C/ 33 SC 33.2.7.5 Bennett, Ken	P 67 Sifos Technologi	L 19	# 1	C/ 33 Beia, Chris		33.2.6.2		P 57 STMicroelec	L 3	# 2
	omment Status X	es, III		Comment		ER	Comment S		tronics	Table 33-
There is a recommendation f TInrush in section 33.2.7.5 o recommendation against usi	that POWER_UP mode pe f the existing standard. Co ng LEGACY POWER_UP	ommensuratel in section 32.2	ly, there is a 2.4.4. This is because	Table 33-8 The meaning of YES/NO in the table is not clear enough. It would be better to repla with allowed/disallowed, or to add some explanation in the table first lines.						
legacy power-up can end PC	WER_UP mode prior to the tothe tothe tothe tothe term of the tothe term of the term of ter	ne end of PD I	nrush.	Suggested	Remed	dy				
The result of an early exit of figure 33-13, and inrush curr	ent could exceed expected	d values for a l	PD, potentially	Replace the first line of Table 33-8 with: PSE Allowed Permutations (Yes/No), PD Allowed Permutations (Yes/No)						es/No)
damaging an existing Type 1				Response			Response Si	atus C		
currents during PD Inrush in PD.	this scenario, increasing ti	ne probability (of damage to a legacy	ACCE	PT IN F	PRINCIPLE	Ξ.			
The recommendations used	in the existing standard ha	ave been appli	ed to Type 3 and Type	OBE b	oy comr	ment # 127	7 .			
4 PSE's in the draft. The sup PSE's. For reference, the ex			for Type 3 and Type 4	EZ						
However, for practical impler	nentations, it is recommen	nded that the F	POWER_UP mode on	CI 33	SC	33.2.4.6		P 41	L 51	# 3
a pair set persist for the com			E may not be able to	Beia, Chris	stian			STMicroelec	tronics	
correctly ascertain the conclu	usion of a PD's inrush beha	avior.		Comment	Туре	TR	Comment S	tatus A		PSE State Diagrai
SuggestedRemedy									m design flexibilit	
Change the text to:					le shou le alterr		ve a definition f	or a PSE wh	ich detected a P	D requesting power on
However, for practical impler				Suggested	Remed	lv				
1 and Type 2 PSE's persist f be able to correctly ascertair				00			ion of the sign	ature variable	e:	
PSE's shall remain in POWE	R_UP mode until the Tinr	ush_2P period	d in table 33-11 is met.							power on Alternative A
Proposed Response Res	sponse Status W					Type 3 or			a PD requesting	power on Alternative B
Hold open until July.				Response		PRINCIPLE	Response Si =	atus C		
Yair to present opposition.				AUOL						
				OBE b	by comr	ment # 229).			
Partial OBE by comment # 3	62.									

C/ 33 Beia, Chris	SC 33.2.6	P 57 STMicroelec	L 35 tronics	# 4	<i>Cl</i> 33 Beia, Chr	SC 33.2.7.8 istian		70 licroelectro	L 33 onics	# 6
Comment [·]	Type TR	Comment Status A		PSE Classification	Commen	t Type TR	Comment Status	A		PSE Powe
results and are	from Class 0 to e not relevant fo	<i></i>	ed for multiple-ev	ent PL classification	refer	one in the rest of to the pair set in edRemedy	the document, also f place of the PI.	or the Turi	n off time parag	raph it is needed to
Moreo	ver Type1 PSE	behavior definition must not	change from the	existing standard.	00	-	r set" in the whole pa	ragraph, t	o read:	
Suggested	-					·	•	0		
Subse Event		sful detection, a Type 1 PSE classification. Valid classifica			to VC is rec drops	off of a pair set w commended that s 1 V below the s	ith a test resistor of 3 the pair set be discha teady-state value afte	20 kOhm arged whe er the pi_p	attached to tha n turned off. TC owered variable	e time from VPort_PSE t pair set. In addition, it Off starts when VPSE e is cleared(see Figure
Response		Response Status C			33–9 the). TOff ends whe	n VPSE<=VOffmax.	The PSE r	emains in the I	DLE state as long as
	PT IN PRINCIP				avera	0 0	s the pair set is VOff tion, or normal powe			ate whenthe PSE is not
OBE b	y comment # 19	97.			Response	9	Response Status	C		
EZ					ACCI	EPT.				
C/ 33	SC 33.3.7	P 88	L 20	# 5	CI 33	SC 33.2.7	P	64	L7	# 7
Beia, Chris	stian	STMicroelec	tronics		Beia, Chr	istian	STM	icroelectro	onics	
Comment [·]	Type TR	Comment Status A		Table 33-18	Commen	t Type E	Comment Status	A		Editori
	aximum input g	uaranteed available power fo				e 33-11 17: the additiona	l information: See 33	.2.9.1.2 is	still relevant ar	nd must be maintained.
in a pe pair-se		system it would result into a	a 0.5°71.3VV/41.1	V=0.867A current per	Suggeste	dRemedy				
This va	alue is larger tha	an Icon-2P min defined at PS			Resto	ore the Additiona	l information: See 33	.2.9.1.2 in	Table 33-11 Ite	em 17
		nd Vport_PSE_2P min is: Ic g Pclass_PD to 71.0W for Cl			Response	e	Response Status	С		
	W/41.1V=0.864				ACCI	EPT IN PRINCIP	LE.			
Suggested	•				OBE	by comment #34	1			
Item: 4	e following value	put guaranteed available ave e:	erage power, Cla	ss8	EZ					
Response	PT IN PRINCIP	Response Status C								
implem	nent suggested	remedy.								
And										
Chang	e min voltage fo	or class 8 (item 1 in table) to	41.2V.							
YPE: TR/	technical requir	ed ER/editorial required GR	aeneral require	d T/technical E/editorial G/e	peneral			Comme	nt ID 7	Page 2 of 98

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

C/ 33 SC 33.2.7	P 64	L 9	# 8	C/ 33	SC 33.	2.5	P 50	L 47	# 9		
Beia, Christian	STMicroelect	ronics		Beia, Chri	Beia, Christian STMicroelectronics						
Comment Type ER	Comment Status A		Editori	I Comment	Туре Т	R C	Comment Status A		PSE Detection		
	ation is not clearly stated. The ction 33.2.9.1.2, which should				The second paragraph text was not approved to be included into the draft, so probably put in there accidentally.						
SuggestedRemedy				Suggeste	dRemedy						
Replace: Pclass <=class 4 pow The pair with highest o				Speci	ove the sent fically, Type olying powe	e 3 and Ty	pe 4 PSEs shall apply the	e detection prob	e to both pair sets prior		
With:				Response	;	Re	esponse Status C				
Applies to PD Classes	s 0-4			ACCE	EPT.						
Measured on the pair See 33.2.9.1	set with the highest current			EZ							
Response	Response Status C			C/ 33	SC 33.	3.8	P 94	L 40	# 10		
ACCEPT IN PRINCIP	LE.			Beia, Chri	stian		STMicroelectr	onics			
The pair with highest of With: Applies to Pclass <= of Measured on the pair See 33.2.9.1.2 Replace:	Pclass <=class 4 power. The pair with highest current. With: Applies to Pclass <= class 4 power. Measured on the pair set with the highest current. See 33.2.9.1.2					nere is a co s to section ere is also g sentence Ds which d	Comment Status A blumn which describes th 33.3.8 for details but the reference to 33.3.8 but r after first paragraph of 3 letect a long first class ev	ere is nothing the no explanation the 3.3.8: vent in the range	ere which gives extra here. e of TLCF_PD may		
Pclass > class 4 powe The pair with highest o					_		to draw a lower standby I MPS_PD is higher, and t		0		
With: Applies to Pclass >= o Measured on the pair See 33.2.9.1.2	class 5 power. set with the highest current.			Response ACCE		Re	esponse Status C				

CI 33	SC 33.3.2	P 76	L7	# 11	C/ 33		3.3.5.1		P 84	L 13	# 13
Beia, Chris	stian	STMicroelect	tronics		Beia, Chri	stian			STMicroeleo	ctronics	
Comment	51	Comment Status A		PD Types	Comment		TR		Status A		PD Classification
	3 and Type 4 are o int to each Type.	described in the same sente	ence and it is no	t clear what clesses are			of Type 3 describe		perate with a	max power draw o	corresponding to Class
Suggester	dRemedy				Suggestee	dRemedy	/				
Type 3 greate	er implement both	entence: operating with a maximum multiple-Event Physical Lay cation (see 33.6)and advert	yer classification	(see 33.3.5.2)and	Type : 1-Eve	3 PDs op nt and M	ultiple-E	vith a maximu vent classifica		Class signature (o class 0-3 respond to), 1, 2, or 3 in
With:					Response			Response	Status C		
	3 PDs operating w	rith a maximum power draw	corresponding	to Class 4 or greater	ACCE	PT IN P	RINCIPL	E.			
Layer	classification (see	-Event Physical Layer clas 33.6)and advertise a class	s signature of 4,	5, 6.	This is	s the 1-E	vent sec	ion			
		both multiple-Event Physic Layer classification (see 33					ing sente				
Response		Response Status C	-,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							o class 0-3 respond to accordance with the
•		,						PClass_PD.	Class signatul		
OBE t	by comment # 250).			C/ 00	SC 0)		Р	L	# 14
C/ 33	SC 33.3.7	P 87	L 28	# 12	Bustos He	eredia, Ja	iro		Würth Elekt	ronik eiSo	
Beia, Chris		STMicroelect		# 12	Comment	Туре	Е	Comment	Status A		Editoria
,		Comment Status A		Table 33-18	For ho	omogene	ous writi	ng, chose eitl	ner "pair-to-pa	ir" or "pair to pair"	when using such termn
Comment Table	51			Table 33-10	Suggested	dRemedy	/				
As def So in ⁻ for cla	fined in Table 33-7 Table 33-18 the in iss 4 it is relevant	I6a the PD Type 4 is only d put voltage definition for cla to Type 2,3; for classes 5,6	asses 0-3 is rele	vant to PD Types 1,3;	Response ACCE		RINCIPL	Response E.	Status C		
Suggested Remo		PD type column, rows 1-6	of Table 33-18 I	tem 1 as follows:	Find a	nd repla	ce all "pa	ir to pair" wit	n "pair-to-pair"		
		e per pair set, Class1 PD T e per pair set, Class2 PD T	ype 1,3		EZ						
Param Param Param Param	neter Input voltage neter Input voltage neter Input voltage	per pair set, Class2, I D P per pair set, Class4 PD T per pair set, Class5 PD T per pair set, Class5 PD T	Type 2,3 Type 3								
Param Param Param Param	neter Input voltage neter Input voltage neter Input voltage neter Input voltage	e per pair set, Class0,3 PD e per pair set, Class4 PD T e per pair set, Class5 PD T	Type 2,3 Type 3								
Param Param Param Param Param	neter Input voltage neter Input voltage neter Input voltage neter Input voltage	per pair set, Class0,3 PD per pair set, Class4 PD T per pair set, Class5 PD T per pair set, Class5 PD T	Type 2,3 Type 3								
Param Param Param Param Param Response	neter Input voltage neter Input voltage neter Input voltage neter Input voltage	per pair set, Class0,3 PD per pair set, Class4 PD T per pair set, Class5 PD T per pair set, Class5 PD T	Type 2,3 Type 3								

C/ 00 SC 0 Ρ # 15 C/ 33 SC 33.1.4.1 P 23 L 89 # 17 L Würth Elektronik eiSo Bustos Heredia, Jairo Würth Elektronik eiSo Bustos Heredia, Jairo Comment Type E Comment Status A Editorial Comment Type E Comment Status A **F**ditorial For homogeneous writing, chose either "pair-set" or "pair set" Higher power levels may require heavier guage conductors than are found in Class C/ Category 3 cabling and (more uncommonly) in some lighter guage Class D or better cable. SuggestedRemedy SuggestedRemedy Higher power levels may require heavier gauge conductors than are found in Class C/ Response Response Status C Category 3 cabling and (more uncommonly) in some lighter gauge Class D or better cable. ACCEPT IN PRINCIPLE. Response Response Status C ACCEPT IN PRINCIPLE. Replace all occurances of "pair-set" with "pair set" OBE by comment # 167 ΕZ ΕZ Р C/ 00 SC 0 1 # 16 Bustos Heredia, Jairo Würth Elektronik eiSo C/ 33 SC 33.2.4.4 P 34 L 41 # 18 Comment Type E Comment Status A **F**ditorial Bustos Heredia, Jairo Würth Elektronik eiSo For homogeneous writing chose either "Physical Layer classification" or "physical layer Comment Type E Comment Status A Editorial classification" do_detection does not yields "valid" on both pair sets SuagestedRemedv SuggestedRemedy do_detection does not yield "valid" on both pair sets Response Response Status C Response Response Status C ACCEPT IN PRINCIPLE. ACCEPT IN PRINCIPLE. Replace all occurances of "physical layer classification" with "Physical Layer" classification OBE by comment #208 as this was what was used in the existing standard. F7 ΕZ

C/ 33 SC 33 P 1 L 1 # 19 C/ 33 SC 33 P1 L1 # 20 Yseboodt, Lennart Philips Yseboodt, Lennart Philips Comment Type E Comment Status A Editorial Comment Type E Comment Status D **F**ditorial Bulkcomment to make uses of minus/dash consistent when referencing to Tables. Bulkcomment to consistently reference to ISO/IEC 11801 without year. Equations and Figures. We have references on: - page 24, line 51, Table 33-1a - page 19, line 53 - page 33, line 21, Table 33-2a - page 22, line 15 - page 55, line 26, Table 33-17 - page 22, line 19 - page 22, line 22 - page 66, line 16, Equation 33-4a - page 66. line 45. Equation 33-4a - page 23. line 10 - page 67, line 4, Equation 33-4a - page 23, line 32 - page 67, line 6, Equation 33-4a - page 102, line 27 - page 75, line 25, Table 33-13a - page 103, line 33 - page 91, line 37, Equation 33-12a - page 104, line 45 - page 94, line 39, Table 33-19a - page 104, line 49 - page 105, line 52, Equation 33-18a - page 105, line 9 - page 106, line 34, Equation 33-19a - page 107, line 17 - page 106, line 37, Equation 33-19a - page 137, line 45 - page 107, line 44, Table 33-20a - page 138, line 19 - page 108, line 4, Table 33-20b SuggestedRemedy - page 145, line 33, Equation 33A-1 Replace reference (with year) to "ISO/IEC 11801". - page 145, line 41, Equation 33A-2 Proposed Response SuggestedRemedy Response Status Z Replace minus with dash. REJECT. Response Response Status C This comment was WITHDRAWN by the commenter. ACCEPT. C/ 33 SC 33.1.4 P 22 L 10 # 21 ΕZ Yseboodt, Lennart Philips Comment Type E Comment Status A **F**ditorial Inconsistency in lineweight of table. SuggestedRemedy Make heavy line above Type 4 thin. Response Response Status C ACCEPT. ΕZ

C/ 33 SC 33.1.4 Yseboodt, Lennart	P 22 Philips	L 25	# 22	C/ 33 SC 33.1.4.1 P 23 L 8 Yseboodt, Lennart Philips	# 25
Comment Type E Reference to note 2 ir	Comment Status A	/pe 4.	Unbalance	Comment Type E Comment Status A Misspelling 'guage', two occurrences.	Editoria
SuggestedRemedy Add reference to note	2 to 0.960 in the Type 4 row.			SuggestedRemedy Replace by gauge.	
Response ACCEPT IN PRINCIP	Response Status C PLE.			Response Response Status C ACCEPT IN PRINCIPLE.	
OBE by comment #13	34.			OBE by comment # 167	
EZ				EZ	
C/ 33 SC 33.1.4 Yseboodt, Lennart	P 22 Philips	L 47	# 23	C/ 33 SC 33.2.2 P 26 L 37 Yseboodt, Lennart Philips	# 26
Comment Type E than class 4 power	Comment Status A at PSE PI		Editorial	Comment Type E Comment Status A Figure 33-1 is incorrectly numbered and subsequent Figures are off-by	Editoria. /-3
SuggestedRemedy than class 4 power	at the PSE PI			SuggestedRemedy Rename Figure 33-1 to Figure 33-4 and all figures after this should be	updated.
Response ACCEPT.	Response Status C			Response Response Status C ACCEPT.	
EZ				EZ	
C/ 33 SC 33.1.4.2 Yseboodt, Lennart	e P 23 Philips	L 30	# 24	C/ 33 SC 33.2.2 P 26 L 1 Yseboodt, Lennart Philips	# 27
Comment Type E	Comment Status A		Editorial	Comment Type E Comment Status A	Editoria
Section header is "Ch SuggestedRemedy	·			The Figures 33-1 through 33-4b should list in the figure caption if the F 4P PSE. This makes it easier to find the applicable figure.	PSE is a 2P PSE or a
Change to "Channel r	equirements"			SuggestedRemedy	
Response	Response Status C			Add appropriate 2P/4P indicator to the figure caption.	
ACCEPT.				Response Response Status C	
EZ				ACCEPT.	
				EZ	

C/ 33 SC 33.2.2 Yseboodt, Lennart	P 28 Philips	L 28	# 28	C/ 33 SC 33.2.4.6 P 42 L 42 # 31 Yseboodt, Lennart Philips
Comment Type E Figure 33-2b, connec	Comment Status A tion line to centertap of PSE s	ide transformers	Editorial is crooked.	Comment Type E Comment Status A Editor " electrical requirements of PSE Type that corresponds to the connected PD Type." E
SuggestedRemedy Make straight.				SuggestedRemedy " electrical requirements of a PSE Type that corresponds to the connected PD Type."
Response ACCEPT.	Response Status C			Response Response Status C ACCEPT IN PRINCIPLE.
EZ				Replace with:
C/ 33 SC 33.2.3 Yseboodt, Lennart	P 32 Philips	L 34	# 29	" electrical requirements of the PSE Type that corresponds to the connected PD Type."
Comment Type E	Comment Status A	T 00 0	Editorial	C/ 33 SC 33.2.4.7 P 43 L 54 # 32 Yseboodt, Lennart Philips
SuggestedRemedy	2a are not in same order as th			Comment TypeEComment StatusAEditoriFigure 33-6 to 8 are not numbered. There is a jump from 33-5 to 33-9.
Swap column Alterna Response ACCEPT IN PRINCIF	tive A(MDI) with Alternative A(Response Status C	(MDI-X) IN TADIE	33-2a.	SuggestedRemedy Rename Figure 33-9 to Figure 33-6 and update sequence thereafter.
OBE by comment # 1				Response Response Status C ACCEPT IN PRINCIPLE.
EZ				All figure numbers must be updated to be sequential. Another comment pointed out that the PSE and PD drawings restarted at 33-1 when they should have started at 33-4. this
C/ 33 SC 33.2.4.4 Yseboodt, Lennart	P 39 Philips	L 5	# 30	will fill in part of the gap.
Comment Type E Table 33-3, line thickr	Comment Status A		Editorial	LZ
SuggestedRemedy Make bold lines above	e Type 2 and Type 3 multirow	thick to the end	of the table.	
Response ACCEPT.	Response Status C			

ΕZ

C/ 33 SC 33.2.4.7 Yseboodt, Lennart	P 45 Philips	L 8	# 33	Cl 33 SC 33.2.4.7 Yseboodt, Lennart	P 46 Philips	<i>L</i> 1	# 36
Comment Type E The overview state dia	Comment Status A	the sub/state	PSE State Diagram diagrams.	Comment Type E Missing name "SEARC	Comment Status A CHING" for this Figure.		PSE State Diagram
	re number for each of the su se figure numbers inside the <i>Response Status</i> C			SuggestedRemedy Label it SEARCHING a Response ACCEPT IN PRINCIPI	Response Status C		
ACCEPT IN PRINCIPL OBE by comment # 21				OBE by comment # 21			
EZ C/ 33 SC 33.2.4.7 Yseboodt, Lennart	P 45 Philips	L 8	# 34	C/ 33 SC 33.2.4.7 Yseboodt, Lennart	P 47 Philips	L 1	# 37
Comment Type E Most of the state name	Comment Status A es have an abbreviated name abbreviation for POWER_			SuggestedRemedy	Comment Status A ERING POWER" for this Figu		PSE State Diagram
SuggestedRemedy Pick 1 name for a state Response ACCEPT.	e and do not abbreviate. Response Status C			ACCEPT IN PRINCIPL		48.	
CI 33 SC 33.2.4.7	P 45	L 8	# 35	EZ			
states. SuggestedRemedy	Philips <i>Comment Status</i> A should not mix container bo oxes (dashed) in the overvie				P 45 Philips <i>Comment Status</i> A gram figures is redundant. ages: 45, 46, 47, 48, 49.	L1	# <u>38</u> Editoria
Response ACCEPT IN PRINCIPL	Response Status C .E.			Remove outer boxes. Response ACCEPT.	Response Status C		
Dan to simplify diagran Results in no changes	n to avoid combined contain to the draft.	er boxes in futu	ire drafts.	EZ			

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn SORT ORDER: Comment ID C/ 33 SC 33.2.5.1 P 52 L 21 # 39 C/ 33 SC 33.2.6 P 57 L 1 # 42 Yseboodt, Lennart Yseboodt, Lennart Philips Philips Comment Type E Comment Status D PSF Detection Comment Type E Comment Status A Table 33-8 "The PSE shall not be damaged by up to 5 mA backdriven current over the range of V oc Small inconsistencies in Table 33-8 formatting. as specified in Table 33-4." SuggestedRemedy Voc is not a range, only lists a maximum. See yseboodt_Table_33_8_v100.pdf SugaestedRemedv Response Response Status C Change to: "The PSE shall not be damaged by up to 5 mA backdriven current over the ACCEPT IN PRINCIPLE. range of 0V to V oc as specified in Table 33-4." ΕZ Proposed Response Response Status Z REJECT. C/ 33 SC 33.2.6 P 57 L 35 # 43 Yseboodt, Lennart Philips This comment was WITHDRAWN by the commenter. Comment Type E Comment Status A PSE Classification This is text that we are not changing as part of the .3bt project. "Subsequent to successful detection, a Type 1 PSE may optionally classify a PD using 1-Event Physical This request can be filed as a maintenance request. Laver classification. Valid classification results are Classes from 0 to 8. ..." C/ 33 SC 33.2.5.2 P 53 L 2 # 40 Type 1 PSE only support and identify class 0-3. Yseboodt, Lennart Philips SuggestedRemedy Comment Type E Comment Status A Editorial Replace by: "Subsequent to successful detection, a Type 1 PSE may optionally classify a equation number 33-2 is wrong PD using 1-Event Physical Laver classification. Valid classification results are Classes from 0 to 3. ..." SuggestedRemedy Response Response Status C equation number should be 33-1 and all equations after this should decrease with 1 ACCEPT IN PRINCIPLE. Response Response Status C ACCEPT. OBE by comment # 197. ΕZ Original text says 0-4 and this is Type 1 so we shouldn't change it. There is text to say class 4 is treated as class 0. C/ 33 SC 33.2.6 P 55 L 26 # 41 ΕZ Yseboodt, Lennart Philips Comment Type E Comment Status A Autoclass Incorrect reference to Table 33-17. SuggestedRemedy Replace Table 33-17 by Table 33-7. Response Response Status C ACCEPT IN PRINCIPLE. OBE by comment # 249

