Ty	ype	TR	Comment Si	tatus X		
"Wher detect 4 dual order t ability	n a Type tion sign l-signatu to receiv to acce	nature on ure PD sh ve 4-pair pt power	the set of pairs fr all present a valion power from Type	rom which it is d detection si a 3 and Type 4 s using LLDP	s not drawing   gnature on the 4 PSEs. Any F variable 4P-ID	I present a non-valid power. A Type 3 or T e unpowered pair in D may indicate the in Table 79-6b or Th se the reader.	ype 3D."	npower ** in orc The par y show	red pa der to rt of th ving ar	air receive 4 ne senten n invalid	1-pair power from nce in ** ** seem	n Type 3 and s to indicate	d Type 4 PSEs e that Type 3/4	ction signature on the , **." PDs can 'reject' 4P pow the 'shall' and reduces
Suggested	dRemea	ly					Sug	estedR	Remea	ły				
		entence		_				strike th	ne par	t of the lir	ne between ** ar	nd **.		
via the not dra	e PI, it s awing p	hall prese ower. A	ent a non-valid de Type 3 or Type 4	etection signa dual-signatu	ture on the se re PD shall pre	e PD becomes powe t of pairs from which esent a valid detection	itis Prop n	osed Re	espon	ise	Response St	atus <b>O</b>		
pair se	ets usin	g LLDP v	ariable 4P-ID in 1	Table 79-6b o		accept power on bo	C/ 3	<b>s</b> son, Pe		33.3.5		P <b>88</b> Sifos Techne	L <b>36</b> ologies	# 110
"Wher via the not dra	n a Týpe e PI, it s awing p	e 1 or Typ hall prese ower. A	be 2 PD or Type 3 ent a non-valid de Type 1 or Type 2	3 or Type 4 S etection signa PD or Type 3	ture on the se 3 or Type 4 du	e PD becomes powe t of pairs from which al-signature PD shal may indicate the abi	it is		a Link		Comment Sa assification that is the term u		Table 33-15a	
to acc	ept pow	er on bot	h pair sets using	LLDP variabl	e 4P-ID in Tal	ble 79-6b or TBD."		estedR						
										•	LL) classification	า		
Proposed	Respor	ise	Response Sta	tus <b>O</b>			Prop	osed Re	espon	nse	, Response St	atus <b>O</b>		
				0.07										
Cl 33 Schindler,		33.3.4		P <b>87</b> een Simply	L <b>4</b>	# 157								
<i>Comment</i> Fix typ		ER able 4P-IE	Comment Sta	atus X										
Suggested Replac			PD 4P-ID".											
Proposed	Respon	ise	Response Sta	tus <b>O</b>										
•				tus <b>O</b>										

CI 33 SC 33.3.5

	SC 33.3.5		P 89	L 1	# 117	C/ 33	SC	33.3.5.1		P <b>55</b>	L <b>4</b>	# 210
Johnson, Pe	ter		Sifos Techno	logies		Dwelley, [	David			Linear Techr	nology	
Comment Ty	/pe <b>T</b>	Comment S	tatus X			Comment	t Type	т	Comment S	tatus X		
Table 33	3-15a								in Table 33-4 a ge specs do not		air set. In general	, current specs apply
		ved the PSE port			on has become	Suggeste	dReme	dy				
SuggestedR	0	is separate. It c	an be simplin	leu.				pair set" i	n table title. Ad	d "per pair s	et" to parameter 2	: "Short circuit current
00	33-15a with:						air set"					
Replace	55 15a with.					Proposed	l Respoi	nse	Response St	atus <b>O</b>		
Туре	Class	Class Signature	e DLL									
1,3		ee Table 33-16	Optional			CI 33	SC	33.3.5.1		P 89	L <b>50</b>	# 37
2,3		e Table 33-16	Mandatory			Yseboodt	, Lenna	rt		Philips		
3 4		e Table 33-16a e Table 33-16a	Mandatory Mandatory			Comment	t Type	Е	Comment S	tatus X		
Remove	footnote fror	n Table 33-15a.				corre	espondir	ng to class	with a maximur 0-3 respond to	1-Event cla	ssification by retu	rning a Class signature
		ntence "Type 2, 1 t with the table no		ype 4 PDs impl	ement" as it is		2, or 3 ir rdance		aximum power	draw, PClas	s_PD."	
complete	ely redundant		SW.	ype 4 PDs impl	ement" as it is	acco	rdance		•	draw, PClas	s_PD."	
	ely redundant	t with the table no	SW.	ype 4 PDs impl	ement" as it is	acco PCla Suggeste	rdance ss_PD dRemed	with the m not in subs dy	script.	draw, PClas	s_PD."	
complete	ely redundant esponse SC 33.3.5	t with the table no Response Si	SW.	L <b>32</b>	ement" as it is # 212	acco PCla Suggeste	rdance iss_PD id <i>Remed</i> ge 'P_C	with the m not in subs dy lass_PD' to	•		s_PD."	
complete Proposed Re  Cl 33	ely redundant esponse SC <b>33.3.5</b> vid	t with the table no Response Si	ow. tatus <b>O</b> P 89 Linear Techn	L <b>32</b>		acco PCla Suggeste chang Proposed	rdance lss_PD d <i>Remed</i> ge 'P_C l <i>Respoi</i>	with the m not in subs dy lass_PD' to nse	script. o sub_script	atus <b>O</b>		
complete Proposed Re  Cl 33 Dwelley, Dav Comment Ty "Type 2,	ely redundant esponse SC <b>33.3.5</b> vid vpe <b>T</b> Type 3 and <sup>-</sup>	t with the table no Response Si Comment S	P 89 Linear Techn tatus X ement both M	L <b>32</b> ology lultiple-Event cla		acco PCla <i>Suggeste</i> chanç	rdance lss_PD dRemed ge 'P_C I Respor	with the m not in subs dy lass_PD' to	script. o sub_script <i>Response St</i>		L 16	# 213
complete Proposed Re  Cl 33 Dwelley, Dav Comment Ty "Type 2,	ely redundant esponse SC 33.3.5 vid /pe T Type 3 and <sup>-</sup> ) and Data Li	t with the table no Response St Comment S Type 4 PDs imple	P 89 Linear Techn tatus X ement both M	L <b>32</b> ology lultiple-Event cla	# 212	acco PCla Suggeste chang Proposed Cl 33	rdance Iss_PD dRemed ge 'P_C I Respor SC David	with the m not in subs dy lass_PD' to nse	script. o sub_script <i>Response St</i>	<i>P</i> 90 Linear Techr	L 16	# 213
complete Proposed Re Cl 33 Dwelley, Dav Comment Ty "Type 2, 33.3.5.2)	ely redundant esponse SC <b>33.3.5</b> vid /pe <b>T</b> Type 3 and <sup>-</sup> ) and Data Li "shall"	t with the table no Response St Comment S Type 4 PDs imple	P 89 Linear Techn tatus X ement both M	L <b>32</b> ology lultiple-Event cla	# 212	acco PCla Suggeste chang Proposed Cl 33 Dwelley, I Comment	rdance lss_PD dRemed ge 'P_Cl I Respor SC David t Type	with the m not in subs dy lass_PD' to nse 33.3.5.1 T	script. o sub_script <i>Response St</i>	<i>P</i> 90 Linear Techr	L 16	# <mark>213</mark>
complete Proposed Re Cl 33 Dwelley, Dav Comment Ty "Type 2, 33.3.5.2) Missing " SuggestedRe "Type 2,	ely redundant esponse SC 33.3.5 vid /pe T Type 3 and <sup>-</sup> ) and Data Li "shall" femedy Type 3 and <sup>-</sup>	t with the table no <i>Response</i> Si <i>Comment S</i> Type 4 PDs imple nk Layer classific Type 4 PDs shall	bw. tatus <b>O</b> <b>P 89</b> Linear Technol tatus <b>X</b> ement both M cation (see 33 implement bo	<i>L</i> 32 ology lultiple-Event cla 3.6)." oth Multiple-Eve	# 212	acco PCla Suggeste chang Proposed Cl 33 Dwelley, I Comment Table	rdance Iss_PD   dRemed ge 'P_Cl I Respon I Respon SC David t Type e 33-16:	with the m not in subs dy lass_PD' to nse 33.3.5.1 T Class 0 m	script. o sub_script <i>Response St</i> <i>Comment</i> S	<i>P</i> 90 Linear Techr tatus X	L 16	# [ <u>213</u>
complete Proposed Re Cl 33 Dwelley, Dav Comment Ty "Type 2, 33.3.5.2) Missing " SuggestedRe "Type 2, 33.3.5.2)	ely redundant esponse SC 33.3.5 vid /pe T Type 3 and <sup>-</sup> ) and Data Li "shall" 'emedy Type 3 and <sup>-</sup> ) and Data Li	t with the table no <i>Response Si</i> <i>Comment S</i> Type 4 PDs imple nk Layer classific Type 4 PDs shall nk Layer classific	bw. tatus <b>O</b> <b>P 89</b> Linear Technological tatus <b>X</b> ement both M cation (see 33 limplement both cation (see 33)	<i>L</i> 32 ology lultiple-Event cla 3.6)." oth Multiple-Eve	# 212	acco PCla Suggeste chang Proposed Cl 33 Dwelley, I Comment Table	rdance Iss_PD   dRemed ge 'P_C  I Resport SC David t Type 33-16: min is c	with the m not in subs dy lass_PD' to nse 33.3.5.1 T Class 0 m onsistent v	script. o sub_script <i>Response St</i> <i>Comment</i> S in is still TBD	<i>P</i> 90 Linear Techr tatus X	L 16	# <mark>213</mark>
complete Proposed Re Cl 33 Dwelley, Dav Comment Ty "Type 2, 33.3.5.2) Missing " SuggestedRe "Type 2,	ely redundant esponse SC 33.3.5 vid /pe T Type 3 and <sup>-</sup> ) and Data Li "shall" 'emedy Type 3 and <sup>-</sup> ) and Data Li	t with the table no <i>Response</i> Si <i>Comment S</i> Type 4 PDs imple nk Layer classific Type 4 PDs shall	bw. tatus <b>O</b> <b>P 89</b> Linear Technological tatus <b>X</b> ement both M cation (see 33 limplement both cation (see 33)	<i>L</i> 32 ology lultiple-Event cla 3.6)." oth Multiple-Eve	# 212	acco PCla Suggeste chang Proposed Cl 33 Dwelley, I Comment Table 2mA Suggeste	rdance iss_PD i dRemed ge 'P_CI I Resport SC David t Type e 33-16: min is c dRemed	with the m not in subs dy lass_PD' to nse 33.3.5.1 T Class 0 m onsistent v	script. o sub_script <i>Response St</i> <i>Comment S</i> in is still TBD with text on pag	<i>P</i> 90 Linear Techr tatus X	L 16	# <u>213</u>