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

Comment ID 43

C/ 33 SC 33.2.6.2 Yseboodt, Lennart	e P 58 Philips	L 46	# 44		C/ 33 Yseboodt,	SC 33.2.6.3 Lennart	Р 61 Philips	L 34	# 47	
Comment Type E " and the PSE meas	Comment Status A sure Iclass in the range"			Editorial	<i>Comment</i> Sectio	<i>Type</i> E n title is "(TBD) A	Comment Status A			Editoria
SuggestedRemedy " and the PSE meas	sures Iclass in the range"				Suggested Remov	•	space: "Auto class"			
Response ACCEPT.	Response Status C				Response ACCE	PT IN PRINCIPL	Response Status C E.			
EZ					Remo	ve TBD but do no	ot add space.			
C/ 33 SC 33.2.6.2 Yseboodt, Lennart	P 58 Philips	L 47	# 45		CI 33 Yseboodt,	SC 33.2.6.3 Lennart	P 61 Philips	L 34	# 48	
	Comment Status A his indicates the PD will pefor spelling + Auto class	n Autoclass. (se		Editorial	Suggested	omment to replace	Comment Status R ce "Autoclass" with "Auto cla	ss" in this section.		Editorial
33.3.5.3)." Response	ACS max this indicates the PI Response Status C	D will perform Au	to class. (see		Response REJE(Response Status C			
ACCEPT IN PRINCIP Change peform to per All references should I		another comme	nt (OBE, comme	ent#		y comment # 14. ce all "Auto class	2 " occurances with "Autoclass	5"		
142). EZ					C/ 33 Yseboodt,	SC 33.2.6.3 Lennart	P 61 Philips	L 44	# 49	
X 33 SC 33.2.6.2 'seboodt, Lennart	P 59 Philips	L 52	# 46		Comment No ref	<i>Type</i> E erence in text to	Comment Status A			Editoria
Comment Type E Forget a period at the SuggestedRemedy Put a period. Response ACCEPT.	Comment Status A e end of the sentence. Response Status C			Editorial	conne perioc measu	reference to Tab "PSEs imple cted PD througho bounded by T A ured from the trar	le 33-10a at line 41: menting Autoclass shall mea out the .UTO_PSE1 and T AUTO_P isition of the POWER_UP or state to the POWER_ON sta	SE2, defined in Tab		the
EZ					Response ACCE	PT.	Response Status C			

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

CI 33 SC	33.2.7	P 64	L 11	# 50	C/ 33	SC 3	3.2.7.4	P 66	L 19	# 52
Yseboodt, Lenn	art	Philips			Yseboodt,	Lennart		Philips		
Comment Type Inconsistent		Comment Status A		Editorial	Comment T Format		E or in the f	Comment Status A ormula 33-4a		Editorial
SuggestedRem	edy				Suggested	Remedy	,			
PD^3" tc "[DC MPS cu	rrent when measured over a prent when measured over a				- Rei - A b he A is v	move stra it weird: 1 isible.	"for Type 4" non-italic and m aight brackets [] from formula here is an invisible 'A' as dim triangle/A.		
PD^3"					Response			Response Status C		
С	hange item	17a:			ACCE	PT.				
"[PD^3"	DC MPS cu	rrent when measured over a	pair set connect	ed to dual signature	EZ					
to "[PD^3"		rrent when measured over a	oair set connect	ed to a dual signature	C/ 33 Yseboodt,		3.2.7.4	P 66 Philips	L 49	# 53
"[measured, c to "[connected t) DC MPS cu	17b: rrent when total sum of both p o single signature PDs^4" rrent when the total sum of bo octed to a single signature PD	oth pairs with the		Suggested	on numt	,	Comment Status A is duplicate with the equation Response Status C	n on line 19 of th	Editorial he same page.
Response		Response Status C			•	PT IN PI	RINCIPLE	•		
ACCEPT.							-			
CI 33 SC	33.2.7.4a	P 66	L 32	# [54	Chang	e secon	d equatio	n 33-4a (line 49) to equation	33-4b.	
Yseboodt, Lenn		P 66 Philips	L 32	# 51	Chang	e referei	nce to eq	uation 33-4a on pg 67 line 4 t	to equation 33-4	4b.
Comment Type "Pair to Pair		Comment Status A		Editorial	EZ					
SuggestedReme "pair to pair"										
Response ACCEPT IN	I PRINCIPL	Response Status C E.								
Replace wit	h "pair-to-p	air"								
EZ										

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

C/ 33 SC 33.2.7.4		L 49	# 54	C/ 33 SC 33.2.7.5		L 23	# 57
/seboodt, Lennart	Philips			Yseboodt, Lennart	Philips		
	Comment Status A Pair_max (ohm) <= hould not be there. sion is missing after the closing	a accolade bracket	Editorial	Comment Type E No reference in text to SuggestedRemedy	Comment Status A o equation 33-5		Editoria
SuggestedRemedy - Remove ohm from I	-	-		POWER_UP. The ma inrush current source template in Figure	shall limit the maximum currer aximum ed by the PSE per pair set sha		0
ACCEPT.				33-13." By:			
EZ C/ 33 SC 33.2.7.4 Yseboodt, Lennart	4a P 66 Philips	L 53	# 55	"The PSE s POWER_UP. The ma	ed by the PSE per pair set sha		0
Comment Type E "Pair_max" should no	Comment Status A		Editorial	Response ACCEPT.	Response Status C		
SuggestedRemedy "Pair_max" with uprig	ght characters			EZ			
Response ACCEPT.	Response Status C			C/ 33 SC 33.2.7.5 Yseboodt, Lennart	5 P 67 Philips	L 35	# 58
EZ					Comment Status A ses 1-Event physical layer cla		
CI 33 SC 33.2.7.4		L 1	# 56	ms settling time, sha classification."	Il power up a class 4 PD as if	it used 2-Event p	ohysical layer
Yseboodt, Lennart Comment Type E	Philips Comment Status A		Editorial	SuggestedRemedy Replace 2-Event by N	/lultiple-Event.		
"Pair_min" should no	t be italic			Response	Response Status C		
SuggestedRemedy "Pair_min" with uprig	ht characters			ACCEPT.			
Response ACCEPT.	Response Status C			EZ			
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: Comment ID

C/ 33 SC 33.2.7 Yseboodt, Lennart	.7 <i>P</i> 68 Philips	L 48	# 59	C/ 33 Yseboodt,	SC 33.3.2 Lennart	P 75 Philips	L 42	# 62
fromany r SuggestedRemedy	Comment Status A omany pair set that exceeds the nissing space. om any pair set that exceeds th <i>Response Status</i> C IPLE.		·	Comment In Tabl Suggested Chang Response ACCEI	Editorial xist.			
OBE by comment # EZ	148			EZ	-			
suffix. SuggestedRemedy	Philips Comment Status A parameters TLIMmin, TCUTmir min-2P and TCUTmax-2P. Response Status C IPLE.	L 27	# 60 Editorial are missing the -2P	and Da Layer events 2-Eve Suggested "Type : and Da Layer all clas Response	Type E 2 PDs implement ata Link classification (se ." nt not correct. <i>Remedy</i> 2 PDs implement ata Link classification (se s events."	P 76 Philips Comment Status A t both Multiple-Event Physica ee 33.6) and advertise a 2-Ev t both Multiple-Event Physica ee 33.6) and advertise a Multi Response Status C	ent class signat al Layer classific	ure of 4 during all class ation (see 33.3.5.2)
Cl 33 SC 33.2.9 Yseboodt, Lennart Comment Type E There is an enlarged Line 1 an SuggestedRemedy Consistent spacing. Response ACCEPT. EZ	Philips <i>Comment Status</i> A d space between section numbe	L 1	# <u>61</u> Editorial	ACCEI EZ	РТ.			

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

	0.70	1.0	# [24		SC 00 0 4	Daa	1.0	# 07
Cl 33 SC 33.3.2 Yseboodt, Lennart	P 76 Philips	L 8	# 64	C/ 33 Yseboodt,	SC 33.3.4	P 82 Philips	L 9	# 67
Comment Type E "multiple-Event" captaliz	Comment Status A		Editorial	Comment		Comment Status A		Editoria
SuggestedRemedy "Multiple-Event"				Suggested Chang	je			
Response ACCEPT.	Response Status C				urements made tion process."	on signature is a resistance during the	calculated from t	wo voltage/current
EZ	0.70		# [25]	"The d made	during the	re is a resistance calculated	from two voltage	current measurements
Cl 33 SC 33.3.3.4 Yseboodt, Lennart	P 78 Philips	L 46	# 65		•	defined in Equation 33-8."		
Comment Type E	Comment Status A		PD State Diagram	Response ACCE		Response Status C		
	t the Type 2 PD from drawin	g more than inru	Ũ	EZ				
SuggestedRemedy				CI 33	SC 33.3.5	P 83	L 43	# 68
Change to "T Delay" to '	"Tdelav-2P"			Yseboodt,	Lennart	Philips		
Response	Response Status C			Comment	51	Comment Status R		Editorial
ACCEPT IN PRINCIPLE	•			"А Тур	be 1 PD may imp Bad section	plement any of the class sign reference.	atures in 33.3.5	and 33.6."
OBE by comment # 112	2.			Suggestea	,			
C/ 33 SC 33.3.3.4a	P 79	L 12	# 66	"А Тур	be 1 PD may imp	plement any of the class sign	atures in 33.3.5.	1 and 33.6."
Yseboodt, Lennart	Philips	L 12	# 00	Response		Response Status C		
Comment Type E	Comment Status A		Editorial	REJEC				
No space between "Typ	e 3, 4MPS"			We are	e not changing	Type 1 behavior.		
SuggestedRemedy "Type 3, 4 MPS"				This co	ould be filed as	a maintenance request.		
Response ACCEPT.	Response Status C							
EZ								

C/ 33 SC 33.3.5.2 Yseboodt, Lennart	P 84 Philips	L 47	# 69	C/ 33 Ysebood	SC 33.3.5.3 , Lennart	e P 86 Philips	L 31	# 71
Comment Type E No reference in text to	Comment Status A		Edito		t <i>Type</i> E ference in text to	Comment Status A		Editoria
class_sig_A during DO_CLASS_EV1 and DO_CLASS_EV4,	menting Multiple-Event physic d DO_CLASS_EV2 and class d DO_CLASS_EV6, as define	_sig_B during DC	D_CLASS_EV3,	Inser defin <i>Respons</i>	"PDs implei ed by Table 33-1	Response Status C	orm to the timing	requirements as
Response ACCEPT.	Response Status C			Add I EZ	eference to table	e 33-17a after Tacs on line 23	and after Tauto_	pd2 on line 30.
PD, multiple SuggestedRemedy	Philips Comment Status A D shall conform to the electric			Suggeste	t Type E 33-17a lists only <i>dRemedy</i> me to Auto class	P 86 Philips Comment Status A y timing parameters, but is titl s PD timing requirements Response Status C	L 33 ed "Auto class El	# <u>72</u> <i>Editorial</i> lectrical Requirements".
ACCEPT. EZ				C/ 33 Ysebood	-	P 88 Philips	L 1	# [73
				rows Suggeste Make Respons ACC	ble 33-18, Items <i>dRemedy</i> field fit with all r	Comment Status A 4, 8, 9, 11 the Additional info rows of the corresponding iten <i>Response Status</i> C ent # 152.	-	Table 33-18 covers part of the
				EZ				

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

Cl 33 SC 33.3.7 Yseboodt, Lennart	P 88 Philips	L 47	# 74	C/ 33 SC 33.3.7 Yseboodt, Lennart	7.4 <i>P</i> 91 Philips	L 25	# 76
Comment Type E Table 33-18, Item 8 fo SuggestedRemedy	Comment Status A or Type 3/4 empty.		Editorial		Comment Status A t to equation 33-11. or example, inconsistent with th -10.	e paragraph abov	PD Power
Insert TBD. Response ACCEPT. EZ	Response Status C			SuggestedRemedy Change "The max the following equati To	kimum I Port value for all opera ion:"	ting V Port_PD ra	nge shall be defined by
C/ 33 SC 33.3.7 Yseboodt, Lennart	P 88 Philips	L 50	# [75	"The max Equation 33-11" <i>Response</i>	ximum I Port value for all opera Response Status C	ting V Port_PD ra	nge shall be defined by
Comment Type E Table 33-18, Item 9 fo SuggestedRemedy Insert TBD.	Comment Status A or Type 3/4 empty.		Pres: Table 33-18	ACCEPT IN PRINC Merge with result o EZ			
Response ACCEPT IN PRINCIF	Response Status C PLE.			CI 33 SC 33.3.8 Yseboodt, Lennart	B P 94 Philips	L 44	# 77
OBE by comment # 1	14.			Comment Type E "PDs using auto cla SuggestedRemedy "PDs using Auto cla Response ACCEPT IN PRINC	Response Status C		Editorial
				OBE by comment # Replace with "Auto EZ			

C/ 33 SC 33.3.8 Yseboodt, Lennart	P 94 Philips	L 49	# 78	C/ 33 Yseboodt,	SC 33.4.3 Lennart	Р 98 Philips	L 18	# 80
Comment Type E Annex for MPS is still 1	Comment Status A		Editorial	Comment "is the	frequency in M	Comment Status A Hz from 1.00 MHz to 100. MH o after 100. MHz	z for a 100 Mb/s	<i>Editorial</i> or greater PHY"
Response ACCEPT IN PRINCIPL Add below ine 49:	noved before publication: In		on MPS behavior and	Suggested Chang PHY" Response ACCE EZ	Remedy le to "is the frequ	iency in MHz from 1.00 MHz to Response Status C	o 100.0 MHz for	a 100 Mb/s or greater
EZ				<i>Cl</i> 33 Yseboodt,	SC 33.4.6 Lennart	P 101 Philips	L 46	# 81
Cl 33 SC 33.4.1 Yseboodt, Lennart Comment Type E Line 24 says "Insert Ta boundary. SuggestedRemedy Insert table in section 3 Response ACCEPT IN PRINCIPL OBE by comment # 30 EZ	Response Status C E.	L 24 he Table is move	# 79 <i>Editorial</i> ed beyond the section	referen Suggested Chang to the and re specifi 1) and To "For 10 differe and re conditi	sing use of Ed_ nce to Eq. 33-17 <i>IRemedy</i> if For 10GBA differential trans eceive pairs sha ed in 33.4.4, ited d item 2)." DGBASE-T, the ntial transmit	SE-T, the coupled noise, E d smit Il not exceed the following rea m coupled noise, E d_out in Fig Il not exceed the requirements	_out in Figure 33 juirements under ure 33-22, from a	3-22, from a PSE or PD r the conditions a PSE or PD to the
				Response		Response Status C		
				ACCE EZ	٢١.			

C/ 33 SC 33.4.6 Yseboodt, Lennart	Р 101 Philips	L 46	# 82	C/ 33 SC 33.5.1.1.1a P 110 L 43 # 85 Yseboodt, Lennart Philips
Comment Type E Equation 33-17a uses	Comment Status A svariable name Edout.		Editorial	Comment Type E Comment Status A Edito Poweer is spelled wrong
SuggestedRemedy Change to "Ed_out" to	o match text and Figure 33-22.			SuggestedRemedy Change to "power"
Response ACCEPT.	Response Status C			Response Response Status C ACCEPT IN PRINCIPLE.
EZ				OBE by comment # 154.
C/ 33 SC 33.4.6	P 101	L 46	# 83	EZ
Yseboodt, Lennart Comment Type E Missing description of	Philips <i>Comment Status</i> A f what 'f' is (inconsistent with of	ber formulas, ec	Editorial	C/ 33 SC 33.5.1.1.4 P 111 L 23 # 86 Yseboodt, Lennart Philips
SuggestedRemedy Add description such	,			Comment Type E Comment Status A Edito "Bits 11.3:2 report the supported PSE Pinout Alternative specified in 33.2.1." Pinout is not specified there.
Response ACCEPT.	Response Status C			SuggestedRemedy change to "Bits 11.3:2 report the supported PSE Pinout Alternative specified in 33.2.3."
EZ				Response Response Status C
Cl 33 SC 33.4.9.1 Yseboodt, Lennart	.1 <i>P</i> 106 Philips	L 4	# 84	EZ
Comment Type E Dimension of frequen	Comment Status A and the status \mathbf{A} is in equation "1 <= f <= 250) MHz" (twice)	Editorial	
SuggestedRemedy remove "MHz" in equ	ation consistent with Eq 33-18.			
Response ACCEPT.	Response Status C			
EZ				

C/ 33 SC 33.5.1.	.2.12 P 114	L 31	# 87	C/ 33 SC 33A.3	P 145	L 37	# 90
'seboodt, Lennart	Philips			Yseboodt, Lennart	Philips		
Comment Type E "When read as a one	Comment Status A e, bit 12.0 indicates that the PS	E supports the o	Editorial	Comment Type E Rch\ max and Rch\	Comment Status A min uses a backslash on line 3	37 and 45.	Editoria
PSE Pinout Alternative (see 33.2 Pinout is not specifie	2.1)"			SuggestedRemedy Change to Rch_max	-		
uggestedRemedy				Response	Response Status C		
change to				ACCEPT.			
When rea" control which PSE Pi Alternative (see 33.2		hat the PSE supp	orts the option to	EZ			
Response	, Response Status C			CI 33 SC 33A.3	P 145	L 33	# 91
ACCEPT.				Yseboodt, Lennart	Philips		
				Comment Type E	Comment Status A		Editoria
EZ					resistance unbalance is define	ed by Equation (3	33a-1):"
33 SC 33.6.3.4	.4 <i>P</i> 119	L 41	# 88		33a-1) reference is wrong		
seboodt, Lennart	Philips			SuggestedRemedy	/		
comment Type E	Comment Status A		Editorial	Change to Equation	. ,		
"Value^a" has wrong	g footnote reference, 3 times in	this table 33-23		Response	Response Status C		
SuggestedRemedy change to "Value^1"				ACCEPT. EZ			
Response	Response Status C			C/ 33 SC 33A.3	P 145	L 41	# 00
ACCEPT.				Yseboodt, Lennart	P 145 Philips	L 41	# 92
EZ				Comment Type E	Comment Status A		Editoria
SC 33A.3	P 145	L 37 a	# 89		resistance difference is define 33a-2) reference is wrong	d by Equation (3	3a-2):"
seboodt, Lennart	Philips			SuggestedRemedy			
comment Type E	Comment Status A		Editorial	equation (33A-3)			
	used in 33a-2 and 33a-3			Response	Response Status C		
uggestedRemedy 33A-2 and 33A-3				ACCEPT.			
esponse ACCEPT.	Response Status C			EZ			
AUGEPT.							
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: Comment ID

Cl 79 SC 79.3.2 Yseboodt, Lennart	2 P 151 Philips	L 28	# 93	Cl 79 SC 79 Yseboodt, Lennart	P 148 Philips	L 1	# 96
Comment Type E	Comment Status A to add Auto class capability		Autoclass	Comment Type ER Comme Change bars are missing for char They only are present for	ent Status A		Editoria
Add editors note: A Response ACCEPT. EZ	uto class capability in LLDP to be <i>Response Status</i> C	e added.		SuggestedRemedy Add change bars to clause 79 for Response Respons ACCEPT. EZ	all changes since se Status C	802.3-2012.	
Cl 33 SC 79.3.2 Yseboodt, Lennart Comment Type E	2.5 P 154 Philips Comment Status A	L 13	# [94 Editorial	C/ 33 SC 33.2.0a Yseboodt, Lennart	P 24 Philips ent Status A	L 33	# <u>97</u> PSE Types
SuggestedRemedy	wer" on line 13 and 37 ower" on line 13 and 37 <i>Response Status</i> C			Table 33-1a, incorrect implementa SuggestedRemedy See yseboodt_table_33_1a_v100 Response Response ACCEPT IN PRINCIPLE. OBE by comments # 277 and # 2	.pdf se Status C	D0.4/#38	
Cl 33 SC 33A Yseboodt, Lennart	P 145 Philips	L 1	# 95	EZ			
They onl SuggestedRemedy Add change bars to	Comment Status A hissing for changes in the text. y are present for editors notes.	e 802.3-2012.	Editorial	IPort = Output current (see 33.2.7 Other parts of the text refer to Ipo		L 7 e referenced 33.2	# <u>98</u> .7.6
Response ACCEPT. EZ	Response Status C			SuggestedRemedy Rename Iport to Iport_2P and put Response Respons ACCEPT. EZ	a note to also cha se S <i>tatus</i> C	ange the name in	the state machine.