C/ 33 SC 33.3.5.1

C/ 33 SC 33.3.5.1	P 90	L 16	# 241	CI 33	SC 33.3.5.	2 P 90	L <b>48</b>	# 214
Beia, Christian	STMicroelectr	ronics		Dwelley, D	David	Linear Techr	nology	
Comment Type TR	Comment Status X			Comment	Туре Т	Comment Status X		
Table 33-16				"The c pair se		d over each pair set is the total	l power requested	d by the PD over that
event discharging the PI As a worst case, the ma	urrent for Type 3 PDs ensur D port voltage after Class ev x input PD capacitance (120	vent. 0nF) has to drop	0	The w whole		nnecessary and could be misle	eading - it implies	the total power for the
(20.5V) to Vmark_th mir	n (10.1V) in less than Tme n	nin (6ms).		Suggested	dRemedy			
For the PD is helpful to t complete the discharge	ake some time to filter the \ in less than 2ms.	Vmark threshold,	so it is suggested to		e "total": "The c nat pair set."	lass advertised over each pair	set is the power	requested by the PD
The calculation gives Icl	ass=Cin*(Vclass-Vmark)/Td	discharge=624uA	۱.	Proposed	Response	Response Status O		
Choosing Iclass min=1m classification timings wit	nA, Tdischarge becomes 1.2 h no added complexity.	25ms, which give	es extra margin to the	C/ 33	SC 33.3.6	P 92	L 50	# 215
SuggestedRemedy				Dwelley, D	David	Linear Techr	nology	
Replace "TBD" in Table	33-16 line 2, column 3, with	1.00 n		Comment	Туре Т	Comment Status X		
Proposed Response	Response Status O					dentify the PSE Type as either e PSE Type as Type 1, Type 2		
C/ 33 SC 33.3.5.2	P 90	L 12	# 91	This s senter		't quite say what we want it to.	It would be bette	r split into two
rseboodt, Lennart	Philips			Suggested	dRemedy			
Comment Type <b>TR</b> Table 33-16a does not h	Comment Status X ave a row for Type 3 / CLas	ss 0 PDs.				3 Class 1-4 PD shall identify th or 6 PD shall identify the PSE		
There is no reason to dis	<i>,</i> ,			Proposed	Response	Response Status 0		
SuggestedRemedy								
Add row with following va PD Type, Class, class_s								
3, 0, 0, 0								

CI 33 SC 33.3.6

33 SC 33.3.6	P 93	L <b>5</b>	# 191	C/ 33 SC 33.3.7 P 94 L 16 # 147
alker, Dylan	Cisco			Schindler, Fred Seen Simply
omment Type ER	Comment Status X			Comment Type ER Comment Status X
The following sentence but it can remain at its	e seems to imply that "pse_p s default value of 1.	ower_level" mu	st be set to 2, 3, or 4,	The word "guaranteed" means a formal assurance that certain conditions shall be fulfilled. It is used in Table 33-18 item 4 in two places. On page 95, line 52 and on page 96 line 3.
lggestedRemedy				The word was used to differentiate between average power and average power used for
Change:				extended power that may be exceeded. This word has caused confusion for me and
	ultiple-Event Physical Layer c ppleted, the pse_power_level			others (see Draft 1.0 #172). For example, a reader of Table 33-18 sees "Input average power, Class 5" min is 40.0 W but the next line says "Input guaranteed available average power, Class 6" min is 51.0 W. Now I am worried that the Class 5 has less commitment to the minimum value than the Class 6 minimum value, which is not the case.
10.				The comment Editor provided this guidance for #172,
	ultiple-Event Physical Layer c npleted, the pse_power_level			I believe this word was added as part of the Extended Power work and is needed to distinguish between those classes with extended power and those without.
pposed Response	Response Status <b>O</b>			I believe less confusion will result by striking the word "guaranteed". Table 33-18 already references section 33.3.7.2, which provides the sentence,
				If such a PD has additional information and does not cause the PSE to source more than PClass it may exceed the maximum input guaranteed average power.
				The change provides the same details. Designers that want to use extended power may uses the exception pointed out in section 33.3.7.2.
				SuggestedRemedy
				Strike the word "guaranteed" in all Draft locations.
				Proposed Response Response Status <b>O</b>
				CI 33 SC 33.3.7 P 94 L 23 # 219
				Dwelley, David Linear Technology
				Comment Type TR Comment Status X
				Table 33-18 item 5: This places a new inrush requirement on Type 1/2 PDs when connected to a Type 3/4 PSE - can't do this
				SuggestedRemedy
				Move _2p text to item 5a, add PD Type "3,4" Restore original item 5 from AT

C/ 33	SC 33.3.7	P <b>94</b>	L <b>25</b>	# 220	C/ 33	SC 3	33.3.7	P <b>94</b>	L <b>46</b>	# 93
Dwelley, D	avid	Linear Techno	logy		Yseboodt,	Lennart		Philips		
Comment	Type TR	Comment Status X			Comment	Туре	TR	Comment Status X		
Table	33-18 item 6: "Ir	nrush to operating state delay	per pair set"				current t	ransient (absolute value) (Ta Гуре 4.	ble 33-18, item	8)
		rement suggests a SS PD mus SS PD may not be able to tell		e 2nd pair set has	Suggested	,	·			
Suggested	Remedy							results from intrinsic propertie erate with legacy Types, it wo		
	_2p text to item re item 6 to origi	6a, add new condition "Dual S nal AT text.	ignature PDs o	nly"	differe	ent	3 and 4.			J. J
Proposed	Response	Response Status O			Replac	ce TBD I	by 4.70 f	or Type 3 and Type 4 (and m	erge with Type <sup>2</sup>	1/2 line).
					Proposed	Respons	se	Response Status 0		
C/ 33	SC 33.3.7	P <b>94</b>	L <b>37</b>	# 132						
Darshan, N	Yair	Microsemi			C/ 33	SC 3	33.3.7	P <b>94</b>	L <b>48</b>	# 106
Comment	51	Comment Status X			Jones, Ch	ad		Cisco		
	33-18 item 7:	ged eq-33-12a to be used for a	all classes abou	a class A	Comment	Туре	TR	Comment Status X		
		ble 33-18 item 7 accordingly.		0 01000 4.			for Dave	5		
Suggested	Remedy							hange to "per pair set capacita I 2 in Pittsburgh.	ance" allows 36	0uF. We changed this
	33-18 item 7:				Suggested	•				
		n the parameter: Peak operation nge to: Peak operating power,			00	,	·	pacitance"		
Max va PD Ty	alue: Change fro pe: change to 3,	om 1.11xPclass_PD to 1.05xP 4.	class_PD	u o.		note: Th		<ul> <li>Pacitatice</li> <li>It's now called "PI capacita</li> </ul>	nce during MDI	_POWER states" and
2. Del	ete the next row	s of item 7 for classes 6 and 8			Proposed	Respons	se	Response Status 0		
Proposed	Response	Response Status 0								

C/ 33 SC 33.3.7

33	SC 33.3.7	P <b>94</b>	L <b>48</b>	# 137	CI 33	SC 33.3.7	P <b>94</b>	L <b>5</b>	# 92
arshan, Ya	iir	Microsemi			Yseboodt,	Lennart	Philips		
comment Ty	/pe TR	Comment Status X			Comment	Type TR	Comment Status		
The curr requirem Cport-2F If Type 1 than for 3 Type 3 n Dual Sig Type 3 : Type 4 : I additior (There a try to def See deta SuggestedRe Make the	nents as in Typ P_min need to 1/2 Cportmin=5 SS PD: needs total 4P needs 20uF 4F gnatture PD wil 5uF per pair so 10uF per pair so 10uF per pair so n Cport meanin are two possible fine what is Cp ails in darshan <i>Remedy</i> e following upo _04_0715.pdf	y not adress the need to keep e 2 etc for Type 3 and 4. be defined for Type 3 and 4 in uF input capacitance 10uF. P input capacitance 10uF. I need: et. set ing need to be specified in a c e interpretations for 33.3.7.3 I	n the following v lear way. ines 39-40 and em 9 Cpd_min	Note in line 47-48 that value for Type 3 and 4.	0-5 + 7 6 + 8 s This w exceed Extend later n The w Suggested Solutio - We k - Strike - Edito Solutio - Rem - Exter - Relat "Inpu - Edito Solutio - No cl	7 says "Input aver says "Input guar ras done to enab ding the input guar ormative text. ord 'guaranteed' <i>IRemedy</i> on 1: seep a distinction to update sect ove distinction be hele parameter for t available avera or to update sect on 3: hanges.	ly allowed for PDs in Cla ' may be confusing (are n between 'extended' ar anteed' in Table 33-18 f tion 33.3.7.2 also (removed) between 'extended' and ' s do NOT change, only or Item 4/Pclass_PD for age power, Class x" tion 33.3.7.2 also (removed)	e power, Class y" ause the original wo ss 6 or 8, this is me the others not guara d 'normal' classes a or Class 6 and Class e 'guaranteed') normal' classes in T allowed for Class 6+ ALL classes to: re 'guaranteed')	ording implicitly forbids ntioned several times in anteed?) Iso in Table 33-18 s 8
					<i>CI</i> <b>33</b> Yseboodt,	SC <b>33.3.7</b>	P <b>95</b> Philips	L 10	# 38
					Comment		Comment Status		
						is in capital lette			
					Suggested change	<i>IRemedy</i> e V_PP to V_pp	)		
					Proposed	<b>D</b>	Response Status		

C/ 33 SC 33.3.7 P 95 L 15 # 45 C/ 33 SC 33.3.7 P 98 L 13 # 102 Yseboodt, Lennart Philips Yseboodt, Lennart Philips Comment Status X Comment Type E Comment Status X Comment Type TR "When the input voltage at the PI is static and in the range of V Port PD defined by Table Table 33-18, item 11, the a) and b) are not needed and not referred to and inconsistent with the other tables. 33-18, the transient current drawn by the PD shall not exceed 4.70 mA/ms in either polarity. This limitation SuggestedRemedy applies after inrush Remove a) and b). has completed (33.3.7.3) and before the PD has disconnected." Proposed Response Response Status 0 Refer to pair sets rather than PI. SuggestedRemedy C/ 33 SC 33.3.7 P 95 L 15 # 63 "When the input voltage at the PI is static and in the range of V Port PD defined by Table 33-18, the transient Yseboodt, Lennart Philips current drawn by a single-signature PD shall not exceed 4.70 mA/us in either polarity. Comment Type ER Comment Status X A dual-signature PD shall not exceed 4.70 mA/us in either polarity per pairset in the same conditions. Table 33-18, item 11 defines V On and V Off. This limitation applies after inrush has completed (33.3.7.3) and before the PD has This is a clash with identically named V Off from Table 33-11, Item 16. disconnected." These Voffs do something totally different. Proposed Response Response Status 0 SuagestedRemedv Rename Table 33-18 V On to V On PD. Rename Table 33-18 V Off to V Off PD. C/ 33 SC 33.3.7.10 P 100 L 51 # 218 Change all references to the PD V\_Off and PD V\_On to the new V\_Off\_PD and V\_On\_PD. Dwelley, David Linear Technology Proposed Response Response Status O Comment Type Comment Status X Е "Type 3 PDs that are class 5 and above and Type 4 PDs from class 7 and above shall C/ 33 SC 33.3.7 P 95 / 20 # 100 meet the following requirements when tested using the test setup and test conditions specified in 33.3.7.10.1: The current measured at any pair shall not exceed Icont-2Punb as Yseboodt, Lennart Philips specified in Table 33-11 item 4a." Comment Type TR Comment Status X No PD Type in Table 33-18 for items 12 and 13 Awkward phrasing. SuggestedRemedy SuggestedRemedy Change to: "All Class 5 and higher PDs shall not exceed Icont 2p unb (Table 33-11, item Set PD Type to 'All'. 4a) on either pair set when tested according to 33.3.7.10.1." Proposed Response Response Status 0 Proposed Response Response Status 0

IEEE P802.3bt D1.1 4-Pair Power over Ethernet 4th Task Force review comments

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

C/ 33 SC 33.3.7.10 Page 48 of 60 7/7/2015 11:33:40 AM

C/ 33 SC 33.3.7.10 Yseboodt, Lennart	P <b>100</b> Philips	L <b>54</b>	# 65	C/ 33 SC Darshan, Yair	33.3.7.3	P <b>96</b> Microsemi	L <b>27</b>	# 134
" shall not exceed Icont-2 SuggestedRemedy " shall not exceed I_con-2	·			pair set comp before TInrus	t per pair-s pliant with V h-2P min p	Comment Status X rrent set is drawn beginning with th /port_PD-2P requirements as ber Table 33-11. After TInrush shold corresponding to its cla	s defined in Tab n-2P min, the P	le 33-18, and ending
The following comment adress supported by PSE linrush. S the same comment. See detailes in darshan_02 by PSE linrush_min. SuggestedRemedy 1. No changes to Table 33- 2014. 2. For capacitance values for see darshan_02_0715.pd	Since both parameters ar _0715.pdf titled: Type 3 a 11 item 5a linrush. It is in or Type 3 and 4 for SS ar	etied together, and 4 PD Cport	hey are adressed at max to be supported	It is only a fun Cport betwee POWERUP p equivalent to See detailed titled: "Only F SuggestedRemen See detailed Change lines "Inrush curre pair set comp "Inrush curre pair set comp when Vport_I	nction of th n 5uF to 1 bhase, it ha Tinrush_n analysis ir 2D affects dy analysis a 26-27 from t per pair bliant with ' PD-2P rea TInrush-2F	set is drawn beginning with th /port_PD-2P requirements as set is drawn beginning with th /port_PD-2P requirements as ches steady state within time P min, the PD shall not exceed	ardless of the c and load current 50msec which is PSE requirement (Not the PSE T y in darshan_0 he application o s defined in To: he application o s defined in Tab duration TInrus	hoices it has to use of up to 350mA during s the number nts. inrush Timer). 1_0715.pdf. f input voltage at the f input voltage at the ile 33–18, and ends h-2P min per Table
				Proposed Respo	nse	Response Status O		