C/ 33 SC 33.2.4 Yseboodt, Lennart	4.4 P 39 Philips	L 5	# 99	C/ 33 Yseboodt,	SC 33.2.6 Lennart	P 56 Philips	L 4	# 101
Comment Type T A Type 4 PSE is di must implement 4F We do not want to Currently Table 33- restricting it to Clas SuggestedRemedy	Comment Status X stinct from a Type 3 PSE in way prevent Type 4 PSEs from provi 3 requires a Type 4 PSE to hav s 7 and 8. rents 1, 2 and 4 also for Type 4. <i>Response Status</i> W nnart Presentation.	iding also power	below class 7.	Comment The co Unless larger The pa Suggested Remo Response ACCE	Type T onstruct "xx W s a PSE is prov or equal than a art "or Ptype as <i>Remedy</i> ve "or Ptype as PT IN PRINCII	Comment Status A or Ptype as defined in Table 33 riding more class events than it any class power valid for its Typ s defined in Table 33-11 whiche Response Status C	ts Type would a be. ever is less" has	llow, Ptype is always no effect.
C/ 33 SC 33.2.0 Yseboodt, Lennart Comment Type T	Philips Comment Status A	L 4	# 100 PSE Classification	Replac C/ 33	ce "less" with " SC 33.2.6	ever" in all entries. lower" in all entries.	L 27	# 102
Note 2 says "This i The output level at	umn title is "Minimum power lev s the minimum power at the PSI the PSE PI can be anything bet yould seem to imply that PSE mu	E PI."	Pclass.		<i>Type</i> T le 33-8. Type 3	Philips Comment Status A 3, 4 PDs, intersection of 'Multiples are not required to support DI		Table 33 o DLL'.
	um supported power level at the nis is the minimum supported po				Table footnote	'2' there that says: that is limited to Class 0-3 pow	er levels may or	nit DLL support".
Response ACCEPT.	Response Status C			Response ACCE	PT IN PRINCII	Response Status C PLE.	ŗ	
				"Any F	PD that is limite	'2' there that says: d to Class 0-3 power levels ma		port".

Add footnote '2' to intersection of 'Multiple-event' and 'No DLL'.

CI 33 SC 33.2.6	P 57	<i>L</i> 31	# 103	C/ 33	SC 33.2.6.2	P 59	L 52	# 105
Yseboodt, Lennart	Philips			Yseboodt,	Lennart	Philips		
Comment Type T	Comment Status A			Comment	Туре Т	Comment Status A		PSE Classification
The note says "A Typ event physical layer c This is actually true fo		s 3 power levels	can be limited to 1-	Mark_	EV_LAST if the o	p MARK_EV_4 and CLASS_ class signature detected duri	ng CLASS_EV4	
SuggestedRemedy				This w	as not updated a	after the 75W class was adde	ed.	
Replace note by:				Suggested	Remedy			
"A Type 3 PSE that is layer classification."	limited to Class 0-3 power le	vels can be limite	d to 1-event physical			p MARK_EV_4 and CLASS_ class signature detected duri		
Response	Response Status C			Response		Response Status C		
ACCEPT IN PRINCIP	LE.			ACCE	PT IN PRINCIPL	E.		
OBE by comment # 2	60			OBE b	y comment # 29	2		
EZ				EZ				
C/ 33 SC 33.2.6	P 57	L 9	# 104					
Yseboodt, Lennart	Philips							
Comment Type T	Comment Status A		Table 33-8					
	t content change in Table 33- PDs have been swapped.	8 compared to the	e old table format.					
SuggestedRemedy								
Change Type 1, PD, 1 Change Type 1, PD, 1	Multiple-event, No-DLL from N Multiple-event, DLL from NO t None, No-DLL from YES to N None, DLL from YES to NO	o YES						
See yseboodt_Table_	_33_8_v100.pdf							
Response	Response Status C							
ACCEPT IN PRINCIP	PLE.							
Make edits as sugges	sted, but change yes and no to	o valid and invalio	respectively.					

Cl 33 SC 33 Yseboodt, Lennart	.2.7	P 62 Philips	L 1	# 106	C/ 33 Yseboodt	SC 33.2 , Lennart	. 7 P (Philip		30	# 107
sets power up. A PD cannot ea	not have a specific sily measure if it is g	getting 2P or 4F	Power.	PSE Power tween bringing the pair e the inrush, or exceed	It is d This r	33-11, Item ouble define makes the va	Comment Status 12 defined Ptype. d for Type 3, once for 2P alue of Ptype ambiguous	mode and once		PSE Power
the 2P power lir		.gou.o., a o			Suggeste Remo	-	ariant for Type 3 PType a	nd also the corre	esponding not	ie.
SuggestedRemedy	parameter Tpud (T	Pair sat Power	up dolov) with a	maximum value of	Proposed REJE	Response	Response Status	Z		
50ms.			,	h pair sets into inrush	This	comment wa	s WITHDRAWN by the c			
Response ACCEPT IN PR	,	Status C			Lenna	art will resub	mit with better suggested	remedy.		
Add new row "1	b" to Table 33-11.									
Symbol: Tpud Unit: s Min: Blank Max: TBD PSE Type: 3, 4	ver up delay between nation: See 33.2.7.		single-signature l	PDs						
Add:										
"Editor's Note to be added in this		e publication: T	iming requireme	nts for 4-pair power to						
to beginning of	section 33.2.7.5									

C/ 33 SC 33 /seboodt, Lennart	.2.7.2 <i>P</i> 69 Philips		# 108	C/ 33 Yseboodt, Le	SC 33.2.7.4	P 66 Philips	L 19	# 109
Comment Type	·		PSE Power	Comment Ty		Comment Status A		PSE Powe
"The minimum F transient lasting	PD input capacitance allows less than	the PD to operate for	any input voltage	,	ctor calculation	n uses Rchan. Therefore th	e result of K is no	
30 us. Transien	s lasting more than 250 us	nall meet the V Port_	PSE-2P specification."	SuggestedRe	emedy			
This statement i	s not true for the higher pow	er classes.		The form dimensio		reworked to use a calculati	ion based on Rch	nan/Rch to be properly
SuggestedRemedy				ainensio		note to mark this as todo.		
Type 3: 15us	red): num time (30us) to:			Response ACCEPT	IN PRINCIPL	Response Status C .E.		
Type 4: 10us				Change I	ast sentence	of definition of K on line 15	to:	
Option 2: Increase the min Type 3: 10uF Type 4: 15uF (double that for	nimum capacitance of PDs t DS PDs)	D:		4 system	that operates	is based on a curve fit and as a on by equation 33-4a."	is dimensionless	s, for a Type 3 and Type
Response	Response Status	с						
ACCEPT IN PR	INCIPLE.							
This should be or remedy.	liscussed by the group as th	ere are two options lis	sted in the suggested					
Add "Editor's No added to this se increasing Cpor	ote to be removed before put ction that requires PDs to rid t."	lication: A dropout s le out PSE transients	pecification needs to be . This is in place of					
to section 33.3.7	7.6							
Change text in 3	3.2.7.2 to:							
voltage transien	PD input capacitance allows t lasting less than s lasting more than 250 us s							
Add Type 3 and	Type 4 to line 25 on page 6	5.						

Cl 33 SC 33.2.7.7 Yseboodt, Lennart	7 P 68 Philips	L 43	# 110	C/ 33 Yseboodt,	SC 33.3.1 Lennart	Р 74 Philips	L 41	# 111
upperbound template D1.0 text says this:	a single signature PD, a Type		Ū.		nent D0.4/#105 p 3 and Type 4 PE	Comment Status A artially implemented. Is shall be capable of acce	pting power on eith	<i>Editorial</i> ner or both of the pair
the current draw exc shall remove power f	eeds the "PSE lowerboun				be capable of ac	os shall be capable of acce cepting power on both pair <i>Response Status</i> C		ner pair-set and
any pair set that exce	ound templateâ€⊡and shall rei			CI 33 Yseboodt, Comment		P 78 Philips Comment Status A	L 46	# 112 PD State Diagram
SuggestedRemedy Note: remedy does 3 - insert space betwee - add references to F - change "exceeds" to "When connected to from both pair sets if the current draw exce Figure 33-14, on eith draw equals or exceed	en "fromany" Fig 33-14 and Eq 33-7 o "equals or exceeds" a single signature PD, a Type eeds the "PSE lowerbound ter er pair set, and shall remove j eds the "PSE upper bound ter a dual signature PD, a Type 3	a 3 or Type 4 PSE nplate"⊡defined in power from both p nplate" on either p	may remove power Equation 33-7 and air sets if the current air set.	PSE's inrusl This a Suggested "A tim the PS inrusl	n period; see T d also applies to Ty d <i>Remedy</i> er used to prever SE's n period; see T d OBEs the editoria	ht the Type 2 PD from drave elay in Table 33-18." ape 3 and 4. ht a Type 2, 3, or 4 PD from elay-2P in Table 33-18." al comment to change T de <i>Response Status</i> C	n drawing more tha	ŭ
the "PSE lowerbound exceeds the "PSE up Power may be remov	d template"and shall remove operbound template" ved from both pair sets any tin			CI 33 Yseboodt, Comment		P 86 Philips Comment Status A	L 35	# <u>113</u> Editorial
Response ACCEPT IN PRINCII OBE by comment #					for Item 2 (T_Aut ds.	o_PD1) and Item 3 (T_Au	o_PD2) are in milli	sec and should be in
				Chang <i>Response</i> ACCE EZ		Item 2 and 3 in Table 33- ² Response Status C	7a	
	ired ER/editorial required GF dispatched A/accepted R/rej nt ID				d Z/withdrawn	Con	ment ID 113	Page 26 of 98 6/19/2015 9:18:

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C/ 33 SC 3: Yseboodt, Lennart	6.3.7 <i>P</i> 88 Philips	L 48	# 114	C/ 33 SC 33.3.7 Yseboodt, Lennart	P 89 Philips	L 15	# 115
Comment Type The Cport(min) well as in 4P m for Type 1 and be compliant w powered over 4 SuggestedRemedy Since PDs can cannot change Type 1,2 in 2P Type 3,4 in 2P Type 3,4 in 4P Type 3,4 in 4P Change the nat Response ACCEPT IN PF For item 9 in Ta Make name Cp Make PSE type Leave min valu Add text to beg Type 1, Type 2 for Cport as de	T Comment Status A for Type 1 and 2 was 5uF. This number 2. By changing Cport to Cport_2P, nen P. not change their capacitance wheth Type 1, 2 I would suggest this: mode => $5uF(min)$ at the PI (total) mode => $5uF(min)$ at the PI (total) mode => $5uF(min)$ at the PI (total) mode, Single Sig => $5uF(min)$ on each mode, Dial Sig => $5uF(min)$ on each ne Cport_2P back to Cport. <i>Response Status</i> C INCIPLE. ble 33-18: ort. 1,2,3,4	a Type 2 PD with her they are 4P or he PI (total) ach pair set	5uF would no longer 2P powered and we meet the requirement	Comment Type T Von and Voff are T SuggestedRemedy	Comment Status A BD for Type 3 and 4. to pick new numbers for the ne Type 1-4.	w Types.	Table 33-18

C/ 33 SC 33.3.7.4 Yseboodt. Lennart	P 91 Philips	L 5	# 116	<i>CI</i> 33 Yseboodt, Le	SC 33.3.7.4	P 91 Philips	L 22	# 117
Yseboodt, Lennart <i>Comment Type</i> T <i>C</i> "At any static voltage at the exceed P Class_PD max for more Peak operating power shall not exceed P Peak m "Ripple current content (I F allowed if the total input power is less than or equa This disallows extended po <i>SuggestedRemedy</i> "At any static voltage at the 6 or class 8 PDs, the peak P Class_PD max for more Peak operating power shall not exceed P Peak m	than T CUT min, as definax." Port_ac) superimposed of al to P Class_PD max." ower. This is the text des e PI, and any PD operatin power shall not exceed than T CUT min, as defi	ined in Table 33- on the DC curren scription of Figure	<i>PD Power</i> peak power shall not 11 and 5% duty cycle. t level (I Port_dc) is 33-18.	following Iportma This dis <i>SuggestedR</i> "The ma operating shall be Iportma "The ma range, shall be	pe T kimum I Port equation: c = Pclass_PI allows extend allows extend cemedy kimum I Port y V Port_PD r defined by th c = Pclass_PI ximum I Port c = Pclass_PI ximum I Port	e following equation: D / Vport_PD-2P (A) (33-11) value for all PDs in Class 6 c e following equation: D / Vport_PD-2P(min) (A) (3	ent. e in Class 6 or Cl " or Class 8, over th 3-11a)	ass 8, over the
"At any static voltage at th power shall not exceed PClass at the PSE PI for r cycle. Peak operating powe shall not exceed Ipeak * V	nore than T CUT min, as er			Pclass_I Response	D-2P(min) is t	aximum DC and RMS input of he minimum specified input v imum power, P Class_PD ma <i>Response Status</i> C LE.	oltage at PD PI	Table 33-18"
"Ripple current content (I f allowed if the total input power is less than or equa class 8 PDs."	,			operating shall be	y V Port_PD r defined by th	value for all PDs except those ange, e following equation: D / Vport_PD-2P (A) (33-11)		ass 8, over the
Response R ACCEPT.	esponse Status C			range, shall be Iportma where Iportmay Vport_P	defined by th c = TBD (A) is the m D-2P(min) is t	value for all PDs in Class 6 o e following equation: (33-11a) naximum DC and RMS input o he minimum specified input o imum power, P Class_PD ma	current roltage at PD PI	

C/ 33 SC 33.4.1.1.2 Yseboodt, Lennart	P 95 Philips	L 45	# 118	C/ 33 Yseboodt,	SC 33.4.9.1 Lennart	.4d F Phi	9 107 lips	L 45	# 120
Comment Type T	Comment Status A		Editorial	Comment [·]	Type T	Comment Statu	is D		AE
Bulk comment to change superseded by IEC 6236 In the following places: - page 95, line 45 - page 95, line 49 - page 95, line 50 - page 95, line 53 - page 96, line 34 - page 97, line 22	e reference to IEC 60950-1 68-1.	:2001 which is oເ	itdated and	values using result i PSAN This n Suggested	determined the equations s n EXT loss value number of 67dB <i>Remedy</i>	shown in Table 33-2 es greater than 67 df does not seem to n) Da for all sp 3 shall reve	pecified frequent	Il meet or exceed the cies. Calculations that ent of 67 dB minimum.
SuggestedRemedy Reference to IEC 60950 60950-1.	-1 (without date) and to IEC	62368-1 which	is the successor of IEC	Proposed I REJEC	Response	hever way is right. Response Statu	s Z		
Response ACCEPT.	Response Status C					ITHDRAWN by the s comment. Why do			able 33-2022
C/ 33 SC 33.4.9.1.3 (seboodt, Lennart	P 107 Philips	L 10	# 119	C/ 33	SC 33.6.3.2		2116	L 4	# 121
	•		450	Yseboodt,	Lennart	Phi	lips		
Comment Type T	Comment Status A		AES	Comment	Type T	Comment Statu	is A		DI
SuggestedRemedy change to " f<= 500 MH;		SUU MHZ, Seems	S Inconsistent.	For PD Type 4 negotia	D_DLLMAX_VA 4 has a maximu ated.	LUE, class 8 is liste um power of 99.9W, / way to negotiate hi	d as 900. but via phy		
Response ACCEPT.	Response Status C			Suggested	Remedy				
ACCEPT.				00	,	_VALUE / Class 8 =	= 999		
EZ				Response ACCEI	PT.	Response Statu	s C		

Cl 79 SC 79.3.2.6a	P 155	L 4	# 122		C/ 33	SC 33.2.3	P 32	L 31	# 124
Yseboodt, Lennart	Philips				Yseboodt,	Lennart	Philips		
Comment Type T	Comment Status A			DLL	Comment	Туре Т	Comment Status A		Editoria
SuggestedRemedy Insert editors note: Des Response ACCEPT.	er status) only contains a tab criptive/normative text to be <i>Response Status</i> C		ction.			The other po Possible cor - does it me - or to the pi We need a	s a new pinout configuration ' blarity configuration is named nfusion can occur now when r an the specific polarity config nout configuration ? distinct name for the "Alternat fers to which pins are used in	'Alternative B'. referring to 'Altern uration ? ive B" polarity co	native B': onfiguration, so the
EZ					Suggested	dRemedy			
Cl 79 SC 79.3.2.6b Yseboodt, Lennart	P 156 Philips	L 3	# 123		Renar	ne 'Alternative B S for Straigh X for Cross	i' to 'Alternative B(S)' in the th ht	ird column of Ta	ble 33-2a.
	Comment Status A etup) only contains a table w	ithout text.		DLL		Other optior		for Normal	
SuggestedRemedy		- data data di ta ang	- 11			ative B(X) => Alt	ernative B(R) R for Rever	sed	
	criptive/normative text to be	added to this sec	ction.		Response		Response Status C		
Response ACCEPT.	Response Status C				ACCE	PT IN PRINCIP	LE.		
EZ					Renar	ne 'Alternative B S for Straigh X for Cross	' to 'Alternative B(S)' in the th ht	ird column of Ta	ble 33-2a.
					C/ 33	SC 33.2.1	P 25	L 16	# 125
					Yseboodt,	Lennart	Philips		
					Comment	Туре Т	Comment Status A		PSE Type
					This ir	nformation is alre	ther Alternative A, Alternative eady covered on page 33, line not correct for Type 4.		
					Suggested Remo	<i>Remedy</i> ve this line.			
					Response ACCE		Response Status C		
					F7				

ΕZ

CI 33 S	SC 33.5.1.1.4	P 111	L 16	# 126	Response			Response Status C		
Yseboodt, Len	nart	Philips			ACCE	PT.				
Comment Type	e T	Comment Status A		Management	C/ 33	SC	33.2.6	P 57	L 1	# 127
		e is not yet 4P aware.			Johnson, F	Peter		Sifos Techn	ologies	
	by the PSE.	is '01', bits 11.3:2 indicate th When	hat only PSE Pli	nout Alternative A is	Comment	Туре	Е	Comment Status A		Table 33-8
read the PSE.	as '10', bits 1	1.3:2 indicate that only PSE			opport	unity to	make it e	improvement upon the prio even clearer. All of the "Yes question "Is this configuration	s", "No" entries ir	
	re the option setting bits 11	of controlling the PSE Pinou	ut Alternative the	ough these bits is	Sugge	etion is	to rid the	e table of the "implied questi	on" as ner reme	dy below
		the PSE to use only PSE Pi	nout Alternative	A and setting bits	Suggested					dy below.
11.3:2 to '	10' shall force	the		Ũ			•	s" with "Configurations".		
PSE	to use only F	SE Pinout Alternative B.			Replac	Je ren	nutations	s with Configurations.		
		writing to these register bits	shall set mr_pse	e_alternative to the	Replac	ce "Yes	" with "Va	alid" and "No" with "Invalid".		
	ding value: '0 d '10' = B_Th	1' = e combinations '00' and '11	' for hits 11 3.2	are reserved and will	Re-title	e Table	33-8: "P	SE and PD classification co	onfigurations"	
never be a			101 5110 11.0.2		Response			Response Status C	U	
	•	2 returns an unambiguous r	result of '01' or '	10' that may be used to			RINCIPL			
	the presence e PSE Contro									
SuggestedRen		0			See co	omment	t # 141.			
Replace by					EZ					
		', bits 11.3:2 indicate that or	nly PSE Pinout	Alternative A is	C/ 33	SC	33.2.6	P 55	L 11	# 128
	by the PSE. ' as '10', bits 1	1.3:2 indicate that only PSE	E Pinout Alterna	tive B is supported by	Johnson, F		55.2.0	Sifos Techn		# 120
the PSE.					Comment		Е	Comment Status A	ologico	Editoria
		', bits 11.3:2 indicate that bo rted by the PSE.	oth Pinout Alterr	ative A and Pinout		33-8 us		rms "No DLL" and "DLL". T	hese have not b	
		of controlling the PSE Pinou	ut Alternative the	ough these bits is	Suggested	Remea	lv			
	setting bits 11 1' shall force i	.3:2 the PSE to use only PSE Pi	nout Alternative	A and setting bits	00		,	a Link Layer" on line 11.		
11.3:2 to '	10' shall force	the			Response	,		Response Status C		
		SE Pinout Alternative B. to '11' shall allow the PSE t	to use both DSE	Dinout Altornativo A	, ACCE			•••••		
		tive B simultaneously.								
16 1- 10	10.0 '	and the second state of th		Norman Constanting	EZ					
	12.0 is one, v ding value: '0	vriting to these register bits : 1' =	snall set mr_ps	e_alternative to the						
Á, '1	0' = B and '11	' = BOTH. The combination								
	ding bits 11.3 termine the p	2 returns an unambiguous r	result of '01', '10)' or '11' that may be						
	e PSE Contro									

	SC 33.2.4.4	P 35	L 20	# 129	C/ 01	SC 1.4	P 18	L 14	# 131
Johnson, Pet	ter	Sifos Techno	logies		Walker, D	ylan	Cisco		
Comment Ty		Comment Status A		4PID	Comment	Туре Е	Comment Status A		Editoria
		"maintain_4pair_power sage (e.g. "PD does no			"Pair	set: Either of th	e two valid 4-wire connecti	on as listed in 33.2.3."	
		blicing to class?), and "v			Seem	s "connection"	should be plural.		
As this is	s an interonerability	specification, how is a	PD designer to k	now what constitutes	Suggeste	dRemedy			
		xample, if a PSE can re			"Pair	set: Either of th	e two valid 4-wire connecti	ons as listed in 33.2.3."	
signature won't har		, how does the PD desig	gner know to des	gn a PD where this	Response)	Response Status C		
wontnap	ppen:				ACCE	EPT IN PRINCI	PLE.		
		ssible recipe by which to distinguish the power re			OBE	by comment #	175		
		S or overload type of shi		i might otherwise be a		-,			
SuggestedRe	emedy				EZ				
Either re	move "vendor disc	retion" as a criteria or ex	pand the Editor	Note to indicate that a	C/ 00	SC O	Р	L	# 132
more det not advis		uired explaining why a F	PSE might decide	e that 4-pair powering is	Walker, D	ylan	Cisco		
Response		esponse Status C			Comment	51	Comment Status A		Editoria
•	T IN PRINCIPLE.				l belie	eve the TF deci	ded on "pairset" over "pair	set" and "pair-set".	
					Suggeste	-			
	comment # 252				Repla	ice all instance	s of "pair set" and "pair-set	" with "pairset".	
	SC 33.2.7	P 62	L 51	# 130	Response		Response Status C		
Johnson, Pet	ter	Sifos Techno	logies		ACCE	EPT IN PRINCI	PLE.		
Comment Ty		Comment Status A		PSE Power	OBE	by comment #	15.		
		pair PSE's to limit curre navior, that is allowing u			EZ				
damage	existing PD's that	were designed to expect							
		s receive 4-Pair power.							
SuggestedRe		involved Fernance		- ditaria Nata an tha					
topic.	edy to this may get	involved. For now, we	could create an	altor's Note on the					
		rush current on a per-pa so inrush is fully experie							
Response	Re	esponse Status C							
ACCEPT	T IN PRINCIPLE.								
	make item 5 item s D type 1/2.	5a and restore original i	tem 5. Item 5a is	s for PD type 3/4. Item					
				T/tashaiaal E/aditarial C				ammont /D 422	Dage 22 of 09

C/ 33 SC 33.1.4	P 21	L 53	# 133	CI 33 SC	33.1.4.1	P 23	L 10	# 135
Walker, Dylan	Cisco			Walker, Dylan		Cisco		
Comment Type E	Comment Status A		Editorial	Comment Type	Е	Comment Status A		
connecting them."	sists of a single PSE, a single	PD, and the link	segment			eration requires Class D, or b Iditional requirement that cha		
Comma after "A powe	r system" is not needed.			Make "require	o" oinquia	ar an		
SuggestedRemedy					0	al.		
, ,	ists of a single PSE, a single	PD, and the link	segment	SuggestedRemed	•			
connecting them." Response	Response Status C					eration require Class D, or be Iditional requirement that cha		
ACCEPT IN PRINCIP	LE.			Response		Response Status C		
OBE by comment # 25	56			ACCEPT.				
EZ				EZ				
C/ 33 SC 33.1.4 Walker, Dylan	P 22 Cisco	L 25	# 134	CI 33 SC Walker, Dylan	33.1.4.2	P 23 Cisco	L 30	# 136
Comment Type E Table 33–1—System I	Comment Status A Power parameters Vs System	п Туре	Unbalance	Comment Type "33.1.4.2 Type	E e 1 and T	Comment Status A ype 2 Channel requirement"		Editoria
Note 2 is also applicat	ble to Type 4, column 2.			Make "require	ment" plu	ıral.		
				SuggestedRemed	•	ype 2 Channel requirements'		
SuggestedRemedy				Response				
	next to 0.960 value for Type	4, column 2.		ACCEPT IN F	RINCIPL	Response Status C E.		
Response	Response Status C							
ACCEPT.				OBE by comm	nent # 24			
EZ				EZ				

Cl 33 SC 33.1.4.3 P 23 L 49 # 137 Walker, Dylan Cisco Cis	CI 00 SC 0 P L # 139 Walker, Dylan Cisco
Comment Type E Comment Status A Editoria "33.1.4.3 Four-pair operation channel requirement for pair-to-pair resistance unbalance"	Comment Type E Comment Status A Er Inconsistency with "4-pair", "4 pair", "four pair", etc.
Since this ultimately falls under channel requirements, it seems like the subclause should be changed accordingly.	SuggestedRemedy Suggest replacing all other variants with 4-pair.
SuggestedRemedy "33.1.4.2.1 Four-pair operation channel requirement for pair-to-pair resistance unbalance"	Response Response Status C ACCEPT.
or	EZ
"33.1.4.2a Four-pair operation channel requirement for pair-to-pair resistance unbalance"	CI 33 SC 33.2.4.4 P 35 L 17 # 140 Walker, Dylan Cisco
Whichever the style guide would dictate. Response Response Status	Comment Type E Comment Status A E
ACCEPT IN PRINCIPLE.	"maintain_4pair_power This variable is provided for Type 3 and Type 4 PSEs to determine whether to continue providing a 4 pair power."
Replace with:	
"33.1.4.2.1 Four-pair operation channel requirement for pair-to-pair resistance unbalance"	SuggestedRemedy "maintain_4pair_power This variable is provided for Type 3 and Type 4 PSEs to determine whether to continue
"33.1.4.2.1 Four-pair operation channel	SuggestedRemedy "maintain_4pair_power
"33.1.4.2.1 Four-pair operation channel requirement for pair-to-pair resistance unbalance" EZ C/ 33 SC 33.2.3 P 32 L 31 # 138	SuggestedRemedy "maintain_4pair_power This variable is provided for Type 3 and Type 4 PSEs to determine whether to continue providing 4 pair power."
"33.1.4.2.1 Four-pair operation channel requirement for pair-to-pair resistance unbalance" EZ Cl 33 SC 33.2.3 P 32 L 31 # 138 Walker, Dylan Cisco Comment Type E Comment Status A Editoria	SuggestedRemedy "maintain_4pair_power This variable is provided for Type 3 and Type 4 PSEs to determine whether to continue providing 4 pair power." Response Response Status C ACCEPT. C/ 33 SC 33.2.6 P 57 L 1 # 141
"33.1.4.2.1 Four-pair operation channel requirement for pair-to-pair resistance unbalance" EZ C/ 33 SC 33.2.3 P 32 L 31 # 138 Walker, Dylan Cisco	SuggestedRemedy "maintain_4pair_power This variable is provided for Type 3 and Type 4 PSEs to determine whether to continue providing 4 pair power." Response Response Status C ACCEPT. Cl 33 SC 33.2.6 P 57 L 1 # 141
"33.1.4.2.1 Four-pair operation channel requirement for pair-to-pair resistance unbalance" EZ Cl 33 SC 33.2.3 P 32 L 31 # 138 Walker, Dylan Cisco Comment Type E Comment Status A Editoria Table 33–2a—Permitted Pinout alternatives per Type Slightly confusing that "Alternative A (MDI)" and "Alternative A (MDI-X)" columns are	SuggestedRemedy "maintain_4pair_power This variable is provided for Type 3 and Type 4 PSEs to determine whether to continue providing 4 pair power." Response Response Status ACCEPT. C/ 33 SC 33.2.6 P 57 L 1 # 141 Walker, Dylan Cisco Comment Type E Comment Status A Table 33–8—PSE and PD classification permutations PD permutations are in the PSE clause, but they would stand on their own in the PD
"33.1.4.2.1 Four-pair operation channel requirement for pair-to-pair resistance unbalance" EZ Cl 33 SC 33.2.3 P 32 L 31 # 138 Walker, Dylan Cisco Comment Type E Comment Status A Editoria Table 33–2a—Permitted Pinout alternatives per Type Slightly confusing that "Alternative A (MDI)" and "Alternative A (MDI-X)" columns are swapped versus Table 33-2 above it. SuggestedRemedy Swap "Alternative A (MDI)" and "Alternative A (MDI-X)" columns to align with Table 33-2	SuggestedRemedy "maintain_4pair_power This variable is provided for Type 3 and Type 4 PSEs to determine whether to continue providing 4 pair power." Response Response Status C ACCEPT. C/ 33 SC 33.2.6 P 57 L 1 # 141 Walker, Dylan Cisco Comment Type E Comment Status A Table Table 33–8—PSE and PD classification permutations PD permutations are in the PSE clause, but they would stand on their own in the PD clause.
"33.1.4.2.1 Four-pair operation channel requirement for pair-to-pair resistance unbalance" EZ Cl 33 SC 33.2.3 P 32 L 31 # 138 Walker, Dylan Cisco Comment Type E Comment Status A Editoria Table 33–2a—Permitted Pinout alternatives per Type Slightly confusing that "Alternative A (MDI)" and "Alternative A (MDI-X)" columns are swapped versus Table 33-2 above it. SuggestedRemedy Swap "Alternative A (MDI)" and "Alternative A (MDI-X)" columns to align with Table 33-2 above it.	SuggestedRemedy "maintain_4pair_power This variable is provided for Type 3 and Type 4 PSEs to determine whether to continue providing 4 pair power." Response Response Status C ACCEPT. Cl 33 SC 33.2.6 P 57 L 1 # 141 Walker, Dylan Cisco Comment Type E Comment Status A Table Table 33–8—PSE and PD classification permutations PD permutations are in the PSE clause, but they would stand on their own in the PD clause. SuggestedRemedy SuggestedRemedy
"33.1.4.2.1 Four-pair operation channel requirement for pair-to-pair resistance unbalance" EZ C/ 33 SC 33.2.3 P 32 L 31 # 138 Walker, Dylan Cisco Comment Type E Comment Status A Editoria Table 33–2a—Permitted Pinout alternatives per Type Slightly confusing that "Alternative A (MDI)" and "Alternative A (MDI-X)" columns are swapped versus Table 33-2 above it. SuggestedRemedy Swap "Alternative A (MDI)" and "Alternative A (MDI-X)" columns to align with Table 33-2 above it. Response Response Status C ACCEPT IN PRINCIPLE.	SuggestedRemedy "maintain_4pair_power This variable is provided for Type 3 and Type 4 PSEs to determine whether to continue providing 4 pair power." Response Response Status C ACCEPT. ACCEPT. Cl 33 SC 33.2.6 P 57 L 1 # 141 Walker, Dylan Cisco Comment Type E Comment Status A Table Table 33–8—PSE and PD classification permutations PD permutations are in the PSE clause, but they would stand on their own in the PD clause. SuggestedRemedy (1) Rename "Table 33–8—PSE classification permutations" (2) Move "PD Permutations" half of the table to 33.3.5, page 83, line 43 (3) Have the text on line 41 above it reference the new table number with title "PD
"33.1.4.2.1 Four-pair operation channel requirement for pair-to-pair resistance unbalance" EZ Cl 33 SC 33.2.3 P 32 L 31 # 138 Walker, Dylan Cisco Comment Type E Comment Status A Editoria Table 33–2a—Permitted Pinout alternatives per Type Slightly confusing that "Alternative A (MDI)" and "Alternative A (MDI-X)" columns are swapped versus Table 33-2 above it. SuggestedRemedy Swap "Alternative A (MDI)" and "Alternative A (MDI-X)" columns to align with Table 33-2 above it. Response Response Status C	SuggestedRemedy "maintain_4pair_power This variable is provided for Type 3 and Type 4 PSEs to determine whether to continue providing 4 pair power." Response Response Status C ACCEPT. ACCEPT. C/ 33 SC 33.2.6 P 57 L 1 # 141 Walker, Dylan Cisco Comment Type E Comment Status A Table Table 33–8—PSE and PD classification permutations PD permutations are in the PSE clause, but they would stand on their own in the PD clause. SuggestedRemedy (1) Rename "Table 33–8—PSE classification permutations" (2) Move "PD Permutations" half of the table to 33.3.5, page 83, line 43

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

C/ 00 SC 0 Walker, Dylan	P Cisco	L	# 142	C/ 33 SC 33.2.7.7 Walker, Dylan	P 70 Cisco	L 17	# 145
Comment Type E Inconsistency with	Comment Status A the usage of "Autoclass", "Aut	o Class", and "Au	<i>Editorial</i> to class".	<i>Comment Type</i> E "Tlimmin-2P is TLIM m	Comment Status A in per pair set as defined in ⁻	Table 33–11"	Editoria
SuggestedRemedy Suggest replacing	all other variants with "Autocla	ss".		Tlimmin-2P does not h SuggestedRemedy	ave the T italicized.		
Response ACCEPT.	Response Status C			Italicize the T in Tlimm			
CI 33 SC 33.2		L 46	# 143	Response ACCEPT.	Response Status C		
Walker, Dylan Comment Type E	Cisco Comment Status A		Editorial	EZ			
"When end to end	pair to pair current unbalance on-2P-UNB as specified by Tab			Cl 33 SC 33.2.4.6 Walker, Dylan	P 41 Cisco	L 9	# 146
to the value of ICo Response ACCEPT IN PRIN "When end to end	pair to pair current unbalance n-2P-UNB as specified by Tab <i>Response Status</i> C CIPLE. pair to pair current unbalance JNB as specified by Table 33-1	le 33-11 item 4a." is present, Icon-2		or dual-signature config Spelling mistake. SuggestedRemedy "Invalid: Either the PSE	E has detected an open_circutermine whether the PD is si	uit on one of the p	pair sets, or is
C/ 33 SC 33.2 Walker, Dylan	.7.7 P 69 Cisco	L1	# 144	Response ACCEPT IN PRINCIPL	Response Status C E.		
Comment Type E Figure 33–14—PC	Comment Status A DWER_ON state, per pair set o	perating current te	<i>Editorial</i>	EZ			
SuggestedRemedy	in, and TCUTmax missing "-2p , TCUTmin, and TCUTmax to 1 <i>Response Status</i> C		Tmin-2P, and TCUTmax-				

CI 33 S Walker, Dylan	SC 33.2.4.6	P 42 Cisco	L 42	# 147	<i>Cl</i> 33 Walker, D	SC 33.2.7 ylan	P 62 Cisco	L 26	# 149
TLIM-2P, and greate	may choose and PType (s er than equal or", assuming	Comment Status A to apply the electrical requir ee Table 33-11) of any Type to the PD Type."	e lower than or ea	qual to the PSE Type	unless Item 1	33–11—PSE ou s otherwise spec a	Comment Status A tput PI electrical requirem fied at no load was selected w		
"The PSE TLIM-2P, a and greate <i>Response</i> ACCEPT I	may choose and PType (s				pointle Suggestee Frank invest	ess. dRemedy ly not sure yet, b igation with Yair cation in order to	stem, which cannot be ign ut would like to note that to to determine if the max va serve its true purpose. <i>Response Status</i> C	his parameter is un	der continued
	SC 33.2.7.7	Р 68 Cisco	L 45	# 148	ACCE	PT IN PRINCIPI	_E.		
any pair se pair set th Missing sp SuggestedRer "When con any pair se	nnected to a c et that exceed at exceeds th pace. <i>medy</i> nnected to a c et that exceed at exceeds th	Comment Status A dual signature PD, a Type 3 ls the "PSE lowerbound tem e "PSE upperbound templat dual signature PD, a Type 3 ls the "PSE lowerbound tem e "PSE upperbound templat <i>Response Status</i> C	plate" and shall e"." or Type 4 PSE n plate" and shall	remove power fromany	This v Value True: True a Suggested "both This v Value	<i>Type</i> TR _alts_valid ariable is provide s:False:do_detect do_detection doo and False have the <i>dRemedy</i> _alts_valid ariable is provide s:False: do_detection doo	<i>P</i> 34 Cisco <i>Comment Status</i> A ed for Type 3 and Type 4 ction does not yields "valid es not yield "valid" on both ne same definition. ed for Type 3 and Type 4 ction does not yield "valid es yield "valid" on both pa <i>Response Status</i> C	I" on both pair sets. pair sets." PSEs. " on both pairsets.	# <u>150</u> Editoria
						PT IN PRINCIPI	_E.		

CI 33		33.3.5.3	P 86	L 22	# 151	CI 33		33.4	P 95	L 37	# 153
Walker, Dy	lan		Cisco			Walker, D	ylan		Cisco		
Comment 7		Е	Comment Status A		Editorial	Comment	Туре	Е	Comment Status A		AE
implem	enting	Auto class	class shall not have class_ shall remove its classificat '0' for the remainder of CL	ion current at T	ACS, resulting in a				33.4 are consistent with the re 1000BASE-T and 10GBASE		ne 10BASE-T MAU and
class c	arry ou	ut rest of the	Physical Layer classificati	on as defined i	n section 33.3.5.1 or	Extra	"and" i	instead of	comma.		
33.3.5.	2.					Suggested	dReme	edy			
through	nout th	e period bou	ementing Auto class shall unded by TAUTO_PD1 and				•		33.4 are consistent with the re 0BASE-T and 10GBASE-T P	•	ne 10BASE-T MAU and
VPort_	PD ris	es above VF	Port_PD min."			Response			Response Status C		
There i	s a mi	ssing "the" i	n line 24, and PD is referre	d to singularly	and plurally in this text.	ACCE	PT IN	PRINCIP	LE.		
Suggested	Remed	dy				l prefe	er the s	serial com	ma to be included.		
implem classifi	nenting cation	Auto class signature of	o class shall not have class shall remove its classificat '0' for the remainder of CL	ion current at T ASS_EV1. A F	ACS, resulting in a PD implementing Auto				33.4 are consistent with the re 0BASE-T, and 10GBASE-T I		ne 10BASE-T MAU and
class c or 33.3		out the rest	of the Physical Layer class	ification as def	ined in section 33.3.5.1	C/ 33	SC	33.5.1.1.	1a <i>P</i> 110	L 42	# 154
0 55.5	.0.2.					Walker, D		•••••	Cisco		
through	hout th	e period bou	lementing Auto class shall unded by TAUTO_PD1 and Port_PD min."			Comment "33.5.		E Deny Dua	Comment Status A al Signature PD 4 Pair powee	r"	Editor
Response			Response Status C			0			C I		
ACCEF	PT.					Spellir	•	al i			
EZ						Suggested		•	al Signature PD 4 Pair power'	,	
						Response		Deny Dua	0		
<i>CI</i> 33 Walker, Dy		33.3.7	P 88 Cisco	L 1	# 152	ACCE			Response Status C		
Comment 7 Table 3		E —PD power	Comment Status A supply limits (continued)		Table 33-18	EZ					
For iter	m 4, th	e boxes for	additional information for c	lasses 5-8 are	empty.						
Suggested	Remed	dy									
make it	t more	clear that th	nal information for classes here is an explanation for "I 8 in 33.3.7.2.								
Response ACCEF	PT IN F	PRINCIPLE.	Response Status C								
Merae	additic	on informatio	on box for class 0-4 with bo	xes for classes	5-8. Leave text as is.						
FYPE: TR/t	technic	cal required	ER/editorial required GR/	general require	d T/technical E/editorial G/	/general			Comm	ent ID 154	Page 37 of 98

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

C/ 33A SC 33A.3 Walker, Dylan	P 145 Cisco	L 11	# 155	C/ 33 SC 33.4.1 Walker, Dylan	<i>P</i> 96 Cisco	L 1	# 157
Comment Type E "33A.3 Inter Pair Res	Comment Status R istance Unbalance"		Editorial	Comment Type ER Table 33–19a—PD D0	<i>Comment Status</i> A C Maintain Power Signature		Editorial
This section describe pairs. SuggestedRemedy "33A.3 Intra Pair Res Response REJECT.	es resistance unbalance within istance Unbalance" <i>Response Status</i> C	a twisted pair, n	ot between twisted	SuggestedRemedy	Response Status C		page 95, line 25 under
33.A.4 is for Intra Pai EZ	r unbalance			OBE by comment # 30 EZ	01.		
<i>Cl</i> 33 <i>SC</i> 33.3.2 Walker, Dylan	P 75 Cisco	L 29	# 156	Cl 01 SC 1.3 Zimmerman, George	P 18 CME Consult	L 5 ting	# 158
Comment Type ER Table 33–13a—Perm	Comment Status A hissible PD Types		Editorial	Comment Type ER Clause 1.3 and 1.5 ard abbreviations are inse	Comment Status A e placeholders, which will be or rted	deleted if no ne	<i>Editorial</i> w references or
SuggestedRemedy	IPS entries indicate a note 3 th for these 2 entries in Table 33- <i>Response Status</i> C		le PD Types.	OR - add editor's note Editor's note (to be ren content. If no new refe	ences (abbreviations for 1.5) s (one for 1.3 and one for 1.5 noved prior to publication) - 1 erences (abbreviations for cl be deleted from the ballot dra	his clause is a 1.5) are added j	
EZ				Response ACCEPT.	Response Status C		

Cl 99 SC Zimmerman, George	P1 CME Consult	L 2	# 159	C/ 33 SC 33.2.4. Zimmerman, George	6 P 40 CME Consul	L 52	# 162
Comment Type E 802.3bt should be an a concurrent projects are	Comment Status A mendment on the revised st tracking the revision project s done now while the TF is re	andard, not on I (bx) and it will I	be necessary at WG	Comment Type E do_connection_chec SuggestedRemedy Insert prior to "This fi	Comment Status A k needs to reference connection	on check require	PSE State Diagran
Globally change 'amen	dment to 802.3-2012' (in hear rences and base text to track next turn of bt)			Response ACCEPT.	Response Status C		
Response	Response Status C			EZ			
ACCEPT.				Cl 33 SC 33.3.5. Zimmerman, George	3 P 86 CME Consul	L 16 ing	# 163
Cl 99 SC Zimmerman, George Comment Type E	P 3 CME Consult Comment Status A	L 13 ing	# 160 Editorial	Comment Type E Auto Class nomencla are used in the draft.	Comment Status A ature is confusing. is it "Auto C	-	Editoria lass" or "Autoclass". All
Fill in amendment nam	e and title per PAR.			SuggestedRemedy			
SuggestedRemedy				Change all reference	s to "Auto Class" or "Auto clas	s" to "Autoclass	II.
Fill in 802.3bt, title text	from the PAR.			Response	Response Status C		
Response ACCEPT.	Response Status C			ACCEPT IN PRINCI OBE by comment #			
EZ				All occurances chan			
C/ 33 SC 33.1.4 Zimmerman, George	P 22 CME Consult	L 24 ing	# 161	EZ			
Comment Type E Table 33-1 thick line be	Comment Status A	Гуре 4	Editorial	C/ 33 SC 33.1 Zimmerman, George	P 19 CME Consult	L 12 ing	# 164
SuggestedRemedy Replace thick line betw	een Type 3 and Type 4 with	line 'As in Table	e' (thin line).	Comment Type ER This important guide	Comment Status A to the reader appears out of p	ace and easily l	<i>Editoria</i> ost.
Response ACCEPT IN PRINCIPL	Response Status C E.			SuggestedRemedy Make sentence 'This same place where it	clause uses terms defined in o	clause 1.4.' it's c	own paragraph, in the
OBE by comment # 21				Response	Response Status C		
EZ				ACCEPT.			
				EZ			