Cl 33 SC 33.3.7.3

	SC 33.3.7	.3 P 96	L 28	# 216	CI 33	SC 33.3.7.3	P 96	L <b>39</b>	# 46
Dwelley, I	David	Linear Techn	ology		Yseboodt, I	ennart	Philips		
Comment	t Type <b>TR</b>	Comment Status X			Comment 7	уре Е	Comment Status X		
corres	sponding to its		·		pair se		startup is limited by the PSE i specified in Table 33-11." Table 33-11	f C_Port per	
	are limited to po s regard than D	ower, not current, in POWER_0 S PDs are.	ON mode. SS PD	s are treated differently	Suggested	,	le 33-18. Change reference.		
Suggeste	dRemedy						ů,		
Pclas	s_pd, correspo	nrush-2P min, a single-signatur onding to its class level." in, a dual-signature PD shall no			Proposed F	esponse	Response Status <b>O</b>		
		onding to the class level adverti			CI 33	SC 33.3.7.3	P <b>96</b>	L <b>46</b>	# 153
Proposed	l Response	Response Status 0			Schindler, I	Fred	Seen Simply		
					Comment 7	ype ER	Comment Status X		
CI 33	SC 33.3.7		L <b>39</b>	# 236		) inrush require section.	ments are dependent on PSE of	operations that a	are not disclosed in
Yseboodt	, Lennart	Philips			Suggested	Remedy			
Comment	t Type ER	Comment Status X			Add the	e following note	above the existing note on line	46.	
"Input specit	t inrush current fied in Table 33		E if C_Port per pa	air set < 180 mF, as	PD inp		bjected to PSE POWER_ON c hes 99% of steady state or wh s.		
		et >=180 mF, input inrush curre		.,					
Inrusł	h_PD per pair s	et >=180 mF, input inrush curre set max is satisfied." pair set is the C port seen by a	n attached PSE o		Proposed F	Response	Response Status <b>O</b>		
Inrush "NOT The n	h_PD per pair s E C port per note changes th	set max is satisfied."		on two twisted pairs"	Proposed F	Response SC <b>33.3.7.3</b>		L <b>47</b>	# 125
Inrush "NOT The n Suggeste	h_PD per pair s E C port per note changes th dRemedy	set max is satisfied." pair set is the C port seen by a ne technical meaning of the firs	t two statements.	n two twisted pairs"	·	SC <b>33.3.7.3</b>	Response Status O		# [125
Inrusł "NOT The n S <i>uggeste</i> "For s	h_PD per pair s E C port per note changes th <i>dRemedy</i> single-signature	set max is satisfied." pair set is the C port seen by a ne technical meaning of the firs e PDs, the input inrush current a	t two statements.	n two twisted pairs"	CI 33	SC <b>33.3.7.3</b>	Response Status O		# [125
Inrush "NOT The n Suggeste "For s < 180 "For c per pa	h_PD per pair s E C port per note changes th <i>dRemedy</i> single-signature 0 uF, as specifi dual-signature l air set < 180 ul	set max is satisfied." pair set is the C port seen by an ne technical meaning of the firs e PDs, the input inrush current a ed in Table 33-11." PDs, the input inrush current at =, as specified in Table 33-11."	t two statements. at startup is limite startup is limited	on two twisted pairs" ed by the PSE if C_Port by the PSE if C_Port	CI <b>33</b> Picard, Jea Comment T The no	SC <b>33.3.7.3</b> n <i>Type</i> <b>TR</b>	Response Status O P 96 Texas Instrume	ents	
Inrush "NOT The n Suggeste "For s < 180 "For c per pa "A sin	h_PD per pair s E C port per note changes th <i>dRemedy</i> single-signature 0 uF, as specifi dual-signature air set < 180 ul ngle-signature	set max is satisfied." pair set is the C port seen by an ne technical meaning of the firs e PDs, the input inrush current is ed in Table 33-11." PDs, the input inrush current at F, as specified in Table 33-11." PD with C_Port > 180uF, or a c	t two statements. at startup is limite startup is limited	on two twisted pairs" ed by the PSE if C_Port by the PSE if C_Port	CI <b>33</b> Picard, Jea Comment T The no	SC 33.3.7.3 n Type TR te needs some and operation.	Response Status O P 96 Texas Instrume Comment Status X	ents	
Inrush "NOT The n <i>Suggeste</i> "For s < 180 "For c per pa "A sin shall l below	h_PD per pair s E C port per note changes th <i>dRemedy</i> single-signature 0 uF, as specifi dual-signature l air set < 180 ul	set max is satisfied." pair set is the C port seen by an ne technical meaning of the first e PDs, the input inrush current is ed in Table 33-11." PDs, the input inrush current at F, as specified in Table 33-11." PD with C_Port > 180uF, or a con nrush current	t two statements. at startup is limite startup is limited	on two twisted pairs" ed by the PSE if C_Port by the PSE if C_Port	CI 33 Picard, Jea Comment T The no inrush Suggested Cport p	SC 33.3.7.3 n Type TR te needs some and operation. Remedy er pair set is th	Response Status O P 96 Texas Instrume Comment Status X	ents acitance the PSI	E will see during

C/ 33 SC 33.3.7.3

	SC 33.3.7.3	P <b>96</b>	L <b>48</b>	# 107	C/ <b>33</b>	SC 33.3.7.4	P <b>96</b>	L <b>53</b>	# 78
Jones, Chad	l	Cisco			Yseboodt,	Lennart	Philips		
Comment Ty	vpe TR	Comment Status X			Comment	Туре Т	Comment Status X		
We don'		50- 75msec in Type 3 and 4				erload is the PD oad is missing -2	PI voltage when the PD is d 2P.	rawing the permis	sible P Peak_PD."
	due to measu ed earlier.	ring PD voltage/current/time	profile by the PS	E and knowing that it	Suggested	lRemedy			
In some	large mutiport	systems time for all ports to			Chang	e 'Voverload' to	'Voverload-2P'.		
number behavior		SE power supply power capa	ability and its resp	conse to dynamic load	Proposed I	Response	Response Status O		
uggestedR	•								
	Editor Note at t ess the followin	he end of 33.3.7.3.			C/ <b>33</b>	SC 33.3.7.4	P <b>97</b>	L <b>43</b>	# 101
		f PSE has the knowledge that	at PD is done wit	h its Inrush.	Yseboodt,	Lennart	Philips		
2. Faste		y allowing higher linrush_ma			Comment Formu		Comment Status X bes the maximum current fo	r PDs in class 6 c	or 8 and is TBD.
roposed Re	esponse	Response Status 0			Suggested	IRemedy			
					Eq 33-	-			
33	SC 33.3.7.3	P 96	L 48	# 135	I_portr	max = P_Class /	V_PSE (Ampere)		
			- +0	" 155					
		Microsemi			where				
arshan, Ya	ir				I_por	tmax is the RMS			
arshan, Ya omment Ty	ir /pe TR	Comment Status X			I_por P_Cla	ass is the allocat	ed class power as defined in		ation 33-3
arshan, Ya omment Ty (WAS A We don' required	ir /pe TR LSO IN D1.0 C t want to wait 5 due to measure			sh to be ended if not	I_por P_Cla	ass is the allocat SE is the voltage			ation 33-3
arshan, Ya omment Ty (WAS A We don' required was end	ir <i>tpe</i> <b>TR</b> LSO IN D1.0 C t want to wait 5 due to measur ed earlier.	Comment Status X COMMENT #334) 50- 75msec in Type 3 and 4 s	profile by the PS	sh to be ended if not E and knowing that it	I_por P_Cla V_PS Proposed I	ass is the allocat SE is the voltage <i>Response</i>	ed class power as defined in at the PSE PI as defined in	1.4.426	
wirshan, Ya mment Ty (WAS A We don' required was end In some number	ir <i>tpe</i> <b>TR</b> LSO IN D1.0 C t want to wait 5 due to measur ed earlier. large mutiport of ports and PS	Comment Status X COMMENT #334) 50- 75msec in Type 3 and 4 st ring PD voltage/current/time	profile by the PS be ON is affecte	sh to be ended if not E and knowing that it d by Tinrush*N. N	I_por P_Cla V_PS Proposed I CI 33	ass is the allocal SE is the voltage Response SC 33.3.7.4	ed class power as defined in at the PSE PI as defined in <i>Response Status</i> <b>O</b> <i>P</i> <b>97</b>		ation 33-3 # <u>164</u>
arshan, Ya omment Ty (WAS A We don' required was end In some	ir <i>tpe</i> <b>TR</b> LSO IN D1.0 C t want to wait 5 due to measur ed earlier. large mutiport of ports and PS	Comment Status X COMMENT #334) 50- 75msec in Type 3 and 4 st ring PD voltage/current/time systems time for all ports to	profile by the PS be ON is affecte	sh to be ended if not E and knowing that it d by Tinrush*N. N	I_por P_Cla V_PS Proposed I CI 33	ass is the allocat SE is the voltage <i>Response</i>	ed class power as defined in at the PSE PI as defined in <i>Response Status</i> <b>O</b> <i>P</i> <b>97</b> ya self	1.4.426	
arshan, Ya omment Ty (WAS A We don' required was end In some number behavior	ir <i>type</i> <b>TR</b> LSO IN D1.0 C t want to wait 5 due to measured ed earlier. large mutiport of ports and PS r.	Comment Status X COMMENT #334) 50- 75msec in Type 3 and 4 st ring PD voltage/current/time systems time for all ports to	profile by the PS be ON is affecte	sh to be ended if not E and knowing that it d by Tinrush*N. N	I_por P_Cla V_PS Proposed I CI 33 Balasubrar Comment	ass is the allocat SE is the voltage <i>Response</i> SC <b>33.3.7.4</b> manian, Koussal <i>Type</i> <b>TR</b>	ed class power as defined in at the PSE PI as defined in <i>Response Status</i> <b>O</b> <i>P</i> <b>97</b> ya self <i>Comment Status</i> <b>X</b>	1.4.426	# 164
arshan, Ya omment Ty (WAS A We don' required was end In some number behavior	ir <i>type</i> <b>TR</b> LSO IN D1.0 C t want to wait 5 due to measured ed earlier. large mutiport of ports and PS r.	Comment Status X COMMENT #334) 50- 75msec in Type 3 and 4 st ring PD voltage/current/time systems time for all ports to SE power supply power capa	profile by the PS be ON is affecte	sh to be ended if not E and knowing that it d by Tinrush*N. N	I_por P_Cla V_PS Proposed I C/ 33 Balasubrar Comment	ass is the allocat SE is the voltage <i>Response</i> SC <b>33.3.7.4</b> manian, Koussal <i>Type</i> <b>TR</b> tent #370 on D1.	ed class power as defined in at the PSE PI as defined in <i>Response Status</i> <b>O</b> <i>P</i> <b>97</b> ya self	1.4.426 <i>L</i> <b>45</b> h uses Equation 3	# 164
arshan, Ya omment Ty (WAS A We don' required was end In some number behavior	ir <i>type</i> <b>TR</b> LSO IN D1.0 C t want to wait 5 due to measure to earlier. large mutiport of ports and PS r. <i>thermedy</i> wn comment #3	Comment Status X COMMENT #334) 50- 75msec in Type 3 and 4 st ring PD voltage/current/time systems time for all ports to SE power supply power capa	profile by the PS be ON is affecte	sh to be ended if not E and knowing that it d by Tinrush*N. N	I_por P_Cla V_PS Proposed I C/ 33 Balasubrar Comment	ass is the allocal SE is the voltage <i>Response</i> SC <b>33.3.7.4</b> manian, Koussal <i>Type</i> <b>TR</b> nent #370 on D1. is 0 through 4. I I	ed class power as defined in at the PSE PI as defined in <i>Response Status</i> <b>O</b> <i>P</i> <b>97</b> ya self <i>Comment Status</i> <b>X</b> 0 changes original text whic	1.4.426 <i>L</i> <b>45</b> h uses Equation 3	# 164
arshan, Ya comment Ty (WAS A We don' required was end In some number behavior	ir <i>type</i> <b>TR</b> LSO IN D1.0 C t want to wait 5 due to measure to earlier. large mutiport of ports and PS r. <i>thermedy</i> wn comment #3	Comment Status X COMMENT #334) 50- 75msec in Type 3 and 4 string PD voltage/current/time systems time for all ports to SE power supply power capa 334 from D1.0.	profile by the PS be ON is affecte	sh to be ended if not E and knowing that it d by Tinrush*N. N	L_por P_Cla V_PS Proposed I CI 33 Balasubrar Comment Comm to clas Suggested	ass is the allocal SE is the voltage <i>Response</i> SC <b>33.3.7.4</b> manian, Koussal <i>Type</i> <b>TR</b> nent #370 on D1. is 0 through 4. I I	ed class power as defined in at the PSE PI as defined in <i>Response Status</i> <b>O</b> <i>P</i> <b>97</b> ya self <i>Comment Status</i> <b>X</b> 0 changes original text whic believe this is not the intention	1.4.426 <i>L</i> <b>45</b> h uses Equation 3	# 164

C/ 33 SC 33.3.7.4

33 SC 33.3.7.4								
JJ 00 JJ.J.1.4	P <b>97</b>	L <b>5</b>	# 64	CI 33	SC 33.3.7.5	P <b>99</b>	L 15	# 81
seboodt, Lennart	Philips			Yseboodt, I	_ennart	Philips		
omment Type ER	Comment Status X			Comment 7	Гуре Т	Comment Status X		
	the PI, c lass 6 or class 8 P	'Ds in operating (	condition, the peak	T_CUT	min is not a de	fined parameter		
power shall not exceed	or more than T CUT min, as	e defined in Tabl	o 22 11 and 5% duty	Suggestedl	Remedy			
cycle."		s denned in Table	5 35-11 and 5 % duty		e to T_CUT-2P ı	min		
De dalaren izarren erretarren	and to be and			Proposed F	Response	Response Status <b>O</b>		
Bad phrasing + extra sp	ace in class.					- <b>-</b>		
uggestedRemedy								
the peak power shall not	PDs in any operating condi t exceed	tion with any stat	ac voltage at the PI,	CI 33	SC 33.3.7.5	P 99	L 19	# 82
	for more than T_CUT min, a	as defined in Tab	le 33-11 and with 5%	Yseboodt, I		Philips		
duty cycle."				Comment 7	51	Comment Status X		
roposed Response	Response Status 0				PSE transient of the PSE is	conditions in which the volta	ge at the PI is un	dergoing dynamic
						the transient current drawn	by the PD for at	least T LIM min as
33 SC 33.3.7.5	P 98	L 17	# 149	defined			-	
chindler, Fred	Seen Simply		" 110	Table : TLIM is	33-11." s not defined			
omment Type ER	Comment Status X			Suggested				
				00	e TLIM to TLIM-	2P		
Draft text.								
	, shall operate below the PE	D extended temp	late defined in Figure	Proposed B	Pasnonsa	Posponso Status		
	, shall operate below the PI	Cextended temp	late defined in Figure	Proposed F	Response	Response Status O		
"Class 6 or Class 8 PDs, 33-18."	, shall operate below the PE because not context is prov		C C	Proposed F	Response	Response Status 0		
"Class 6 or Class 8 PDs, 33-18."			C C	C/ 33	SC 33.3.7.6	P 100	L 8	# 217
"Class 6 or Class 8 PDs, 33-18." may confuse the reader			C C	, 	SC 33.3.7.6			# 217
"Class 6 or Class 8 PDs, 33-18." may confuse the reader exists. uggestedRemedy Add a period to the sente	because not context is prov ence on line 19 ending in Fi	vided on why the	extended template	C/ 33	SC <b>33.3.7.6</b> avid	P 100		# 217
"Class 6 or Class 8 PDs, 33-18." may confuse the reader exists. uggestedRemedy	because not context is prov ence on line 19 ending in Fi	vided on why the	extended template	CI <b>33</b> Dwelley, Da Comment 1	SC <b>33.3.7.6</b> avid Fype <b>T</b>	P <b>100</b> Linear Techr	hology	
"Class 6 or Class 8 PDs, 33-18." may confuse the reader exists. uggestedRemedy Add a period to the sente sentence after the correct	because not context is prov ence on line 19 ending in Fi	vided on why the	extended template	C/ <b>33</b> Dwelley, Da Comment 7 "The cu	SC <b>33.3.7.6</b> avid <i>Type</i> <b>T</b> urrent limit per p	P 100 Linear Techr Comment Status X	hology	
"Class 6 or Class 8 PDs, 33-18." may confuse the reader exists. uggestedRemedy Add a period to the sente sentence after the correct	because not context is prov ence on line 19 ending in Fi cted sentence.	vided on why the	extended template	CI 33 Dwelley, Da Comment 7 "The cu MDI sh	SC <b>33.3.7.6</b> avid <i>Type</i> <b>T</b> urrent limit per p ould be PI	P 100 Linear Techr Comment Status X	hology	
"Class 6 or Class 8 PDs, 33-18." may confuse the reader exists. uggestedRemedy Add a period to the sente sentence after the correct See 33.3.7.2 for details of	because not context is prov ence on line 19 ending in Fi cted sentence. on Class 6 and Class 8 PD	vided on why the	extended template	CI 33 Dwelley, Da Comment 1 "The cu MDI sh Suggested	SC 33.3.7.6 avid Type T urrent limit per p ould be PI Remedy	P 100 Linear Techr <i>Comment Status</i> X air set at the MDI (MDI ILIM	hology	
"Class 6 or Class 8 PDs, 33-18." may confuse the reader exists. uggestedRemedy Add a period to the sente sentence after the correct See 33.3.7.2 for details of	because not context is prov ence on line 19 ending in Fi cted sentence. on Class 6 and Class 8 PD	vided on why the	extended template	CI 33 Dwelley, Da Comment 1 "The cu MDI sh Suggested	SC <b>33.3.7.6</b> avid <i>Type</i> <b>T</b> urrent limit per p ould be PI	P 100 Linear Techr <i>Comment Status</i> X air set at the MDI (MDI ILIM	hology	
"Class 6 or Class 8 PDs, 33-18." may confuse the reader exists. uggestedRemedy Add a period to the sente sentence after the correct See 33.3.7.2 for details of	because not context is prov ence on line 19 ending in Fi cted sentence. on Class 6 and Class 8 PD	vided on why the	extended template	CI 33 Dwelley, Da Comment 7 "The cu MDI sh Suggested Replac	SC 33.3.7.6 avid Type T urrent limit per p ould be PI Remedy e MDI with PI th	P 100 Linear Techr <i>Comment Status</i> X air set at the MDI (MDI ILIM	ology -2P) is defined by	/ Equation (33–14):