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

Comment ID 164

Zimmerman, George CME Consulting Zimmerman, George CME Consulting Comment Type ER Comment Status A Editorial Editor to track revision project and update references prior to WG ballot. Editorial Comment Type ER Comment Status A SuggestedRemedy Implement references per 802.3bx D3.1 and track. Editorial SuggestedRemedy delete leading dashes on footnotes 1 through 4. Response Response Status C Response Status C ACCEPT. C/ 33 SC 33.1.3 P21 L 47 # 166 Zimmerman Contract CME Consulting EZ EZ									
Comment Type ER Comment Status A Editorial Comment Type ER Comment Status A Suggested/Remedy Implement references per 802.3bx D3.1 and track. Table 33-18 Notes 1 through 4 have leading dashes Response Response Status C ACCEPT. Cl 33 SC 33.1.3 P21 L 47 # [66] Comment Type ER Comment Status A ACCEPT. Cl 33 SC 33.1.4.1 P21 L 47 # [66] Comment Type ER Comment Status A Editorial Editorial Editorial Editorial Comment Type ER Comment Status A Comment Type ER Comment Status A Comment Type ER Comment Status A Suggested/Remedy Delete editor's note is unclear what action is pending. Response Status C Response Response Status C O Somewhere in the editing, we've made enough holes in this swiss cheese that the editor's note. If no, leave note. EZ Cl 33 SC 33.1.4.1 P23 L 8 # [16				# 165				-	# 168
Implement references per 802.3bx D3.1 and track. delete leading dashes on footnotes 1 through 4. Response Response Status C ACCEPT. Cl 33 SC 33.1.3 P21 L47 # 166 Cl 33 SC 33.1.3 P21 L47 # 166 Editorial Comment Type ER Comment Status A Editorial Editorial Editorial SuggestedRemedy Delete editor's note is unclear what action is pending. Response Response Status C ACCEPT. Has editor consulted with staff? If no, leave note. Comment Type ER Comment Status A Kesponse Response Status C ACCEPT IN PRINCIPLE. SuggestedRemedy SuggestedRemedy Has editor consulted with staff? If no, leave note. Ez Cl 33 SC 33.1.4.1 P23 L 8 # 167 Cl 33 SC 33.1.4.1 P23 L 8 # 167 Clause specified in ISO/IEC 11801:2002.* Clause specified in ISO/IEC 11801:2002.* Clause specified in ISO/IEC 11801:2002.* Cl 33 SC 33.1.4.1 P23 L 8 # 167 Clause specified in ISO/IEC 11801:2002.* Clause specified in ISO/IEC 11801:2002.* Clause specified in ISO/IEC 1180		ER Comment Status A					Comment Status A		Editorial
ACCEPT. Cl 33 SC 33.1.3 P21 L47 # 166 Zimmerman, George CME Consulting Comment Type ER SuggestedRemedy Delete editor's note or make clear what action is pending. Response Response Status C ACCEPT IN PRINCIPLE: Has editor consulted with staff? If yes, delete editor's note. If no, leave note. EZ Cl 33 SC 33.1.4.1 P23 L8 # 167 Zimmerman, George CME Consulting Comment Type ER Comment Type ER Comment Type ER Consulted with staff? If yes, delete editor's note. If no, leave note. EZ Cl 33 SC 33.1.4.1 P23 L8 # 167 Zimmerman, George CME Consulting Comment Type ER Comment Status A SuggestedRemedy CME Consulting Corresponse CME Consulting Editorial SuggestedRemedy CME Consulting		rences per 802.3bx D3.1 and track.				•	on footnotes 1 through 4.		
Construction CME consulting Comment Type ER Comment Status A Editor's note is unclear what is being consulted on. It appears to be on an issue that was resolved by changes on lines 39 & 42. SuggestedRemedy SuggestedRemedy Delete editor's note or make clear what action is pending. Response Response Status C ACCEPT IN PRINCIPLE. Has editor consulted with staff? The section requirements status is not the link section below, then on the link section is pending. EZ Cl 33 SC 33.14.1 P 23 L 8 # [167] Cl 33 SC 33.14.1 P 23 L 8 # [167] Cl 33 SC 33.14.1 P 23 L 8 # [167] Cl 33 SC 33.14.1 P 23 L 8 # [167] Cl 33 SC 33.14.1 P 23 L 8 # [167] Cl 33 SC 33.14.1 P 23 L 8 # [167] Cl 33 SC 33.14.1 P 23 L 8 # [167] Zimmerman, George CME Consulting C ACCEPT IN PRINCIPLE. Cl 33 SC 33.14.1 P 23 L 8 # [167] Zimmerman, George	•	Response Status C				PT.	Response Status C		
Comment Type ER Comment Status A Editorial Editor's note is unclear what is being consulted on. It appears to be on an issue that was resolved by changes on lines 39 & 42. SuggestedRemedy Comment Type ER Comment Status A SuggestedRemedy Delete editor's note or make clear what action is pending. Comment Type ER Comment Type ER Comment Status A Response Response Status C Comment Status C Somewhere in the editing, we've made enough holes in this swiss cheese that the requirement is unclear. "Operation for all types shall meet the resistance unbalance requirements stated in ISO/IEC 11801/EC 11801				# 166	EZ				
Editor's note is unclear what is being consulted on. It appears to be on an issue that was resolved by changes on lines 39 & 42. Comment Status A SuggestedRemedy Delete editor's note or make clear what action is pending. Comment Status C Response Response Status C Somewhere in the editing, we've made enough holes in this swiss cheese that the requirements is unclear. "Operation for all types shall meet the resistance unbalance requirements is unclear. "Operation of what, for what, what requirements? Is this a requirement on the provide with staff? Has editor consulted with staff? If yes, delete editor's note. If no, leave note. Comment Status A SuggestedRemedy EZ EZ C/ 33 SC 33.1.4.1 P 23 L 8 # 167 Response Response Status C Response Status C C/ 33 SC 33.1.4.1 P 23 L 8 # 167 Comment Type ER Comment Status A Editorial gauge is misspelled as guage. (2 instances) Comment Status A C SuggestedRemedy Change beginning of 33.1.4.2 to: "Link sections for all Types shall comply with the resistance unbalance requirem a twisted pair as specified in ISO/IEC 11801:2002". Change beginning of 33.1.4.2 to: "Link sections for all Types shall comply with the resistance unbalance requirem a twisted pair as specified in ISO/IEC 11801:2002". Refer to Annex 33A.3 for mark the resistance unbalance requirem a twisted pair as specified in ISO/IEC 11801:2002".	, 6		ig					-	# 169
C/ 33 SC 33.1.4.1 P 23 L 8 # 167 Zimmerman, George CME Consulting ACCEPT IN PRINCIPLE. Comment Type ER Comment Status A Editorial gauge is misspelled as guage. (2 instances) Editorial Change beginning of 33.1.4.2 to: SuggestedRemedy Tink sections for all Types shall comply with the resistance unbalance requirem a twisted pair as specified in ISO/IEC 11801:2002". Refer to Annex 33A.3 for minformation. Response Response Status C	resolved by cha SuggestedRemedy Delete editor's r Response ACCEPT IN PR Has editor cons If yes, delete ed	nges on lines 39 & 42. note or make clear what action is per <i>Response Status</i> C INCIPLE. sulted with staff?		e on an issue that was	Somev require Operat on the Suggested Rephra comply If it is o Clause unbala	where in the editi ment is unclear. ments stated in ion of what, for v link section. I'm <i>Remedy</i> use similar to how with the resista in the PSE/PD c s 33.2 and 33.3	ng, we've made enough holes "Operation for all types shall r ISO/IEC 11801:2002." what, what requirements? Is th assuming first its on the link s w it is in PHY requirements: "Ince unbalance requirements s peration, then state, "PSE PI a shall be met over link sections ISO/IEC 11801:2002."	meet the resis nis a requirem section below, Link sections f pecified in ISC and PD PI elect	tance unbalance ent on the port (PI) or then on the PSE/PD. or all Types shall D/.IEC 11801:2002/" ctrical requirements in
	Zimmerman, George Comment Type gauge is misspe SuggestedRemedy change guage to Response	e CME Consultin ER Comment Status A elled as guage. (2 instances) o gauge (2 instances)	-		ACCEI Chang "Link s a twist	e beginning of 3 ections for all Ty ed pair as specif	E. 3.1.4.2 to: /pes shall comply with the resis		

ΕZ

Cl 33 SC 33.2.4.6 Zimmerman, George	P 42 CME Consultin	L 14	# 170	Cl 33 Zimmerman,	SC George		P 88 CME Consultir	L 17	# 172
Comment Type ER	Comment Status D	9	PSE State Diagram	Comment Ty	•	Comment		ig	PSE Powe
	eter_type has gotten convolute	ed			18: 'guarai lines 1 and		equirement alre	ady. the word i	is redundant. Also on
SuggestedRemedy	able with permissible values for	r each PSE	type or reference such a	SuggestedRe	emedy				
table if it exists.			type, of reference such a	Remove	the word g	uaranteed (4 occu	urances, 2 in the	e table and 2 on	page 90)
Proposed Response	Response Status Z			Proposed Re	sponse	Response S	Status Z		
REJECT.				REJECT					
This comment was WI	THDRAWN by the commenter			This com	ment was	WITHDRAWN by	the commenter	:	
The comment and sug C/ 33 SC 33.3.4 Zimmerman, George	gested remedy is not clear end P 82 CME Consultin	L1	what should be changed. # 171	distinguis		vas added as part those classes wi			
Comment Type ER	Comment Status R	0	4PID	Zimmerman,	George		CME Consultin	ng	
Editor's note has been 4PID. SuggestedRemedy Remove editor's note. Response REJECT.	resolved - no change to valid o Response Status C	or non valid s	ignatures is required by	reference still writte impedanc table, OR existing c	19 deletes to 33.3.8 a n in terms ce may imp s, should be levices. Al	of input current, v oly a current, the o e removed from 3	t requirement to e row for input cu without a require current remains 3.3.8,which wou uld show approp	urrent, and, whe ment striken ou the requiremen uld be changing	en I check 33.3.8, it is
Based on the number of	of comments related to 4PID a	nd this text, I	suggest we keep the	SuggestedRe	emedy				
editor's note there for r	IOW.			"additiona	al informati	ext on Input curre on" column, as is t capacitance,			to 33.3.8 back to the enumber Input
				Response	·	Response S	Status C		
				ACCEPT	IN PRINC	IPLE.			
				This line	was replac	ed by item 1 in Ta	able 33-19a.		
				Editor to Iport_MP		nce to Table 33-1	9a in text where	appropriate (af	ter mention of
				Editor to	add note to	bottom of Table	33-19a: "See 3	3.3.8 for more i	information."

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

Comment ID 173

CI 33 SC 33.4.4	P 99	L 3	# 174	CI 33	SC 33.1.4.1	P 23	L 17	# 177
Zimmerman, George	CME Consulti	ng		Zimmerma	an, George	CME Consulting	g	
Comment Type ER 10GBASE-T requirment	Comment Status A t is TBD, and this seems to P	nave fallen off o	AES ur action item list.	Comment Type 2		Comment Status D r has all cable pairs energized		System Power
SuggestedRemedy Add an editor's note flag	gging that this requirement n	eeds contributio	ons to fill in.		der whether type	2 operation requires a 10 deg		nce only half of the
Response	Response Status C			•	0	Pelete type 2 from sentence, ret	ain type 3)	
ACCEPT.				Proposed REJE		Response Status Z		
EZ				KEJE	JI.			
C/ 01 SC 1.4 Zimmerman, George	P 18 CME Consulti	L 14	# 175	This c	omment was WI	THDRAWN by the commenter.		
Comment Type T	Comment Status A	0	Editorial	This is	already include	d in the sentence.		
connection should be pl	lural there are 2 sets.			C/ 33	SC 33.1.4.1	P 23	L 20	# 178
SuggestedRemedy					an, George	CME Consulting	-	" [110
change connection to co	onnections			Comment	Түре Т	Comment Status A	-	System Power
Response ACCEPT.	Response Status C			Add re The e	eference to TSB- ditor's note on lin	184-A for operation on all types the 25 is insufficient, because the ds to be changed.		ırd.
EZ				Suggested	IRemedy	-		
C/ 33 SC 33.1.1	P 19	L 53	# 176	See c	omment.			
Zimmerman, George	CME Consulti	ng		Response		Response Status C		
Comment Type T	Comment Status A		Cabling	ACCE	PT IN PRINCIPI	_E.		
	1995 Class D unless we exp delete category 5 operation.	licitly meant to o	change the base	Type	2 operation are	n: "Additional cable ambient op R 29125 [B49]1 and TIA TSB-1	0 1	rature guidelines for
See also on page 23, lir	ne 11			provid		X 29125 [D49]1 and TA 15D-16	04 [D00].	
and a derating' to 'Typ	pe 3 operation requires ISO/ be 2 operation requires ISO/ eration requires ISO/IEC 118 '	IEC 11801:1995	5 Class D or better	Туре 4	1 operation are	mbient operating temperature o		Гуре 2, Type 3, and
Make a similar change of	on page 23, line 11.							
Response ACCEPT.	Response Status C							

C/ 33 SC 33.2.2	P 25	L 35	# 179	CI 33	SC 33.1.4	P 22	L 5	# 181
Zimmerman, George	CME Co	nsulting		Zimmerman	George	CME Consulting	g	
Comment Type T	Comment Status A		Midspan	Comment T	vpe TR	Comment Status A		Editorial
	n PSEs may not be compa		T or 100BASE-TX due to	Editor's	note appears	to have been overcome by ever	nts - Type 4 is i	in the table now.
o .	ired. Requires further stud	dy.		SuggestedR	emedy			
SuggestedRemedy	ad 100DACE TV from line (DE incort aditoria n	to ofter description of	Delete e	ditor's note.			
10GBASE-T midspa	nd 100BASE-TX from line : n (on line 37):	35, Insert editor's no	ote after description of	Response		Response Status C		
	removed prior to publication			ACCEP	Г.			
the OCL requiremer	100BASE-TX requires furt ts for 10BASE-T /100BAS dth needs to be shown."			EZ				
Response	Response Status C			CI 33	SC 33.1.4	P 22	L 33	# 182
ACCEPT IN PRINC	PLE.			Zimmerman	George	CME Consulting	g	
10GBASE-T Midspa A Midspan PSE that	results in a link that can se			in a diffe Are the	, erent standard values for Typ	Comment Status A wer will be addressed in separa e 3 & Type 4 extended power c		0 00
operation and optior 33–4).	ally supports 10BASE-T a	nd 100BASE-1X op	eration (see Figure	SuggestedR	2	s in separate work' to 'is preser	ntly under study	in this draft'
C/ 33 SC 33.3.5	3 P 86	L 27	# 400	0				
Zimmerman, George	CME Col		# 180		Currently for e re as follows:'	extended power,' to 'Currently, the second sec	he proposed va	alues for extended
Comment Type T	Comment Status A		Editorial	Response		Response Status C		
can we really specif	what PD 'consumes'? we	e can only specify w	hat it draws.	ACCEP	Г.			
SuggestedRemedy change 'consume' to	o 'draw'			EZ				
Response ACCEPT.	Response Status C							

184
System Power
ed as recommended for new C 11801-2002. It is in 801-1 Edition 3, which
01-1 Edition 3(draft)" after (note the new references ference as it proceeds.
erence as it proceeds.
nis is correct.
405
185
PSE Types
ne PAR has been
eration and associated
SE and PDs is an expansion
e 33-1a.

We will ask to ammend the PAR.

C/ 33 SC 33.	.2.4.6	P 40	L 52	# 186	CI 33	SC 33.2.4.7		<i>L</i> 1	# 188
Zimmerman, George	;	CME Consulting	1		Zimmerman,	George	CME Consultir	ıg	
Comment Type T	R Co	mment Status A		PSE State Diagram	Comment Ty	pe TR	Comment Status A		PSE State Diagra
occur prior to cla Task Force has	assification. It been clear th	a home in the state diag also shouldn't happen s at it doesn't want connect "DO_DETECT" state in	gnificantly be tion check pi	fore detection. The nned down, so the only	state dia	gram as is cu	d) The motion in May was to re rrently in 802.3bx (802.3-2012) new classification matter from). Figure 33-9	is part of this, but is not
included in do_d					SuggestedRe				
 SuggestedRemedy	,					Figure 33-9 (notion in May.	continued) with the original Typ	e 1 and Type	2 PSE state diagram
add "do_connec	tion_check" t	o state START_DETECT	in Figure 33	-9a.	Response	iodon in may.	Response Status C		
Response	Res	ponse Status C			ACCEPT	•			
ACCEPT IN PRI					EZ				
		e diagram for Types 3 an tection and the connection			Cl 33 Zimmerman,	SC 33.2.5.0	a P 51 CME Consultir	L 20	# 189
We need to crea	ate a Type 3 a	and 4 state diagram that	considers the	ese issues.	Comment Ty	0	Comment Status A	.9	Connection Che
Accepting this co	omment resu	Its in no changes to the t	ext.		Connecti	on check det	ermines the signature type on t e general thing.	the link segme	
See comment #	225.				SuggestedRe	emedy	5 5		
Cl 33 SC 33. Zimmerman, George		P 42 CME Consulting	L 41	# 187	change "	determine the	e architecture of the PD" with " ature is attached to the two pai		0
, 0		mment Status A		PSE State Diagram	Response		Response Status C		
		. There is the PSE Type	then there is	0	ACCEPT	IN PRINCIP	LE.		
there are the PS words, and the factor	E Type requi	rements that the PSE is s don't "choose", having t ndicate proposed subscr	applying, the he option 'ma	n there are missing			e architecture of the PD" with "o tached to the two pair-sets in th		
In the process th greater than the		otten wrong as well, e.g., ws	a PSE shoul	dn't be supplying Ptype					
SuggestedRemedy									
"When a PSE po (Type_sub_PSE (Type_sub_PD),	owers a PD o), the PSE sh except for lo	with proposed text below. f lower Type (call this Ty hall meet the PI electrical con-2P, ILIM-2P, TLIM-2F, QSE type Type sub P	pe_sub_PD) requirement P, and Ptype,	s of the PD Type for which the PSE shall					

meet the requirements of any PSE type Type_sub_PD <= PSE Type <= Type_sub_PSE.

Response

Response Status C

ACCEPT.

Cl 33 SC 33.2.5.6 P 55 L 24 # 190 Zimmerman, George CME Consulting CME Consulting	C/ 33 SC 33.3.1 P 74 L 38 # 192 Zimmerman, George CME Consulting
Zimmerman, George CME Consulting Comment Type TR Comment Status A Editorial Annex-TBD is missing, even in outline form - what is in it? At least an editor's note of what is going to be in it, otherwise the reference is simply confusing and premature Editorial SuggestedRemedy Add at least a placeholder for the referenced annex in the draft, with an editor's note on the subject of the proposed content. Response Response Status C ACCEPT IN PRINCIPLE. Editor to add Annex 33E, update reference in this sentence, and fill Annex 33E with "Editor's note to be removed prior to publication: This annex will include informative autoclass material."	Zimmerman, George CME Consulting Comment Type TR Comment Status A PD F The draft of this section does NOT show an edit from the existing version of clause 33. This calls into question the ENTIRE draft and process. Taking out the strikeouts and adds, Draft 1.0 shows the existing text would be "The PD shall be capable of accepting power on either of two sets of Pl conductors and may accept power on both pair sets. The two conductor" 802.3bx draft 3.0 has for this paragraph, "The PD shall be capable of accepting power on either of two sets of Pl conductors. The two conductor" NO MENTION of may accept power on both pair sets. that is an 802.3bt ADD. SuggestedRemedy Editor to show "and may accept power on both pair sets" as underlined text, AND, editor to review entire draft relative to 802.3bx for other adds. Response Response Status C ACCEPT. C
Title of Annex: Autoclass Cl 33 SC 33.2.7 P 62 L 3 # 191 Zimmerman, George CME Consulting Comment Type TR Comment Status A PSE State Diagram Type 1 and Type 2 PSEs conform to 33-9, 33-9 continued and 33-10. Type 3 and Type 4 PSEs conform to 33-9a and continuations. SuggestedRemedy Insert "Type 1 and Type 2" before PSE behavior Insert sentence after "Figure 33-10", as follows: "Type 3 and Type 4 PSEs conform to the state diagrams in Figure 33-9a and its continuations and Figure 33-10." Response Response Status C	C/ 33 SC 33.3.1 P 74 L 41 # 193 Zimmerman, George CME Consulting Comment Type TR Comment Status A Editoria The name of the variable is maintain_4pair_power see zimmerman_3bt_02c_0515 slide 9, and page 35, line 15. SuggestedRemedy change "maintain_power_signature" to "maintain_4pair_power" Response Response Status C ACCEPT. EZ EZ EZ EX EX EX
ACCEPT IN PRINCIPLE. Add Editor's Note: "Update this sentence to reference Type 3/4 state diagram when state diagram is complete."	