C/ 33 SC 33.3.7.6

CI 33	SC 33.3.7.6	P <b>99</b>	L <b>48</b>	# 150
Schindle	r. Fred	Seen Simply		

Comment Type **TR** Comment Status **X** 

New PD Types need to have their current demands constrained. The text region to be modified is,

A Type 1 PD with input capacitance of 180  $\mu$ F or less requires no special considerations with regard to transients at the PD PI. A Type 2 PD with peak power draw that does not exceed PClass\_PD max and has an input capacitance of 180  $\mu$ F or less requires no special considerations with regard to transients at the PD PI. PDs that do not meet these requirements shall comply with the following:

A Type 1 PD input current shall not exceed the PD upperbound template (see Figure 33–18) after

TLIM min (see Table 33–11 for a Type 1 PSE) when the following input voltage is applied. A current

limited voltage source is applied to the PI through a RCh resistance (see Table 33–1). The current

limit meets Equation (33–14) and the voltage ramps from VPort\_PSE min to VPort\_PSE max at

2250 V/s.

A Type 2 PD shall meet both of the following:

a) The PD input current spike shall not exceed 2.5 A and shall settle below the PD upperbound template (see Figure 33–18) within 4 ms. During this test, the PD PI voltage is driven from 50 V to 52.5 V at greater than 3.5 V/ $\mu$ s, a source impedance of 1.5 ?, and a source that supports a current greater than 2.5 A.

b) The PD shall not exceed the PD upperbound template beyond TLIM min under worstcase current draw under the following conditions. The input voltage source drives VPD from VPort\_PSE min to 56 V at 2250 V/s, the source impedance is RCh (see Table 33–1), and the voltage source limits the current to MDI ILIM per Equation (33–14).

### SuggestedRemedy

Replace referenced Draft text starting on line 48 with,

A Type 1 PD with input capacitance of 180  $\mu$ F or less requires no special considerations with regard to transients at the PD PI. Type 2, Type 3, and Type 4 PDs, with peak power draw that does not exceed PClass\_PD max and has an input capacitance of 180  $\mu$ F or less requires no special considerations with regard to transients at the PD PI. PDs that do not meet these requirements shall comply with the following:

- The input current for Type 1 and Type 3 PDs consuming less than class-4 power levels, shall not exceed the PD upperbound template (see Figure 33-18) after TLIM min (see Table 33-11 for Type 1 and Type 3 PSEs) when the following input voltage is applied. A current limited voltage source is applied to the PI through a RCh resistance (see Table 33-1). The current limit meets Equation (33-14) and the voltage ramps from VPort\_PSE min to

VPort\_PSE max at 2250 V/s.

A Type 2, Type 3 PDs consuming more than class-4 power levels, and Type 4 PDs, shall meet both of the following:

a) The PD input current spike shall not exceed 2.5 A and shall settle below the PD upperbound template (see Figure 33-18) within 4 ms. During this test, the PD PI voltage is driven from 50 V to 52.5 V at greater than 3.5 V/ $\mu$ s, a source impedance of 1.5 [ohms], and a source that supports a current greater than 2.5 A.

b) The PD shall not exceed the PD upperbound template beyond TLIM min under worstcase current draw under the following conditions. The input voltage source drives VPD from VPort\_PSE min to 56 V at 2250 V/s, the source impedance is RCh (see Table 33-1), and the voltage source limits the current to MDI ILIM per Equation (33-14).

Proposed Response Response Status O

C/ 33	SC 33.3.8	P 102	L 26	# 243
Beia, Christ	ian	STMicroelectr	onics	

Comment Type TR Comment Status X

It is very hard for a PD to swith between a condition where the AC MPS component requirements are present, to a condition where those requirements are absent. Since there is no easy way for a froze up PD to reboot, it may be convenient to take advantage of the absence of a DC MPS component.

In order to preserve legacy behavior, the new requirement is for Type3 and Type4 PSE only.

See also the relevant presentation.

### SuggestedRemedy

Replace the text:

Powered PDs that no longer require power shall remove both the current draw and impedance components of the MPS. To cause PSE power removal, the impedance of the PI should rise above Zac2 as specified in Table 33–12

### With

Powered PDs that no longer require power, and identify the PSE as Type 1 or Type 2, shall remove the current draw and impedance components of the MPS. To cause Type 1 and Type 2 PSE power removal, the impedance of the PI should rise above Zac2 as specified in Table 33–12

Powered PDs that no longer require power, and identify the PSE as Type 3 or Type 4, shall remove the current draw component and may remove the impedance component of the MPS.

Proposed Response Response Status O

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	CI 33	Page 53 of 60
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn	SC 33.3.8	7/7/2015 11:33:40 AM
SORT ORDER: Clause, Subclause, page, line		

C/ 33         SC 33.3.8         P 102         L 31         # 151           Schindler, Fred         Seen Simply	C/ 33         SC 33.3.8         P 102         L 41         # 158           Balasubramanian, Koussalya         self
Comment Type ER Comment Status X	Comment Type E Comment Status X
The legacy table 33-19 had lport_MPS removed and then added to Table 33-19a. The note below Table 33-19 references the current moved to Table 33-19a.	The note below Table 33-19 referencing lport_mps doesnt belong there as Table 33-19 doesnt contain lport_mps any more.
uggestedRemedy	SuggestedRemedy
	Move the note below Table 33-19a
Either combine Table 33-19 and 33-19a to create Table 33-19 or move the note, NOTE—A Type 1 or 2 PD with Cport > 180 $\mu$ F or a Type 3 PD with Cport > TBD uF PDs may not be able to meet the IPort_MPS specification in Table 33–19 during the maximum allowed port voltage droop (VPort_PSE max to VPort_PSE min with series resistance	Proposed Response Response Status <b>O</b>
RCh). Such a PD should increase its IPort min or make other such provisions to meet the	CI 33 SC 33.3.8 P 103 L 34 # 239
Maintain Power Signature.	Beia, Christian STMicroelectronics
If the note is moved, correct the Table reference "Table 33-19" to "Table 33-19a".	Comment Type T Comment Status X
roposed Response Response Status <b>O</b>	Table 33-19a A convenient way for the PD to change the MPS from Type 1,2 timings to Type 3,4 timin is to keep the same frequency of the pulses and change the duty cycle. This was the reason why Type 3,4 TMPDO_PD was set to 318ms until Draft 1.0.
33         SC 33.3.8         P 102         L 36         # 9           ennett, Ken         Sifos Technologies, In	Changing it to 300ms adds design complexity to the PD. TMPDO for type 3,4 PSE can be kept to 320ms leaving a little margin between PSE and
omment Type TR Comment Status X	PD specs.
Item 1 in table 33-19, PD Maintain Power Signature, specifies an input resistance of 26.3k-	SuggestedRemedy
Ohm max. The new DC MPS could enable average DC currents as low as 250uA, however the resistance requirement of 26.3k max. requires average currents on the scale	Restore Table 33-19a, last row (Item 3, Parameter PD drop out period TMPDO_PD)
of 2mA.	MAX: 318 ; PD Type 3,4 ; if long first class event (TLCF)
The 26.3k resistance requirement should be removed for Type 3 and 4 PD's so that the efficiency provided by the new DC MPS rules can be fully realized.	Proposed Response Response Status <b>O</b>
SuggestedRemedy	
In the additional information of item 1 table 33-19, add the following: Type 1 and Type 2 Only	
Pronosod Posnonso Responso Status	

Proposed Response Response Status **0** 

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

C/ 33 SC 33.3.8 Page 54 of 60 7/7/2015 11:33:40 AM

C/ 33 SC 33.4.1 P 104 L 13 # 152	Cl 33 SC 33.4.9.1 P 113 L 20 # 268
Schindler, Fred Seen Simply	Zimmerman, George CME Consulting, Inc.
omment Type TR Comment Status X	Comment Type T Comment Status X
Several changes were made to reference the latest IEC 62368-1 rather than IEC 60950-1	"10GBASE-T connector or telecom outlet Midspan PSE"
(without date). Now the standard refers to both standards. The IEC 62368-1 supersedes the old specification.	what is a '10GBASE-T connector'? is it the 10GBASE-T MDI connector?
	SuggestedRemedy
I do not know whether the sections referenced have changed. However, if they have, then it is not clear which standard the IEEE is referencing to meet the IEEE requirements. If the	change 'connector' to 'MDI connector'
reference sections have not changed then the older specification is satisfactory.	Proposed Response Response Status <b>O</b>
uggestedRemedy	
The Task Force should review the new specification to determine if changes have been	
made to the IEEE referenced sections. If these sections have changed then the group	Cl 33 SC 33.4.9.1 P 113 L 38 # 269
should review whether the changes are acceptable for the .3BT specification. If they are then strike "IEC 60950-1 and" from the Draft.	Zimmerman, George CME Consulting, Inc.
	Comment Type T Comment Status X
If the IEC specifications are the same the group should decide whether referencing the new standard is necessary. More legacy IEC specifications exist than new ones.	"For up to 1000BASE-T operation, NEXT loss for Midspan PSE devices"
Therefore, I would prefer that the Draft strike "and IEC 62368-1".	This should include 1000BASE-T, but exclude 10GBASE-T.
	SuggestedRemedy
roposed Response Response Status <b>O</b>	Replace "for up to 1000BASE-T operation" with "For operation with 1000BASE-T and lov rates".
/ 33 SC 33.4.9 P 110 L 32 # 47	Proposed Response Response Status O
seboodt, Lennart Philips	
omment Type E Comment Status X	CI 33 SC 33.4.9.1.2 P114 L19 # 270
"The configuration of "channel" and "permanent link" is	Zimmerman, George CME Consulting, Inc.
defined in Figure 33-24. Type 2, 3 and 4 Midspan PSE cabling system requirements are specified in ."	Comment Type T Comment Status X
specified in .	"For 1000BASE-T operation, insertion loss"
Unbearable suspense. Where are they specified?!	should be for rates up to 1000BASE-T, inclusive.
uggestedRemedy	802.3bz is expected to also use these rates, so operation other than 10G would be ok too
	SuggestedRemedy
roposed Response Response Status O	Replace "for 1000BASE-T operation, " with "For other than 10GBASE-T operation, "
	Proposed Response Response Status <b>O</b>

C/ 33 SC 33.4.9.1.2

/ 33 SC 33.4.9.1.3	P 114	L <b>50</b>	# 48	C/ 33 SC	33.5.1.1	P 118	L 10	# 192
seboodt, Lennart	Philips			Walker, Dylan		Cisco		
omment Type E Comme	ent Status X			Comment Type	TR	Comment Status X		
Remove space at end of scentene Original text: "or exceed the value		able 33-20 ."		Table 33-21.				
uggestedRemedy "or exceed the values specified	in Tabla 22 20 "					nature PD 4-pair Power" does son, irrespective of PD archite		t since a PSE can
				SuggestedReme	dy			
roposed Response Respons	se Status <b>O</b>					.6 in Table 33-21, move bit 6 1a, which describes "Deny d		
/ 33 SC 33.4.9.1.4c seboodt, Lennart	P 115 Philips	L <b>34</b>	# 49	Proposed Respo	nse	Response Status 0		
	ent Status X				33.5.1.1	P 118	L 10	# 50
Remove space after parentesis op Original text: "Midspan PSEs inter		with 10GBASE-	T ( variants 5 and 6 in	Yseboodt, Lenna		Philips		
Clause 33.4.9.1) are additionally r	equired to"		Υ.	Comment Type	E consistent i	Comment Status X n Table 33-21.		
<i>lggestedRemedy</i>				·		11 Table 33-21.		
"Midspan PSEs intended for opera 33.4.9.1) are additionally required		SE-T (variants 5 a	and 6 in Clause	SuggestedReme change to for		times in table)		
roposed Response Respons	se Status <b>O</b>			Proposed Respo	nse	Response Status <b>O</b>		
/ 33 SC 33.5.1.1	P 118	L 10	# 271		33.5.1.1	P 118	L 10	# 51
nmerman, George	CME Consulti	ng, Inc.		Yseboodt, Lenna	rt	Philips		
	ent Status X			Comment Type	Е	Comment Status X		
Table 33-21 (register 11), bit 6, "C - the variable this was supposed t Also described in 33.5.1.1.1a						when connection check retur power when connection chec		
iggestedRemedy				Bad languag	je.			
No change needed to Table 33-21	I			SuggestedReme	dy			
						when connection check retur power when connection chec		
Delete row for bit 11.6 Reinstate the reserved bits as 11.	15:6		() (2) (7)		<i>,</i> ,	•		ignature
Delete row for bit 11.6	15:6 eny dual-signature	PD 4-pair powe	r (lines 40-47)	Proposed Respo	• •	Response Status <b>O</b>		gliature

C/ 33 SC 33.5.1.1

C/ 33 SC 33.5.1.1	<i>P</i> 118	L 19	# 193	C/ 33 SC 33.5.	1.1.1	P 118	L <b>42</b>	# 148
Walker, Dylan	Cisco			Schindler, Fred		Seen Simply		
Comment Type TR Comr Table 33-21.	nent Status X			Comment Type ER Section reference i The variable deny_	s 33.5.1.1.1a	nt Status X	g text should be	fixed.
The value of "11" for bits 11.3:2 Alternative A and Alternative B.	has not been upda	ted to reflect PSE	support for both	SuggestedRemedy	un an an al dan d			
SuggestedRemedy				Strike the Draft refe	erenced text.			
Under Description for bits 11.3:	2:			33.5.1.1.1a Deny d The provision of 4-			by physical laye	r 4-pair ID shall be
Replace: "1 1 = Reserved"				inhibited by setting deny_dual_sig_4pa				
With: "1 1 = PSE pinout Altern	ative A and B"			deny_dual_sig_4pa	ir_power to fals	se.	-	
Proposed Response Respo	nse Status O			Replace Table 33-2 when read", and R/			eserved and des	scription as "Ignore
C/ <b>33</b> SC <b>33.5.1.1</b> Walker, Dylan	<i>P</i> <b>118</b> Cisco	L <b>24</b>	# 194	Proposed Response	Respons	e Status <b>O</b>		
Comment Type <b>TR</b> Comr Table 33-21, bits 11.1:0, value '	nent Status X 10 = Force Power <sup>-</sup>	Test Mode"		C/ 33 SC 33.5. Yseboodt, Lennart	l.1.1a	P <b>118</b> Philips	L <b>42</b>	# 52
There aren't enough encodings are of value.	to specify pairset s	pecific Force Pow	ver Test Modes, which	Comment Type E 4-pair not consister		nt Status X		
SuggestedRemedy				SuggestedRemedy change to four-pair	(three times)			
	create a "Force P	ower Test Mode F	Pairset Selection" field,	Proposed Response	· · · ·	e Status <b>O</b>		

10 = Alternative B powered when Force Power Test Mode enabled 01 = Alternative A powered when Force Power Test Mode enabled