C/ 33 SC 33.3.6	P 87	L 1	# 194	C/ 79		.6b(Table 79-6b		L 2629	# 195
Zimmerman, George	CME Consulting	g		Zhuang, Y		0	Huawei Tech	ologies	
Do we mean to restrict a Typ similarly, a Type 2 PD from text says. I think we want to it's own type.	dentifying it is connected specify that a PD recogr	l to a Type 3 PS hizes and identi	SE?) - that's what this fies a PSE type up to	Revise interfa	79-6b ction check is the meaning ce PD senario	s already used to of PD PI bit to i o described in L2	ndicate PD load 2 ad hoc and av	s for PSEs, so as	DL s to support the dual aded described in g.
The text as written causes a either Type 1 or Type 2 by a		ntified or to be i	randomly identified as	Suggested	Remedy				
SuggestedRemedy Replace paragraph beginnin "A PD shall identify any PSE recognize a Type 1 or Type 1, Type 2 or Type 3 PSE, ar identify a PSE of higher type	type up to and including 2 PSE (see figures 33-16 ad a Type 4 PD shall reco	it's own type (e 6), a Type 3 PD ognize PSEs up	shall recognize a Type to Type 4). A PD may	"1 = D 0 = Sin to: "0= Tr 1= The	ngle signature e PD is a sing	PClass_PD is t PClass_PD is gle load. The M I load. Each Mo	indicated by eitl ode class on ea	ndicated PD mode ner PD mode pow ch pair-set shall b is used to determ	be the same.
3 PSE as a Type 2."				Response		Response	Status C		
	sponse Status C			ACCE	PT IN PRINC	IPLE.			
ACCEPT IN PRINCIPLE. This sentence should be cha Type 4 PDs (class 7/8) shou fingers. Type 3 PDs should	Id be able to identify all types are able to identify the types able to identify the types are able to identify the types ar	ypes based stri bes of PSEs up	to their power level.	OBE b	y comment #	es to the text. 253. status register d	escriptions.		
For example, a Class 3 Type Type 3 PSE, and even then				C/ 33	SC 33.2.3	6	P 32	L 30	# 196
Change paragraph to:				Bullock, C			Cisco System	าร	
A Type 2 PD shall identify th A Type 3 PD shall identify th				in Tab	rity, the order s 33-2.		Status A in Table 33-2a	should match the	Editori order of the columns
be able to identify the PSE T Type 3 PDs may also differe monitoring the length of the	Type as Type 1, Type 2, c entiate Type 3 PSEs from	or Type 3 if it is	a class 5 or 6 PD.		-		mn "Alternative	A (MDI)" with the	entire column
A Type 4 PD shall identify th	e PSE Type as either Ty	ре 1, Туре 2, Т	ype 3, or Type 4.	Response ACCE	PT.	Response	Status C		
A DD connected to a high an	PSE Type than its own m	nay identify that	t PSE as its own Type.	EZ					

-				
Cl 33 SC 33.2.6 Bullock, Chris	P 57 Cisco Systems	L 35	# 197	C/ TOC SC NA P 13 L 17 # 200 Dove, Daniel Dove Networking Solut
Comment Type T "Valid classification r	Comment Status A esults are Classes from 0 to 8, a	as listed in Tabl	PSE Classificiation e 33.7."	Comment Type ER Comment Status A Editoria Typo on word poweer.
	ining the above statement is in support multiple event classification			SuggestedRemedy Replace with word power.
SuggestedRemedy Change the text back		4 oo listad in T		Response Response Status C ACCEPT.
Response	esults are Classes 0,1,2,3, and Response Status C	4, as listed in 1	able 33.7"	EZ
ACCEPT. EZ				Cl 33 SC 33.1.4 P 22 L 47 # 201 Dove, Daniel Dove Networking Solut
C/ 33 SC 33.2.7	P 64	L 25	# 198	Comment Type ER Comment Status A Editoria. Grammar error "at PSE PI".
	Cisco Systems Comment Status A 1: Tmpdo nentations that utilize separate of MPS for both pair-sets.		PSE MPS	SuggestedRemedy Replace with "at PSE's PI". Response Response Status C ACCEPT IN PRINCIPLE.
SuggestedRemedy) from 0.354s to 0.320s			Do not implement suggest remedy. OBE by comment # 23
Response ACCEPT.	Response Status C			C/ 33 SC 33.1.4.1 P 23 L 6 # 202 Dove, Daniel Dove Networking Solut
C/ 33 SC 33.4.1 Bullock, Chris	P 96 Cisco Systems	L 30	# 199	Comment Type TR Comment Status A Editoria The word "approximately" is inappropriate Editorial Editorial Editorial
Comment Type T Item 3 in Table 33-19	Comment Status A Da: Tmpdo_pd			SuggestedRemedy Replace with the word "essentially" as this is more appropriate in this context
	requesting Tmpdo to be change d in order to ensure that there is			Response Response Status C ACCEPT IN PRINCIPLE.
also adjust Tmpdo_p				Replace "this is approximately" with "typically this is"
SuggestedRemedy	max) from 318ms to 300ms for	Type 3,4 If long	first class event.	

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

<i>Cl</i> 33 <i>SC</i> 33.1.4.1 Dove, Daniel	P 23 L 8 Dove Networking Solu		C/ 33 SC 33.2.2 Dove, Daniel	Р 31 Dove Networki	L 50 ng Solut	# 205
Comment Type ER Incorrect statement	Comment Status A	System Power	Comment Type TR Missing descriptive illus	Comment Status A trations for Single/Dual signations	ture PDs	Definitions
SuggestedRemedy Replace "found" with "t	vpically found"		SuggestedRemedy Add figure(s) showing si	ingle signature PD and dual s	signature PD co	onfiguration.
Response ACCEPT.	Response Status C		Response ACCEPT IN PRINCIPLE	Response Status C		
EZ C/ 33 SC 33.2.2 Dove, Daniel	P 25 L 2 Dove Networking Solu		would begin to infringe of	ns of single-signature and duon implementations. ramson 03 0315 (shown bel		Os to 1.4. Figures
name them based on ty SuggestedRemedy	Comment Status A ome of the new technologies like 2.50 ype of technology or bandwidth rather on with group deciding if we want this a	r than specific to PHY?	signature, and maintain Dual-Signature PD: A F	PD that shares the same de power signature between bot PD that has independent dete n power signatures on each p P 32	th pair sets.	
Response	Response Status C		Dove, Daniel	P 32 Dove Networki		# 206
	E. t results in no changes to the text. ment when BZ text has stabilized.	Comment Type TR Missing explanation for SuggestedRemedy Add explanation in the to	Comment Status D why AltA (MDI) and AltB(X) a ext	re not allowed t	PSE Types for Type 4 PSEs	
			Proposed Response REJECT.	Response Status Z		

No reason to add explanation to text. The requirements are the important part.

C/ 33 SC 33.2.4.3 Dove, Daniel	P 34 Dove Network	<i>L</i> 41 ng Solut	# 207	Cl 33 SC 33. Dove, Daniel	2.4.7	P 44 Dove Networ	L 54 rking Solut	# 210
Comment Type ER Wrong word	Comment Status A		Editorial	This is the Type	R Comment 3 and Type 4 PSE	t Status A Classification S	State Diagram	PSE State Diagram
SuggestedRemedy Replace "yields" with "yie	eld".			SuggestedRemedy Replace the diag	gram with the origin	al diagram (802	2.3at-2012)	
Response ACCEPT IN PRINCIPLE	Response Status C			Response ACCEPT IN PRI	•	Status C		
OBE by comment # 208				OBE by commer	nt # 188.			
EZ				EZ				
C/ 33 SC 33.2.4.3 Dove, Daniel	P 34 Dove Network	L 41 ng Solut	# 208	<i>Cl</i> 33 SC 33. Dove, Daniel	2.4.7	P 45 Dove Networ	L 30 rking Solut	# 211
Comment Type ER Wrong word	Comment Status A		Editorial			t Status A s images for ter	mporary placement.	Editorial
Response ACCEPT IN PRINCIPLE	place sentence with "do_de <i>Response Status</i> C to "yields" in True definition	,		These need to be width/font/etc. <i>Response</i> ACCEPT. EZ		ameMaker and t	formatted for the pro	per page
EZ				Cl 33 SC 33. Dove, Daniel	2.4.7	P 45 Dove Networ	L 30 rking Solut	# 212
Cl 33 SC 33.2.4.6 Dove, Daniel Comment Type ER Inconsistent naming of "o	P 41 Dove Network Comment Status A dual-signature" ie: hyphenat	-	# 209 Editorial		ne hierarchical bloc	<i>t Status</i> A ks in the state d	liagram would be mo	PSE State Diagram pre clear if each
SuggestedRemedy Do a word search and re	place "dual-signature" with '	dual signature"		For each section	n, use a different titl relivering Power Sta		n State Diagram, PS c.	E Searching State
Response ACCEPT IN PRINCIPLE	Response Status C	5		Response ACCEPT.	Response	Status C		
Replace any occurances as adjectives describing	of "dual signature" with "du a PD or configuration.	al-signature" as	they should be used	EZ				
EZ								

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn SORT ORDER: Comment ID C/ 33 SC 33.2.4.7 P 46 L 30 # 213 C/ 33 SC 33.2.4.7 P 50 L 35 # 216 Dove, Daniel Dove Networking Solut Dove, Daniel **Dove Networking Solut** Comment Type TR Comment Status A PSE State Diagram Comment Type ER Comment Status A Editorial Missing T14A Typo "poweer" SuggestedRemedy SuggestedRemedy Add T14A Search/Replace with "power" Response Response Status C Response Response Status C ACCEPT IN PRINCIPLE. ACCEPT. ΕZ Dan to update in future draft. C/ 33 SC 33.2.4.7 P 50 L 51 # 217 No changes to the draft result from accepting this comment. Dove, Daniel **Dove Networking Solut** C/ 33 SC 33.2.4.7 P 48 L 47 # 214 Comment Status D PSE Detection Comment Type **TR** Dove. Daniel Dove Networking Solut The last statement in this paragraph claims to preserve clarity, but I think it actually Comment Type **TR** Comment Status A PSE State Diagram reduces clarity Missing Type 3 and Type 4 Classification State Diagram SuggestedRemedy SuggestedRemedy Either clarify exactly why the link is not being called out, or correct this statement to make it more clear Add The diagram, title, etc. Proposed Response Response Status Z Response Response Status C REJECT. ACCEPT IN PRINCIPLE. This comment was WITHDRAWN by the commenter. OBE by comment #231 ΕZ This is existing text that we are not changing as part of .3bt. C/ 33 SC 33.2.4.7 P 50 L 29 # 215 This can be filed as a maintenance request. Dove, Daniel Dove Networking Solut Comment Type ER Comment Status A Editorial Typo "Detec Eval" SuggestedRemedy Replace with "Detect Eval" Response Response Status C ACCEPT. ΕZ

CI 33 SC 33.2.7.7	P 68	L 48	# 218	C/ 33 SC 33.1.4.1		L 5	# 221
Dove, Daniel	Dove Network	ing Solut		Schindler, Fred	Seen Simply		
Comment Type ER	Comment Status A		Editorial	Comment Type ER	Comment Status A		System Power
Typo "fromany"					s to suggest that CAT-3 cables		
SuggestedRemedy					s not permitted by other specific t provide a requirement beyon		
Replace with "from any"				SuggestedRemedy			
Response	Response Status C			Suggesteurkernedy Strike the added sent	0000		
ACCEPT IN PRINCIPLE				"The supply of power	over the data connection is int abling that is normally installed		
OBE by comment # 148	•			true but may require s transmitted over all s	some further attention. Power a becified premises cabling with	t Type 1 power	levels may be ctions. Higher power
EZ					avier guage conductors than a nly) in some lighter guage Clas		
C/ 33 SC 335.1.1a	P 110	L 42	# 219	Response	Response Status C		able.
Dove, Daniel	Dove Network	ing Solut		ACCEPT IN PRINCIF	•		
Comment Type ER Typo "poweer"	Comment Status A		Editorial	Replace text with:			
SuggestedRemedy Search/Replace with "po	ower"			"Type 1 power levels requirements specifie	may be transmitted over all sp d in Table 33-1."	ecified premise	s cabling that meets the
Response	Response Status C			This overrides text fro	m maintenance comment again	nst D0.4.	
ACCEPT IN PRINCIPLE	<u>.</u>			CI 33 SC 33.2.2	P 25	L 38	# 222
OBE by comment # 154	l.			Schindler, Fred	Seen Simply		
EZ				Comment Type ER	Comment Status A		Midspan
C/ 33 SC 33.2.4.7	P 46	L 19	# 220		for the added sentence. The orhether it is 2P or 4P capable.	lata rate passe	d through a midspan
Dove, Daniel	Dove Network	ing Solut		SuggestedRemedy			
Comment Type TR The do_connection_che added	Comment Status A eck function needs to be add	ed. 4PID functi	Pres: State Diagram on may also need to be	Strike the sentence, "Additionally, 1000BA power."	SE-T and 10GBASE-T Midspa	n PSEs may b	e capable of 4-pair
SuggestedRemedy				Response	Response Status C		
	specific recommendations.			ACCEPT.			
Response ACCEPT IN PRINCIPLE	Response Status C						
Dan to provide updated	diagram with new state diag	ram names an	d T14A added for draft				

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

Comment ID 222

C/ 33 SC 33.2.3 Schindler, Fred	P 33 L 26 Seen Simply	# 223	Cl 33 SC 33 Schindler, Fred	.2.4.4	P 35 Seen Simply	L 5	# 225
Comment Type TR Comment Type 3 PSE that provide more than 3 SuggestedRemedy	Status A	4-Pair Power		date	ent Status D		4P11
Replace "Type 1, Type 2 or Type 3 PSEs sha 4 PSEs shall implement Alternative A and Alternat with "Type 1, Type 2 or Type 3 PSEs sha	tive B."		open for comme SuggestedRemedy	out a related state ent until the relate	d state diagram is p	provided.	ariables need to be left nd one subsequent
3 PSEs providing class 5 or 6 power and Alternative B." Response Response 3 ACCEPT IN PRINCIPLE.	levels and Type 4 PSEs shal		comment cycle Proposed Response REJECT. This comment w	e Respon	se Status Z	r.	
Replace with: "Type 1, Type 2, and Type 3 PSEs s Type 3 PSEs providing class 5 or 6 p Alternative A and Alternative B."			21	FR Comme	P 35 Seen Simply ent Status A r deny_dual_sig_4p	L 27	# 226 4PI
C/ 33 SC 33.2.4.4 Schindler, Fred Comment Type TR Comment	P 35 L 7 Seen Simply	# 224 4PID	interoperability.	They appear to b	be implementation s	specific. Some	dual signature PDs D is implementation
This text used may confuse readers SuggestedRemedy Strike text, "is used to do physical la	as to what this variable accon				check, which indicated by the second se		PD is a single or dual 1.
Response Res			Strike variable d <i>Response</i> ACCEPT.)=	air_power and asso se Status C	ociated text.	

C/ 33 SC 33.2.4.4		L 3	# 227	C/ 33 SC 33.2.4.6 P 41 L 48 # 229	
Schindler, Fred	Seen Simply			Schindler, Fred Seen Simply	
Comment Type ER Table 33-3 column ps reader. SuggestedRemedy	Comment Status A se_dll_capable may be replace	d by text for ea	PSE State Diagi sier processing by the	Comment Type TR Comment Status A PSE State Dia Function do_detection appears to be incomplete. Some PSE implementations will pow one pairset when a valid detection signature is present. The text should be written with respect to PSE behavior.	ver
On page 38, line 8 re	nlago toxt			SuggestedRemedy	
"See 33.6 for a descr permutations of this v "See 33.6 for a descr be TRUE for Type 2 I	iption of Data Link Layer functi variable with PSE Type and cla iption of Data Link Layer functi PSEs with class_num_events of of Table 33-3 were considered	ss_num_events onality. Variabl of 1."	s." With le pse_dll_capable sha	Replace "valid: The PSE has detected a PD requesting power." With "valid_A: The PSE has detected a valid PD detection signature on ALT A. valid_B: The PSE has detected a valid PD detection signature on power on ALT B. Valid_AB: The PSE has detected a valid PD detection signature on power on ALT A an ALT B."	ıd
Response	Response Status C			Strike out text, "both_alts_valid:A Type 3 or Type 4 PSE has detected a PD requesting power on	
ACCEPT IN PRINCIP	PLE.			both pair sets."	
	iption of Data Link Layer functi			"This variable indicates the presence or absence of a PD." Should be replaced by	
	iption of Data Link Layer functi PSEs with class_num_events o	onality. Variabl	e pse_dll_capable sha	"This variable indicates the presence or absence of a valid PD detection signature."	
^{''} See 33.6 for a descr be TRUE for Type 2 I pse_dll_capable eithe	iption of Data Link Layer functi PSEs with class_num_events o	onality. Variabl	e pse_dll_capable sha	Flag this comment with FRS-2. <i>Response Response Status</i> C	
"See 33.6 for a descr be TRUE for Type 2 I pse_dll_capable eithe Remove pse_dll_cap	iption of Data Link Layer functi PSEs with class_num_events of er TRUE or FALSE." able column from table 33-3.	onality. Variabl	e pse_dll_capable sha	Flag this comment with FRS-2.	
"See 33.6 for a descr be TRUE for Type 2 I pse_dll_capable eithe Remove pse_dll_cap	iption of Data Link Layer functi PSEs with class_num_events of er TRUE or FALSE." able column from table 33-3.	onality. Variabl of 1. All other P	le pse_dll_capable sha SEs may have	Flag this comment with FRS-2. <i>Response Response Status</i> C ACCEPT IN PRINCIPLE. Replace "valid: The PSE has detected a PD requesting power." With:	
"See 33.6 for a descr be TRUE for Type 2 I pse_dll_capable eithe Remove pse_dll_cap C/ 33 SC 33.2.4.6 Schindler, Fred	iption of Data Link Layer functi PSEs with class_num_events of er TRUE or FALSE." able column from table 33-3.	onality. Variabl of 1. All other P	le pse_dll_capable sha SEs may have	Flag this comment with FRS-2. <i>Response Response Status C</i> ACCEPT IN PRINCIPLE. Replace "valid: The PSE has detected a PD requesting power." With: "valid: The PSE has detected a PD requesting power. Used only by Type 1 and Type 2	2
"See 33.6 for a descr be TRUE for Type 2 I pse_dll_capable eithe Remove pse_dll_cap C/ 33 SC 33.2.4.6 Schindler, Fred	iption of Data Link Layer function PSEs with class_num_events of er TRUE or FALSE." able column from table 33-3. B P 41 Seen Simply Comment Status A	onality. Variabl of 1. All other P	le pse_dll_capable sha PSEs may have # 228	Flag this comment with FRS-2. Response Response Status C ACCEPT IN PRINCIPLE. Replace "valid: The PSE has detected a PD requesting power." With: "valid: The PSE has detected a PD requesting power. Used only by Type 1 and Type 2 PSEs. valid_A: The PSE has detected a valid PD detection signature on ALT A and not on AL	
"See 33.6 for a descr be TRUE for Type 2 I pse_dll_capable eithe Remove pse_dll_cap C/ 33 SC 33.2.4.6 Schindler, Fred Comment Type ER Fix Typo "wwhether".	iption of Data Link Layer function PSEs with class_num_events of er TRUE or FALSE." able column from table 33-3. B P 41 Seen Simply Comment Status A	onality. Variabl of 1. All other P	le pse_dll_capable sha PSEs may have # 228	Flag this comment with FRS-2. Response Response Status C ACCEPT IN PRINCIPLE. Replace "valid: The PSE has detected a PD requesting power." With: "valid: The PSE has detected a PD requesting power. Used only by Type 1 and Type 2 PSEs. valid_A: The PSE has detected a valid PD detection signature on ALT A and not on AL Used only by Type 3 and Type 4 PSEs.	TB.
"See 33.6 for a descr be TRUE for Type 2 I pse_dll_capable eithe Remove pse_dll_cap C/ 33 SC 33.2.4.6 Schindler, Fred Comment Type ER Fix Typo "wwhether".	iption of Data Link Layer function PSEs with class_num_events of er TRUE or FALSE." able column from table 33-3. B P 41 Seen Simply Comment Status A	onality. Variabl of 1. All other P	le pse_dll_capable sha PSEs may have # 228	Flag this comment with FRS-2. Response Response Status C ACCEPT IN PRINCIPLE. Replace "valid: The PSE has detected a PD requesting power." With: "valid: The PSE has detected a PD requesting power. Used only by Type 1 and Type 2 PSEs. valid_A: The PSE has detected a valid PD detection signature on ALT A and not on AL Used only by Type 3 and Type 4 PSEs. valid_B: The PSE has detected a valid PD detection signature on ALT B and not on AL A. Used only by Type 3 and Type 4 PSEs.	TB.
"See 33.6 for a descr be TRUE for Type 2 I pse_dll_capable eithe Remove pse_dll_cap Cl 33 SC 33.2.4.6 Schindler, Fred Comment Type ER Fix Typo "wwhether". SuggestedRemedy Use "whether".	iption of Data Link Layer function PSEs with class_num_events of er TRUE or FALSE." able column from table 33-3. B P 41 Seen Simply Comment Status A	onality. Variabl of 1. All other P	le pse_dll_capable sha PSEs may have # 228	Flag this comment with FRS-2. Response Response Status C ACCEPT IN PRINCIPLE. Replace "valid: The PSE has detected a PD requesting power." With: "valid: The PSE has detected a PD requesting power. Used only by Type 1 and Type 2 PSEs. valid_A: The PSE has detected a valid PD detection signature on ALT A and not on AL Used only by Type 3 and Type 4 PSEs. valid_B: The PSE has detected a valid PD detection signature on ALT B and not on AL A. Used only by Type 3 and Type 4 PSEs. valid_AB: The PSE has detected a valid PD detection signature on ALT A and ALT B.	TB.
"See 33.6 for a descr be TRUE for Type 2 I pse_dll_capable eithe Remove pse_dll_cap Cl 33 SC 33.2.4.6 Schindler, Fred Comment Type ER Fix Typo "wwhether". SuggestedRemedy Use "whether".	iption of Data Link Layer function PSEs with class_num_events of er TRUE or FALSE." able column from table 33-3. P 41 Seen Simply Comment Status A	onality. Variabl of 1. All other P	le pse_dll_capable sha PSEs may have # 228	Flag this comment with FRS-2. Response Response Status C ACCEPT IN PRINCIPLE. Replace "valid: The PSE has detected a PD requesting power." With: "valid: The PSE has detected a PD requesting power. Used only by Type 1 and Type 2 PSEs. valid_A: The PSE has detected a valid PD detection signature on ALT A and not on AL Used only by Type 3 and Type 4 PSEs. valid_B: The PSE has detected a valid PD detection signature on ALT B and not on AL A. Used only by Type 3 and Type 4 PSEs.	TB.
"See 33.6 for a descr be TRUE for Type 2 I pse_dll_capable eithe Remove pse_dll_cap Cl 33 SC 33.2.4.6 Schindler, Fred Comment Type ER Fix Typo "wwhether". SuggestedRemedy Use "whether". Response	iption of Data Link Layer function PSEs with class_num_events of er TRUE or FALSE." able column from table 33-3. P 41 Seen Simply <i>Comment Status</i> A	onality. Variabl of 1. All other P	le pse_dll_capable sha PSEs may have # 228	Flag this comment with FRS-2. Response Response Status C ACCEPT IN PRINCIPLE. Replace "valid: The PSE has detected a PD requesting power." With: "valid: The PSE has detected a PD requesting power. Used only by Type 1 and Type 2 PSEs. valid_A: The PSE has detected a valid PD detection signature on ALT A and not on AL Used only by Type 3 and Type 4 PSEs. valid_B: The PSE has detected a valid PD detection signature on ALT B and not on AL A. Used only by Type 3 and Type 4 PSEs. valid_AB: The PSE has detected a valid PD detection signature on ALT A and ALT B. Used only by Type 3 and Type 4 PSEs. valid_AB: The PSE has detected a valid PD detection signature on ALT A and ALT B. Used only by Type 3 and Type 4 PSEs."	TB.
"See 33.6 for a descr be TRUE for Type 2 I pse_dll_capable eithe Remove pse_dll_cap Cl 33 SC 33.2.4.6 Schindler, Fred Comment Type ER Fix Typo "wwhether". SuggestedRemedy Use "whether". Response ACCEPT.	iption of Data Link Layer function PSEs with class_num_events of er TRUE or FALSE." able column from table 33-3. P 41 Seen Simply <i>Comment Status</i> A	onality. Variabl of 1. All other P	le pse_dll_capable sha PSEs may have # 228	Flag this comment with FRS-2. Response Response Status C ACCEPT IN PRINCIPLE. Replace "valid: The PSE has detected a PD requesting power." With: "valid: The PSE has detected a PD requesting power. Used only by Type 1 and Type 2 PSEs. valid_A: The PSE has detected a valid PD detection signature on ALT A and not on AL Used only by Type 3 and Type 4 PSEs. valid_B: The PSE has detected a valid PD detection signature on ALT B and not on AL A. Used only by Type 3 and Type 4 PSEs. valid_AB: The PSE has detected a valid PD detection signature on ALT B and not on AL A. Used only by Type 3 and Type 4 PSEs. valid_AB: The PSE has detected a valid PD detection signature on ALT A and ALT B. Used only by Type 3 and Type 4 PSEs."	TB.
"See 33.6 for a descr be TRUE for Type 2 I pse_dll_capable eithe Remove pse_dll_cap Cl 33 SC 33.2.4.6 Schindler, Fred Comment Type ER Fix Typo "wwhether". SuggestedRemedy Use "whether". Response ACCEPT.	iption of Data Link Layer function PSEs with class_num_events of er TRUE or FALSE." able column from table 33-3. P 41 Seen Simply <i>Comment Status</i> A	onality. Variabl of 1. All other P	le pse_dll_capable sha PSEs may have # 228	Flag this comment with FRS-2. Response Response Status C ACCEPT IN PRINCIPLE. Replace "valid: The PSE has detected a PD requesting power." With: "valid: The PSE has detected a PD requesting power. Used only by Type 1 and Type 2 PSEs. valid_A: The PSE has detected a valid PD detection signature on ALT A and not on AL Used only by Type 3 and Type 4 PSEs. valid_B: The PSE has detected a valid PD detection signature on ALT B and not on AL A. Used only by Type 3 and Type 4 PSEs. valid_AB: The PSE has detected a valid PD detection signature on ALT B and not on AL Used only by Type 3 and Type 4 PSEs. valid_AB: The PSE has detected a valid PD detection signature on ALT A and ALT B. Used only by Type 3 and Type 4 PSEs." Strike out text, "both_alts_valid:A Type 3 or Type 4 PSE has detected a PD requesting power on both pair sets." Text, "This variable indicates the presence or absence of a PD." Should be replaced by	TB.
"See 33.6 for a descr be TRUE for Type 2 I pse_dll_capable eithe Remove pse_dll_cap Cl 33 SC 33.2.4.6 Schindler, Fred Comment Type ER Fix Typo "wwhether". SuggestedRemedy Use "whether". Response ACCEPT.	iption of Data Link Layer function PSEs with class_num_events of er TRUE or FALSE." able column from table 33-3. P 41 Seen Simply <i>Comment Status</i> A	onality. Variabl of 1. All other P	le pse_dll_capable sha PSEs may have # 228	Flag this comment with FRS-2. Response Response Status C ACCEPT IN PRINCIPLE. Replace "valid: The PSE has detected a PD requesting power." With: "valid: The PSE has detected a PD requesting power. Used only by Type 1 and Type 2 PSEs. valid_A: The PSE has detected a valid PD detection signature on ALT A and not on AL Used only by Type 3 and Type 4 PSEs. valid_B: The PSE has detected a valid PD detection signature on ALT B and not on AL A. Used only by Type 3 and Type 4 PSEs. valid_AB: The PSE has detected a valid PD detection signature on ALT A and ALT B. Used only by Type 3 and Type 4 PSEs. valid_AB: The PSE has detected a valid PD detection signature on ALT A and ALT B. Used only by Type 3 and Type 4 PSEs." Strike out text, "both_alts_valid:A Type 3 or Type 4 PSE has detected a PD requesting power on both pair sets." Text,	TB.

SORT ORDER: Comment ID

(S Flag this comment with FRS-2. Comment Type TR C/ 33 P 21 # 230 SC 33.1.3 L 39 Schindler, Fred Seen Simply Comment Status A Comment Type TR Editorial The definitions (line 39 and line 41) referenced both the IEEE 802.3-2012 and the in progress revision P802.3bx/D2.0. I do not have the private password to check the unpublished P802.3bx/D2.0 draft. I am not able to confirm if this reference is acceptable or whether it is the same as the public specification. SuggestedRemedy If the text is the same in both referenced documents then remove the P802.3bx/D2.0 reference so that there is no confusion as to what the definition is. I am okay with the definitions in the IEEE 802.3-2012 specification. If the definition has changed we should review the definition potentially accept or change it. Response Response Status C ACCEPT IN PRINCIPLE. Accepting this comment cause no changes to the draft.

Replace any references in the draft to "both alts valid" with "valid AB".

CI 33	SC 33.2.4.7	P 44	L 1	# 231
Schindler, I	Fred	Seen Simply		

The modified legacy state diagram for classification provides a suitable starting point for classification for all PSE Types. The new Figure 33-9a Type 3 and Type 4 PSE state diagram does not provide the details already covered by the improved legacy state diagram.

SuggestedRemedy

Replace the figure on page 44 with the legacy IEEE 802.3-2012 figure 33-9.

Comment Status A

Then move the .3BT Draft 1.0 figure and caption after the last figure labeled "Figure 33-9A - Type 3 and Type 4 PSE state diagram (continued)." Change the "Figure 33-9-Type 1 and Type 2 PSE state diagram (continued)" to "Figure 33-9A - Type 3 and Type 4 PSE state diagram (continued)."

Response Response Status C

ACCEPT IN PRINCIPLE.

Partial OBE by comment # 188.

move the .3BT Draft 1.0 figure and caption after the last figure labeled "Figure 33-9A -Type 3 and Type 4 PSE state diagram (continued)." Change the "Figure 33-9-Type 1 and Type 2 PSE state diagram (continued)" to "Figure 33-9A - Type 3 and Type 4 PSE state diagram (continued)."

ΕZ

CI 33	SC 33.2.4.7	P 47	L 1	# 232
Schindler,	Fred	Seen Simply		

Comment Type TR Comment Status A PSE State Diagram

PSE State Diagram

The state diagram provided in Figure 33-9a does not include Type 3 and Type 4 PSE requirements. It is not suppose to include Type 1 and Type 2 requirements. It appears to only show Type 1 and Type 2 requirements.

SugaestedRemedv

Remove the state diagram on pages 47-49 and replace with, "Editor's Note: The state diagram for Type 3 and Type 4 PSEs needs further study and participants are encouraged to provide presentations to address this need."

Response Status C

ACCEPT IN PRINCIPLE.

Do not remove state diagrams.

Add Editor's Note in suggested remedy below Type 3/4 PSE State Diagram.

Comment ID 232

Page 55 of 98 6/19/2015 9:18:01 AM

Response

C/ 33 SC 33.2.4.7	P 45	L 1	# 233	CI 33	SC 33.2.5	P 50	L 46	# 234	
Schindler, Fred	Seen Simply		# 233	Schindler, Fr		Seen Simply	L 40	# 234	
Comment Type TR	Comment Status A		PSE State Diagram	Comment Ty	pe TR	Comment Status A		PSE Detection	
existing approach. The	vided in Figure 33-9a was created existing approach takes two plach takes 5 pages and does not sary requirements.	pages to cove	r Type 1 and Type 2	The text, "Specific prior to a power to	pplying	nd Type 4 PSEs shall apply th	ne detection prob	be to both pair sets	
	uld be considered and the sugg on for Type 3 and Type 4 PSE		ach should be discussed	The prior	sentence rec	guage, adds text that may con juires PSEs to only power pair			
SuggestedRemedy				i nis aiso	applies to Ty	pe 3 and Type 4 devices.			
state diagrams. I recor	For all past PoE efforts, Task Force meeting time was devoted to discussing and refining state diagrams. I recommend that this approach is also taken during .3bt meetings and that we provide time for others to present alternative approaches to solving this problem.				The added sentence requires a detection probe on both pair sets. This language is not clear. Is a probe without a valid detection all that is necessary? Is the probe done on both pair sets at the same time?				
Response	Response Status C			SuggestedRe	emedy				
ACCEPT IN PRINCIPL	E.			Strike the sentence,					
No changes to the text	result from accepting this com	ment.			ally, Type 3 a pplying powe	nd Type 4 PSEs shall apply th r to 4 pairs."	ne detection prot	be to both pair sets	
				Response		Response Status C			
				ACCEPT					
				OBE by o	comment # 9.				
				EZ					

236

PSE Classification

CI 33	SC 33.2.6.1	P 58	L 11	# 235
Schindler, Fr	red	Seen Simply		
Comment Ty	vpe TR	Comment Status A		4PID

The text,

"The PSE shall provide to the PI VClass with a current limitation of IClass_LIM, as defined in Table 33-10." Need to be updated to support Type 3 and Type 4 classification.

Application of the classification voltage to a pair set with an invalid detection signature may permanently damage a device. For example, Bob Smith termination resistors (0.125W typically). During detection, which is not likely to cause device damage, the PSE may provide 5mA short-circuit current and up to 30V open circuit. This permits up to 37.5 mW to device during detection. Classification permits ($20.5V \times 0.1A$) up to 2.1W to be dissipated in a device. Legacy PSEs detect, classify and power on using the same Alternative (pair set).

New PSE may detect, classify, and power on, on all pair sets of the PI. Therefore, we need to prevent damage to network equipment.

SuggestedRemedy

Modify the sentence as follows,

"The PSE shall provide to a pair set VClass with a current limitation of IClass_LIM, as defined in Table 33-10 only for a pair set with a valid detection signature."

ACCI	EPT.				
C/ 33	SC 33.2.5.6	P 5	7	L 45	#

Schindler, Fred

Seen Simply Comment Status A

Comment Type TR Comment Status A

The text needs to be updated to support Type 3 and Type 4 classification.

SuggestedRemedy

Add to the end of the paragraph on line 45, the sentence, "Both pair sets of the PI attached to a Dual Signature PDs shall be classified by Type 3 and Type 4 PSEs."

Response Response Status C

ACCEPT IN PRINCIPLE.

Add to the end of the paragraph on line 45, the sentence, "Both pair sets attached to a Dual Signature PD shall (TBD) be classified by Type 3 and Type 4 PSEs that will deliver 4-pair power."

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

C/ 33	SC 33.2.5.6	P 57	L 49	# 237
Schindler, Fr	ed	Seen Simply		
Comment Ty	pe TR	Comment Status R		4PID

Text needs to show that a TBD state diagram may identify single signature or dual signature PDs and how to process them.

Note: This comment is flagged with comment-FRS1 for easy searching.

SuggestedRemedy

After the paragraph ending on line 49, add the new paragraph,

"The connection check, described in 33.2.5.0, and the results of other system information, determine the value of variable pd_4pair_candidate, defined in 33.2.4.4. PSEs shall comply with the TBD state diagram, which determines the power requirements for pair sets predetermined to be connected to a PD capable of accepting power on both pair sets, see 33.2.5.6."

Response Response Status C

REJECT.

802.3 clearly says that the state diagram takes precedence. All other information here is redundant to the 4PID section.

C/ 33	SC 33.2.7.7	P 68	L 43	# 238	CI 33	SC 33.3.1	P 74	L 38	# 239
Schindler,	Fred	Seen Simply			Schindler,	Fred	Seen Simply		
Comment	Type TR	Comment Status A		PSE Power	Comment	Type TR	Comment Status D		4PID

The changed text.

'The "PSE lowerbound template" and "PSE upperbound template" are shown in Figure 33-14.

When connected to a single signature PD, a Type 3 or Type 4 PSE may remove power from both pair sets if the current draw exceeds the "PSE lowerbound template" on either pair set, and shall remove power from both pair sets if the current draw exceeds the "PSE upper bound template" on either pair set. When connected to a dual signature PD, a Type 3 or Type 4 PSE may remove power from the any pair set PI if the PI pair-set current meets or that exceeds the "PSE lowerbound template" and in Figure 33-14. Power shall be removed from the PI of a PSE before the PI current remove power from any pair set that exceeds the "PSE upperbound template". In Figure 33-14. Power may be removed from both pair sets any time power is removed from one pair set.'

Has broke legacy requirements, places unnecessary restrictions on PSEs, adds unnecessary text, and contains typos.

This new text no longer covers legacy PSEs. Permissible operations do not need to be repeated. The existing text addresses both legacy and new Types.

SuggestedRemedy

Restore the original text with the following minor edit,

'A PSE may remove power from the PI if the PI current meets or exceeds the "PSE lowerbound template" in Figure 33-14. Power shall be removed from a pair set of a PSE before the pair set current exceeds the "PSE upperbound template" in Figure 33-14.'

Response

Response Status C

ACCEPT.

Would OBE comment # 302 and all comments OBEd by comment # 110.

The new sentence.

"Type 1 and Type 2 PDs wishing to avoid 4 pair power for longer than a minimal amount of time may signal this by a message via LLDP to the PSE setting the maintain_power_signature variable to false."

This text changes legacy behavior. PDs not identified as being capable of accepting power on both pair sets should never be exposed to voltages that exceed Vvalid, the detection voltage. Legacy PDs are required to provide an invalid detection signature on an unpowered pair set when powered on by a legacy PSE. An invalid detection signature indicates a PD does not want to be powered (33.2.5.4, 33.3.4).

SuggestedRemedy

Replace the sentence with, text that indicates how legacy PDs may show that they accept power on both pair sets.

"Type 1 and Type 2 PD may indicate their ability to accept power on both pair sets by providing a valid detection signature on an unpowered pairset requesting power. These PDs may indicate the ability to accept power on both pair sets using LLDP variable 4P-ID in Table 79-6b."

On page 81, line 51 replace legacy sentence,

"When a PD becomes powered via the PI, it shall present a non-valid detection signature on the set of pairs from which it is not drawing power."

With,

"When a PD becomes powered via the PI, it shall present a non-valid detection signature on the set of pairs from which it is not drawing power. A PD may present a valid detection signature on a pair set from which it is not drawing power when the PD is cable of accepting power on both pair sets. "

Proposed Response Response Status Z

PROPOSED REJECT.

This comment was WITHDRAWN by the commenter.

Replaced by comment # 254

Cl 33 SC 33.3.5.3 P 86 L 27 # 240 Schindler, Fred Seen Simply	CI 33 SC 33.3.7 P 88 L 16 # 241 Schindler, Fred Seen Simply
Comment Type TR Comment Status D Autoclass The requirements for the power measurement are incomplete. The period for the measurement is only (3.28 - 1.35) 1.93 ms long, which is not long enough to cancel out AC- line noise.	Comment Type ER Comment Status A Table 33-18 For Table 33-18 item 4 for class 6 and class 8, add a note to guide the reader on permissible allowances. The reference note covers extended power. Table 33-18
SuggestedRemedy Change variable item 3, TAUTO_PD2 minimum of Table 33-17a from 3.28 ms to 200 ms. Note that a sliding window 100 ms wide is an integer multiple of common 50 and 60 Hz AC line voltages.	SuggestedRemedy "See 33.3.7.2" in the Additional information column of Table 33-18 for item 4, class 6 and 8. Response Response Status C ACCEPT IN PRINCIPLE.
Replace the existing sentence, "After power up, PDs implementing Auto class shall consume their maximum power draw throughout the period bounded by TAUTO_PD1 and TAUTO_PD2, measured from when VPort_PD rises above VPort_PD min. The PD shall not draw more power than the power consumed during the time from TAUTO_PD1 to TAUTO_PD2 plus TBD% at any point until VPort_PD falls below VReset th."	OBE by comment # 152. EZ C/ 33 SC 33.3.8 P 96 L 10 # 242
With, "After power up, PDs implementing Auto class shall consume their maximum power draw throughout the period bounded by TAUTO_PD1 and TAUTO_PD2, averaged using a 100 ms wide sliding window, from when VPort_PD rises above VPort_PD min. The PD shall not draw more power than the power consumed during the time from TAUTO_PD1 to TAUTO_PD2 plus TBD% at any point until VPort_PD falls below VReset_th."	Schindler, Fred Seen Simply Comment Type TR Comment Status A PD MPS Table 33-19a does not cover Type 1 and Type 2 dual signature PDs but does cover Dual signature Type 3 and 4 PDs. MPS requirements for Dual signature PDs may be covered using text. SuggestedRemedy Strike Table 33-19a item 1, last row. Add the following text to 33.3.8, page 95, after line 2,
Proposed Response Response Status Z REJECT.	"The MPS requirements of Dual Signature PDs shall be half of the current value of Single Signature PDs."
This comment was WITHDRAWN by the commenter.	Response Response Status C ACCEPT IN PRINCIPLE.
Partial OBE by comment # 113. No changes result from this comment.	Replace first two bullets in conditions column of top row of item 1 in Table 33-19a with "All Type 1 and Type 2 PDs and Type 3 Single Signature PDs with Pclass_PD <= PD class 4 power limit."

No changes result from this comment.

Cl 33 SC 33.4.9.1.4c P 107 L 34 # 243	CI 33 SC 33.2.5.6 P 54 L 47 # 245
Schindler, Fred Seen Simply	Schindler, Fred Seen Simply
Comment Type ER Comment Status A AES	Comment Type TR Comment Status R 4
The text, "Midspan PSEs intended for operation with 10GBASE-T (types 5 & 6 in Clause 33.4.9.1) are Additionally required to meet the following parameters for coupling signals between ports	The text "It shall be stored in the variable pd_4pair_candidate, defined in 33.2.4.4." Implie that variable pd_4pair_candidate indicates that the attached class 0 to 4 PD accepts pow on both pair sets. This is incorrect.
relating to different link segments."	The connection check (33.2.5.0) and detection alone are not able to determine if a legacy PD is able to accept power on both Modes. These methods reduce the likelihood of
May be in error or is confusing. What are types 5 & 6?	interoperability issues for PDs capable of accepting power on both Modes (single and du
SuggestedRemedy	signature PDs). The .3bt classification process provides a means to identify PD Types th accept power on both Modes. Classification results in the PD Type and LLDP data that
Get an expert opinion and craft a sentence that does not confuse referenced types with PoE Types.	indicates PD ability to accept power on both pair sets. Type 3 and Type 4 PDs are required to support power on both pair sets. Type 1 and Type 2 PDs may accept power of
Response Response Status C	both pair sets.
ACCEPT IN PRINCIPLE.	SuggestedRemedy
	Replace the entire text of 33.2.5.6 with,
Editor to change "types" in the paranthetical in the text referenced in the comment and in Clause 33.4.9.1 (page 105 line 14) to "variants" where ever appropriate.	"Type 3 and Type 4 PSEs shall determine whether an attached PD with classes 0 to 4 is candidate to receive power on both pair sets prior to applying 4 pair power. This determination is referred to as 4PID. Classification in 33.2.6 may be used to obtain the F
	Type and may be used to obtain LLDP variable PD 4P-ID in Table 79-6b. PSEs may power both PD modes of Type 3 and Type 4 PDs, and Type 1 and Type 2 PDs that have
Schindler, Fred Seen Simply	Type and may be used to obtain LLDP variable PD 4P-ID in Table 79-6b. PSEs may
Schindler, Fred Seen Simply Comment Type ER Comment Status A	Type and may be used to obtain LLDP variable PD 4P-ID in Table 79-6b. PSEs may power both PD modes of Type 3 and Type 4 PDs, and Type 1 and Type 2 PDs that have
Schindler, Fred Seen Simply Comment Type ER Comment Status A Editorial Table 33-20 column "Midspan PSE Type" header does not reference PoE Types which may confuse the reader. Editorial	Type and may be used to obtain LLDP variable PD 4P-ID in Table 79-6b. PSEs may power both PD modes of Type 3 and Type 4 PDs, and Type 1 and Type 2 PDs that have
Schindler, Fred Seen Simply Comment Type ER Comment Status A Editorial Table 33-20 column "Midspan PSE Type" header does not reference PoE Types which may confuse the reader. SuggestedRemedy SuggestedRemedy	Type and may be used to obtain LLDP variable PD 4P-ID in Table 79-6b. PSEs may power both PD modes of Type 3 and Type 4 PDs, and Type 1 and Type 2 PDs that have LLDP variable 4P-ID indicating that powering of both PD Modes is supported." Note that details related to the connection check and variable pd_4pair_candidate are covered in a separate comment. Flagged with comment-FRS-1.
Schindler, Fred Seen Simply Comment Type ER Comment Status A Table 33-20 column "Midspan PSE Type" header does not reference PoE Types which	Type and may be used to obtain LLDP variable PD 4P-ID in Table 79-6b. PSEs may power both PD modes of Type 3 and Type 4 PDs, and Type 1 and Type 2 PDs that have LLDP variable 4P-ID indicating that powering of both PD Modes is supported." Note that details related to the connection check and variable pd_4pair_candidate are covered in a separate comment. Flagged with comment-FRS-1.
Schindler, Fred Seen Simply Comment Type ER Comment Status A Table 33-20 column "Midspan PSE Type" header does not reference PoE Types which may confuse the reader. SuggestedRemedy Replace the header with,	Type and may be used to obtain LLDP variable PD 4P-ID in Table 79-6b. PSEs may power both PD modes of Type 3 and Type 4 PDs, and Type 1 and Type 2 PDs that have LLDP variable 4P-ID indicating that powering of both PD Modes is supported." Note that details related to the connection check and variable pd_4pair_candidate are covered in a separate comment. Flagged with comment-FRS-1. <i>Response Response Status</i> C REJECT. REJECT.
Schindler, Fred Seen Simply Comment Type ER Comment Status A Table 33-20 column "Midspan PSE Type" header does not reference PoE Types which may confuse the reader. SuggestedRemedy Replace the header with, "Ethernet"	Type and may be used to obtain LLDP variable PD 4P-ID in Table 79-6b. PSEs may power both PD modes of Type 3 and Type 4 PDs, and Type 1 and Type 2 PDs that have LLDP variable 4P-ID indicating that powering of both PD Modes is supported." Note that details related to the connection check and variable pd_4pair_candidate are covered in a separate comment. Flagged with comment-FRS-1. Response Response Status C
Schindler, Fred Seen Simply Comment Type ER Comment Type ER Comment Status A Table 33-20 column "Midspan PSE Type" header does not reference PoE Types which may confuse the reader. SuggestedRemedy Replace the header with, "Ethernet" Response Response Status	Type and may be used to obtain LLDP variable PD 4P-ID in Table 79-6b. PSEs may power both PD modes of Type 3 and Type 4 PDs, and Type 1 and Type 2 PDs that have LLDP variable 4P-ID indicating that powering of both PD Modes is supported." Note that details related to the connection check and variable pd_4pair_candidate are covered in a separate comment. Flagged with comment-FRS-1. <i>Response Response Status</i> C REJECT. REJECT.