Response Status 0

00 = Reserved Proposed Response

> C/ 33 SC 33.5.1.1.1a

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Schindler, Fred Seen Sim	L <b>36</b> ply	# 154	Cl 33 SC 33.5.1. Schindler, Fred		20 <i>L</i> 11 Simply	# 155
Comment Type TR Comment Status X The text, "Setting bits 11.3:2 to '11' shall allow the PSE to	o use both PSE Pinout	Alternative A and		Comment Status t cover all required opti t to provide a complete	ons for new Types.	
PSE Pinout Alternative B simultaneously." is implentation specific. Some PSE will not pov SuggestedRemedy	ver Alternatives simulta	neously.		able 33-22 requires nev raged to provide the re	w fields to support new	Types and features.
Strike the text "simultaneously" in the reference Then replace Table 33-21 11.3:2 Description, re		eserved" with "PSF		e Task Force provide t		
pinout Alternative A and Alternative B."			Proposed Response	Response Status	0	
Proposed Response Response Status <b>O</b>			C/ 33 SC 33.6.3.			# 53
C/ 33 SC 33.5.1.1.4 P 119	L <b>40</b>	# 195	Yseboodt, Lennart	Philip		
Valker, Dylan Cisco			Comment Type E	<i>Comment Status</i> e to state diagram varia		
Comment Type ER Comment Status X			is not nicely separate			
Grammar. Also, "will never be assigned" was pi "11", so suggest deleting it.	oven false by this Tasl	Force for value	SuggestedRemedy			
SuggestedRemedy			Move the whole table	e to the next page.		
Change:			Proposed Response	Response Status	0	
"The combinations '00' for bits 11.3:2 are reserv	ed and will never					
be assigned."			C/ 33 SC 33.7.4	P 9		# 79
			Yseboodt, Lennart	Philip	S	
То:			· · · · · ·			
			Comment Type <b>T</b>	Comment Status		th the exception of class
"The combination '00' for bits 11.3:2 is reserved	."		"At any static voltage 6 or class 8 PDs,	e at the PI, and any PD I not exceed P Class_F	operating condition, wi	ith the exception of class
"The combination '00' for bits 11.3:2 is reserved			"At any static voltage 6 or class 8 PDs, the peak power sha Table 33-11" TCUT min is missing "At any static voltage power shall not exce	e at the PI, and any PD I not exceed P Class_F I -2P suffix. (Line 2) e at the PI, c lass 6 or c ed PI for more than T CUT	operating condition, wi	T CUT min, as defined in g condition, the peak
"The combination '00' for bits 11.3:2 is reserved	".		"At any static voltage 6 or class 8 PDs, the peak power sha Table 33-11" TCUT min is missing "At any static voltage power shall not exce P Class at the PSE	e at the PI, and any PD I not exceed P Class_F I -2P suffix. (Line 2) e at the PI, c lass 6 or c ed PI for more than T CUT	operating condition, wi PD max for more than T lass 8 PDs in operating	T CUT min, as defined ir g condition, the peak
"The combination '00' for bits 11.3:2 is reserved	<b>.</b>		"At any static voltage 6 or class 8 PDs, the peak power sha Table 33-11" TCUT min is missing "At any static voltage power shall not exce P Class at the PSE TCUT min is missing	e at the PI, and any PD I not exceed P Class_F I -2P suffix. (Line 2) e at the PI, c lass 6 or c ed PI for more than T CUT I -2P suffix. (Line 6)	operating condition, wi PD max for more than T lass 8 PDs in operating	T CUT min, as defined ir g condition, the peak

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/generalC/ 33Page 58 of 60COMMENT STATUS: D/dispatched A/accepted R/rejectedRESPONSE STATUS: O/open W/written C/closed Z/withdrawnSC 33.7.47/7/2015 11:33:40 AMSORT ORDER: Clause, Subclause, page, lineResponse Status: O/open W/written C/closed Z/withdrawnSC 33.7.47/7/2015 11:33:40 AM

/ 33 SC 33.7.4 P 97 L 6 # 80	C/ 33         SC 33A.3         P 153         L 10         # 119           Bullock, Chris         Cisco Systems
Comment Type       T       Comment Status       X         "At any static voltage at the PI, c lass 6 or class 8 PDs in"       Extra space in 'c lass'.         SuggestedRemedy       SuggestedRemedy	Comment Type         E         Comment Status         X           The section defines Intra pair resistance unbalancenot Inter pair resistance unbalance
	SuggestedRemedy Change "Inter Pair Resistance Unbalance" to "Intra Pair Resistance Unbalance"
Change to 'class'. roposed Response Response Status <b>O</b>	Proposed Response Response Status <b>O</b>
/ 33 SC 33.8.2.1 P 134 L 20 # 1	- Cl 33 SC 33A.4 P 153 L 13 # 54 Yseboodt, Lennart Philips
ones, Chad Cisco	
omment Type E Comment Status X	Comment Type E Comment Status X Space between 3 and %.
"Contact point for enquiries about the PICS" - an approved maintenance comment changes enquiries to inquiries	SuggestedRemedy
uggestedRemedy	Make 3 % => 3%.
change enquiries to inquiries	Proposed Response Response Status <b>O</b>
Proposed Response Response Status O	
	C/ 33 SC 33A.4 P 154 L 3 # 55
1 33 SC 33.A.4 P 153 L 31 # 129	Yseboodt, Lennart Philips
hariff, Masood CommScope	Comment Type E Comment Status X
omment Type T Comment Status X	dimensions should have spaces between number and dimension. Except procent.
Draft ISO/IEC TR 29125 Ed2 and TIA TSB-184-A both have 7% maximum channel pair to pair resistance unbalance values and for consistency annex 33A should reflect the same.	SuggestedRemedy
uggestedRemedy	Change 100m to 100 m.
Change pair to pair DCRUNB from 7.5 % to 7 % globally including any calculations that use pair to pair resistance unbalance. Hopefully this may change the 1087 mA Rcont_2p_unb from 1087 mA to 1000 mA bringing the max current within the scope of IS	Proposed Response Response Status <b>O</b>
TR 29125 Ed2 and TIA TSB 184-A?	Cl 33 SC 33B P155 L1 # 66
Proposed Response Response Status O	Yseboodt, Lennart Philips
	Comment Type ER Comment Status X Change bars are missing.
	SuggestedRemedy
	Add change bars here, and also in the other Annexes where they are missing.

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn SORT ORDER: Clause, Subclause, page, line 7/7/2015 11:33:40 AM

C/ 33 SC Annex 33C P 155 L 13 # 131 C/ 79 SC 79.3.2.5 P 162 L 37 # 67 Darshan, Yair Microsemi Yseboodt, Lennart Philips Comment Status X Comment Status X Comment Type т Comment Type ER In June 2015 comment cycle D1.0 we have accepted comment #360 to adopd pages 3 and "Poweris the effective ... " 4 of darshan 01 0615.pdf. Page 4 (Annex C) was not inserted in D1.1. Space missing. SuggestedRemedy SuggestedRemedy "Power is the effective ... " To insert page 4 from http://www.ieee802.org/3/bt/public/jun15/darshan\_01\_0615\_rev\_013a.pdf to PAGE 55 after Proposed Response Response Status 0 Annex B. Proposed Response Response Status 0 CI 79 SC 79.3.2.6b P 164 L 2 # 68 Yseboodt, Lennart Philips SC 33A.3 C/ 33A P 153 L 11 # 196 Comment Type ER Comment Status X Walker. Dvlan Cisco Comment D1.0/#123 not implemented. Comment Type ER Comment Status X SuggestedRemedy "33A.3 Inter Pair Resistance Unbalance" Implement D1.0/#123. This section describes resistance unbalance within a twisted pair, not between twisted Proposed Response Response Status 0 pairs. SuggestedRemedy "33A.3 Intra Pair Resistance Unbalance" C/ 79 SC 79.5.2.1 P 172 L 20 # 2 Jones, Chad Cisco Proposed Response Response Status **O** Comment Status X Comment Type E "Contact point for enquiries about the PICS" - an approved maintenance comment SC 79.3.2.4 P 161 C/ 79 L 2 # 103 changes enquiries to inquiries Yseboodt, Lennart Philips SuggestedRemedy Comment Type TR Comment Status X change enquiries to inquiries Table 79-4 does not allow a Type 3/4 PSE/PD to identify itself. Proposed Response Response Status 0 We should define how these devices fill out the fields. SuggestedRemedy Add to section 79.3.2.4

IEEE P802.3bt D1.1 4-Pair Power over Ethernet 4th Task Force review comments

"A Type 3 or Type 4 device shall set the bits in 'power type' to (TBD)".

Proposed Response Response Status **O** 

C/ 79 SC 79.5.2.1