C/ 33 SC 33.2 Schindler, Fred	4.4 P 34 Seen Simply	L 40	# 246	Cl 33 Schindler,	SC 33.2.6 Fred	P 55 Seen Simply	L 19	# 248
power one pairset standard did not h SuggestedRemedy	alts_valid appears to be incomple when a valid detection signature is ave a variable to indicate a valid F d be replaced by do_detection ac <i>Response Status</i> C	s present. Not D detection sig	e that the legacy nature.	"The n (33-3). Alterna RCh m pair sy	ew text, ininimum power atively, PSE imp nax when power /stems and to an e improved by to	Comment Status A output by the PSE for a particu- elementations may use VPSE ing using two-pairs, or RChan rive at over-margined values a erms already used in the spec	= VPort_PSE-2 = RCh/2 when as shown in Tab	P min and RChan = powering using four- ble 33-7."
OBE by comment C/ 33 SC 33.2 Schindler, Fred Comment Type TR		L 13	# 247 PSE Classification	Replac "The n (33-3). Alterna RCh m	ce with, ninimum power atively, PSE imp nax when power	output by the PSE for a particu elementations may use VPSE ing using two pairs sets, or Ro ver-margined values as shown	= VPort_PSE-2 han = RCh/2 w	P min and RChan = hen powering using fou
asserts a voltage of number of power of Need to be correc SuggestedRemedy "Physical Layer cla asserts a voltage of number of power of	ed for Type 3 and Type 4 PSEs. ssification occurs before a PSE s nto a pair set and the PD respon- lassifications."	with a current re	presenting a limited to a PD when the PSE	Response ACCE "The n (33-3). Alterna RCh w	PT IN PRINCIP ninimum power atively, PSE imp /hen powering u	Response Status C	ular PD class is = Vport_PSE-2 n = RCh/2 wher	defined by Equation P min and Rchan = n powering using two
Response ACCEPT.	Response Status C							

Comment ID 248

		33.2.6	P		L 26	# 249	CI 33		33.2.0a	
Schindler,	Fred		Seer	Simply			Schindler,	Fred		
Comment	Туре	ER	Comment Status	Α		Autoclass	Comment	Туре	TR	Comme
"If the the P	SE may	set its min		t based on	the power dra	and Annex 33-TBD), wn during Auto class, able 33-17 of the		operat	tion allow	ved if PSE is ould be impro
			and a minimum of							identified as
has a	typo an	d a require	ment that could be	removed.			Suggested			with
Suggeste		-					"Powe	ring of I	•	sets is allow
"and a	a minimu	um of 4.0 V		y. A PD us	sing Autoclass	removing the text, may draw up to a valid	sectior Response	1 33.2.5	o.6 have	been met Respons
in the Response		ut the lowe	r bound is determi Response Status		·S.		ACCEI	PT.		
		RINCIPLE		U			C/ 33	SC	33.2.4.4	
Repla	ce with	"Table 33-	17" with "Equation	33-3"			Schindler,	Fred		
						t mean that the PD	Comment	Туре	TR	Comme
										ed for Type
See c		33.3.2	P	76	L 7	# 250	providi reset b	y a LLI		
	SC			76 Simply	L 7	# 250	providi reset b discret	y a LLI ion.	DP mess	sage, as a re
CI 33	SC : Fred			Simply	L7	# 250 PD Types	providi reset b discret Values	y a LLI ion. :False:	DP mess Remove	age, as a re power from
CI 33 Schindler, Comment New t	SC : Fred <i>Type</i> ext,	33.3.2 ER	Seer Comment Status	A Simply		PD Types	providi reset b discret Values True: F Indicat	y a LLI ion. :False: Power r es a Pl	DP mess Remove nay be n D has be	sage, as a re power from naintained o een incorrect
Cl 33 Schindler, Comment New t "Type or gre	SC : Fred <i>Type</i> ext, 3 and T ater imp	33.3.2 ER Type 4 PDs	Seer <i>Comment Status</i> operating with a n th multiple-Event P	A A haximum p hysical La	ower draw cor	PD Types responding to Class 4 on (see 33.3.5.2) and	providi reset b discret Values True: F Indicat damag	y a LLI ion. False: Power r es a Pl je to a i	DP mess Remove may be n D has be network o	sage, as a re power from naintained o een incorrect
Cl 33 Schindler, Comment New t "Type or gre	SC : Fred <i>Type</i> ext, 3 and T ater imp	33.3.2 ER Type 4 PDs	Seer <i>Comment Status</i> operating with a n th multiple-Event P	A A haximum p hysical La	ower draw cor	PD Types	providi reset b discret Values True: F Indicat damag Suggested	y a LLI ion. False: Power r es a Pl je to a i	DP mess Remove may be n D has be network o	sage, as a re e power from naintained of een incorrect device, powe
Cl 33 Schindler, Comment New t "Type or gre Data	SC : Fred <i>Type</i> ext, 3 and T ater imp Link Lay	33.3.2 ER - Type 4 PDs olement bor er classific Table 33-1	Seer Comment Status operating with a n th multiple-Event P ation (see 33.6) ar	A A haximum p hysical La ad advertise	ower draw cor yer classificatio e a class signa	PD Types responding to Class 4 on (see 33.3.5.2) and	providi reset b discret Values True: F Indicat damag Suggested	y a LLI ion. False: Power r es a Pl le to a l <i>Remec</i> tion has	DP mess Remove may be n D has be network o	sage, as a re e power from naintained of een incorrect device, powe
Cl 33 Schindler, Comment New t "Type or gre Data	SC : Fred <i>Type</i> ext, 3 and T ater imp Link Lay	33.3.2 ER - Type 4 PDs olement bor er classific Table 33-1	Seer Comment Status operating with a n th multiple-Event P ation (see 33.6) ar	A A haximum p hysical La ad advertise	ower draw cor yer classificatio e a class signa	<i>PD Types</i> responding to Class 4 on (see 33.3.5.2) and ture of 4, 5, 6, 7 or 8."	providi reset b discret Values True: F Indicat damag Suggested A solut submit	y a LLI ion. ::False: Power r es a Pl le to a l <i>Remec</i> tion has ted.	DP mess Remove may be n D has be network o dy s been p	sage, as a re power from naintained of een incorrect device, powe rovided in th
Cl 33 Schindler, Comment New t "Type or gre Data l Confli Suggester	SC : Fred <i>Type</i> ext, 3 and T ater imp Link Lay cts with dRemeo	33.3.2 ER - Type 4 PDs olement bor er classific Table 33-1	Seer Comment Status operating with a n th multiple-Event P ation (see 33.6) ar 3a. A Type 4 PD	A A haximum p hysical La ad advertise	ower draw cor yer classificatio e a class signa	<i>PD Types</i> responding to Class 4 on (see 33.3.5.2) and ture of 4, 5, 6, 7 or 8."	providi reset b discret Values True: F Indicat damag Suggested A solut submit	y a LLI ion. ::False: Power r es a Pl le to a l <i>Remec</i> tion has ted. ate mad	DP mess Remove may be n D has be network o dy s been p	sage, as a re power from naintained of een incorrect device, powe rovided in th nen it is creat
Cl 33 Schindler, Comment New t "Type or gre Data Confli Suggester Repla "Type	SC : Fred <i>Type</i> ext, 3 and T ater imp Link Lay cts with <i>dRemea</i> ce text of 3 and T	33.3.2 ER Type 4 PDs blement bot er classific Table 33-1 ly on page 76 Type 4 PDs	Seer Comment Status operating with a n th multiple-Event P ation (see 33.6) ar 3a. A Type 4 PD with, operating with a n	A A haximum p hysical La ad advertise was create haximum p	ower draw cor yer classificatio e a class signa ed to support hi ower draw cor	<i>PD Types</i> responding to Class 4 on (see 33.3.5.2) and ture of 4, 5, 6, 7 or 8." gh power applications.	providi reset b discret Values True: F Indicat damag Suggested A solut submit The sta power	y a LLI ion. ::False: Power r es a Pl le to a l <i>Remec</i> tion has ted. ate may on all p	DP mess Remove may be n D has be network o dy s been p chine wh	sage, as a re power from naintained of een incorrect device, powe rovided in th nen it is creat
Cl 33 Schindler, Comment New t "Type or gre Data Confli Suggester Repla "Type or gre	SC : Fred <i>Type</i> ext, 3 and T ater imp ink Lay cts with <i>dRemea</i> ce text of 3 and T ater imp	33.3.2 ER Jement bor er classific Table 33-1 ly on page 76 Type 4 PDs Dement bor	Seer Comment Status operating with a n th multiple-Event P ation (see 33.6) ar 3a. A Type 4 PD with, with, operating with a n th multiple-Event P	A A haximum p hysical La id advertise was create haximum p hysical La	ower draw cor yer classificatio e a class signa ed to support hi power draw cor yer classificatio	<i>PD Types</i> responding to Class 4 on (see 33.3.5.2) and ture of 4, 5, 6, 7 or 8." gh power applications. responding to Class 4 on (see 33.3.5.2) and	providi reset b discret Values True: F Indicat damag Suggested A solut submit The sta power	y a LLI ion. ::False: Power r es a Pl le to a l <i>Remec</i> tion has ted. ate may on all p	DP mess Remove nay be n D has be network o dy s been p chine wh pair sets.	sage, as a re power from naintained of een incorrect device, powe rovided in th een it is creat
Cl 33 Schindler, Comment New t "Type or gre Data Confli Suggester Repla "Type or gre Data	SC : Fred <i>Type</i> ext, 3 and T ater imp Link Lay cts with <i>dRemea</i> ce text of 3 and T ater imp Link Lay	33.3.2 ER Type 4 PDs blement bor rer classific Table 33-1 bon page 76 Type 4 PDs blement bor rer classific	Seer Comment Status operating with a n th multiple-Event P ation (see 33.6) ar 3a. A Type 4 PD with, with, operating with a n th multiple-Event P	A A haximum p hysical La id advertise was create haximum p hysical La Type 3 PDs	ower draw cor yer classificatio e a class signa ed to support hi power draw cor yer classificatio s advertise a cl	<i>PD Types</i> responding to Class 4 on (see 33.3.5.2) and ture of 4, 5, 6, 7 or 8." gh power applications.	providi reset b discret Values True: F Indicat damag <i>Suggested</i> A solut submit The sta power Strike t	y a LLI ion. ::False: Power r es a Pl le to a l <i>Remec</i> tion has ted. ate man on all p	DP mess Remove nay be n D has be network o dy s been p chine wh pair sets.	age, as a re power from naintained of een incorrect device, powe rovided in th nen it is creat ext. <i>Respons</i>
Cl 33 Schindler, Comment New t "Type or gre Data Confli Suggester Repla "Type or gre Data	SC : Fred Type ext, 3 and T ater imp Link Lay cts with dRemed ce text of 3 and T ater imp Link Lay while Typ	33.3.2 ER Type 4 PDs blement bor rer classific Table 33-1 bon page 76 Type 4 PDs blement bor rer classific	Seer Comment Status operating with a n th multiple-Event P ation (see 33.6) ar 3a. A Type 4 PD with, operating with a n th multiple-Event P ation (see 33.6).	A haximum p hysical Lay ad advertise was create haximum p hysical Lay ype 3 PDs gnature of	ower draw cor yer classificatio e a class signa ed to support hi power draw cor yer classificatio s advertise a cl	<i>PD Types</i> responding to Class 4 on (see 33.3.5.2) and ture of 4, 5, 6, 7 or 8." gh power applications. responding to Class 4 on (see 33.3.5.2) and	providi reset b discret Values True: F Indicat damag Suggested A solut submit The sta power Strike f Response ACCEI	y a LLI ion. ::False: Power r es a Pl le to a l <i>Remec</i> tion has ted. ate mad on all p the refe	DP mess Remove may be n D has be network o <i>ly</i> s been p chine wh pair sets. erence te PRINCIP	ext. Respons

C/ 33	SC 33.2.0a	P 25	L 1	# 251
Schindler, F	red	Seen Simply	/	
Comment Ty	ype TR	Comment Status A		4PID

is supplying Class 4 power or less."

roved. Legacy PDs may only be powered on all pair sets s being capable of accepting power on all pair sets.

owed for Type 1 or 2 PDs when the requirements of Type 1 or 2 PDs may be powered using one pair set."

Response	Response Status	С	
ACCEPT.			

C/ 33	SC 33.2.4.4	P 35	L 16	# 252
Schindler, Fr	red	Seen Simply		
Comment Ty	vpe TR	Comment Status A		4PID
Text,				

3 and Type 4 PSEs to determine whether to continue ially set to the value of pd_4pair_candidate. It may be result of enforcement of class power draw, or at vendor

m at least one pair set. on both pair sets."

ctly powered on both pair sets. To avoid interoperability or wer should only be applied on one pair set of this PD.

he comment flagged with FRS-1 and other comments

ated shall prevent powering of a PD that does not accept

nse Status C

variable completely.

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

Comment ID 252

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Cl 70 Schindler, Fre	SC 79.3.2.6b ed	P 156 Seen Simply	L 26	# 253		CI 33 Schindler,	SC 33.3.1 Fred	P 74 Seen Simply	L 39	# 254
Comment Typ	be ER	Comment Status A			DLL	Comment	Type TR	Comment Status A		4P
what info SuggestedRe Replace t "1 = Dual the indica 0 = Single by either With "1 = Phys	the text for Tabl rmation is being emedy the existing text signature. PCl ated PD mode p e signature. PC PD mode powe sical layer PClas ical layer PClas	e 79-6b item 2 by removing J conveyed.	cated PD mod	e power class valu	rifying	The nu "Type time n mainta This te on bot voltag unpow indica Suggested Repla power	ew sentence, 1 and Type 2 PI hay signal this by ain_power_signal ext changes lega th pair sets shoule. Legacy PDs a vered pair set what tes a PD does not dRemedy ce the sentence on both pair set	Ds wishing to avoid 4 pair pow a message via LLDP to the l ture variable to false." cy behavior. PDs not identifie d never be exposed to voltag are required to provide an inva en powered on by a legacy P ot want to be powered (33.2.5 with, text that indicates how less	PSE setting the ed as being cap es that exceed alid detection si SE. An invalid .4, 33.3.4). egacy PDs may	an a minimal amount of bable of accepting power Vvalid, the detection ignature on an detection signature
AUCEFT	- -					Provid PDs n in Tab On pa "Wher on the With, "Wher may p power	ing a valid detec hay indicate the a ile 79-6b." ge 81, line 51 re h a PD becomes e set of pairs from h a PD becomes resent a non-val . A PD that pres	D may indicate their ability to a tion signature on an unpower ability to accept power on both place legacy sentence, powered via the PI, it shall pr which it is not drawing powe powered via the PI, it d detection signature on the ents a valid detection signatu t powered by Type 3 and Typ	ed pairset requin pair sets using resent a non-va r." set of pairs from re on the pair s	esting power. These g LLDP variable 4P-ID Ilid detection signature n which it is not drawing
						Response		Response Status C		
						ACCE	PT IN PRINCIPI	•		
						The se	entence commer	nted on has been removed (pa	artial OBE by c	omment # 304).
						Do no	t implement sug	gested remedy. Instead:		
						"Wher	n a PD becomes	place legacy sentence, powered via the PI, it shall pr which it is not drawing powe		lid detection signature
						shall p	present a non-va	be 2 PD becomes powered visited detection signature on the pe 4 dual-signature PD shall	set of pairs fror	

Comment ID 254

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	ir in order to receive 4-pair powe he ability to accept power on both			CI 33	SC	33.2.5		P 51	L 1	# 258
Table 79-6b or TE	3D."			Dwelley,	David			Linear Techr	ology	
C/ 33 SC 33.2		L 9	# 255	Commen		Е	Comment S			PSE Detectio
welley, David	Linear Techr	nology		The f	irst two	sentences	in this section	are of questi	onable value and	are not normative:
Comment Type E	Comment Status A		PSE Classification							ture. The period of mentation dependent."
21	lo labels aren't as informative as	they could be		Suggeste			1 0		0	
SuggestedRemedy Change "Yes" to '	'Valid" and "No" to "Invalid" thoug	hout Table 33-8		Rem		second se	ntence. Consid	er removing	the first sentence	e. Remove "Also" from
Response	Response Status C			Proposed	l Respo	nse	Response St	atus Z		
ACCEPT IN PRIN				REJE	CT.					
OBE by comment	: # 127.			This	commei	nt was WI⁻	THDRAWN by t	he comment	er.	
EZ				This	is text th	nat we are	not changing a	s part of the	.3bt project.	
C/ 33 SC 33.1 Dwelley, David	.4 P 21 Linear Techr	L 53	# 256		•	can be file ds clarity.	d as a mainten	ance reques	t, but I would rec	ommend the sentence
Comment Type E	Comment Status A		Editorial	CI 33	SC	33.2.5.3		P 53	L 24	# 259
	power system, consists"		Lanonar	Dwelley,	David			Linear Techr	ology	
SuggestedRemedy				Commen	t Type	Е	Comment S	tatus D		PSE Detectio
,	er system consists"			This	sentenc	e is awful				
Response ACCEPT.	Response Status C				ace with	: "A PSE s	hall detect a paid		a link section wit	n the following
EZ				Proposed			Response St	0		
C/ 33 SC 33.1	.4 P 21	L 54	# 257	REJE	CT.					
Dwelley, David	Linear Techr			This	commei	nt was WI⁻	THDRAWN by t	he comment	er.	
Comment Type E	Comment Status A		Power System	The	suaaeste	ed remedv	does not includ	le an offset v	oltage or current	
	ewriting: "A power system is chan by the lowest type number of the				00	· · · · ,				
SuggestedRemedy										
Replace with: "Th system"	e power system Type is defined I	by the lowest Typ	e of the PSE or PD in a							
Response	Response Status C									
ACCEPT.										
EZ										
YPE: TR/technical re	equired ER/editorial required GR	/general required	I T/technical E/editorial G/g	general				Comm	ent ID 259	Page 64 of 98

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

CI 33 SC	33.2.6	P 57	L 31	# 260	CI 33	SC :	33.2.5	P 50)	L 43	# 262
Dwelley, David		Linear Technol	ogy		Dwelley, D	David		Linear	Technolo	ogy	
Comment Type	Е	Comment Status A		Table 33-8	Comment	Туре	ER	Comment Status	D		PSE Detection
limited to cla	iss 3 power l	ted" is probably not the right evels can be limited to 1-eve	ent physical lay	ver classification."	requir	e the ori	ginal beh	ve changed the meani avior. The next (new) ly well by itself.			
		f higher power levels but for a PD - in this case it may (a				ore origin	al senten	ice: "In any operation			
SuggestedReme	edy				power	r to the F	a until the	e PSE has successful	ly detecte	ed a PD reques	ting power."
		Type 3 PSE that will provide ayer classification."	class 3 or lowe	er power levels may opt			ord "Spe this sent	cifically" from line 47. ence.	Might als	so want to requ	ire success (not just
Response ACCEPT.		Response Status C			Proposed REJE	•	se	Response Status	Z		
EZ					This c	commen	t was WI	THDRAWN by the cor	nmenter.		
C/ 33 SC Dwelley, David	33.2.0a	P 25 Linear Technol	L 1 ogy	# 261				only says the PSE sl id signature.	nall apply	the detection p	probe to each pair set,
		Comment Status D						al sentence a PSE coloring only Alt-A and then ap			
		ws 2-pair power. If we're tryi er is compliant behavior, that			C/ 01 Dwelley, D	SC · David	1.4	P 18 Linear	r Technolo	L 14	# 263
SuggestedReme	edy				Comment	Туре	ER	Comment Status	Α		Editoria
Remove note Proposed Respo		Response Status Z						nd "pairset" have all be likely to be misinterpr		in 802.3bt - pic	k one. "Pairset" is
REJECT.					Suggestee	dRemed	'y				
					Chang	ge "pair	set" and '	"pair-set" to "pairset" t	hroughou	it the documen	t.
This comme	nt was WITH	IDRAWN by the commenter			Response	;		Response Status	с		
		hat 2-pair power is complian			•		RINCIPL	,	-		
would like it	removea, ple	ease suggest an alternate pl	ace to make th	iat cianfication.	OBE b	by comn	nent # 15				
					EZ						

C/ 33	SC 33.3.7	P 88	L 21	# 264	C/ 33	SC	33.2.4.1	P 33	L 50	# 266
Dwelley, Davi	id	Linear Techno	ology		Dwelley, D	David		Linear Technol	ology	
Comment Typ	pe T	Comment Status A		Table 33-18	Comment	Туре	т	Comment Status A		PSE Backoff
reduction	in PD power.	oo much precision. Cutting m Rounding up runs the risk of imum-resistance cable plant	f non-interoperal	V is only an 0.5% bility with an LPS-	power	r over b	oth Alterna	dant and is not normative: "A ative A and Alternative B sim ing - this is required behavior	ultaneously".	
SuggestedRe	emedy				Suggestee	dReme	dy			
Change t	to 71.3W to 7	W.						add the words "only" and "s		
Response ACCEPT	IN PRINCIPL	Response Status C E.						sing Alternative B *only* may ccurs, the PSE *shall* back of		
					Consi	der also	o adding a	"shall" to page 34 line 8.		
OBE by c	comment # 5.				Response	;		Response Status C		
Cl 33 Dwelley, Davi	SC 33.1.4	P 23 Linear Techno	L 32	# 265	ACCE	EPT IN I	PRINCIPL	E.		
	nes cabling pa	Comment Status A arameters: "Operation for all t is stated in ISO/ IEC 11801:2		Unbalance the resistance	page : valid F	34, line	1: "A PSE	on page 33, line 50/51, and performing detection using ature. When this occurs, the	only Alternative	B may fail to detect a
SuggestedRe	emedy				Pg 34	, Line 8	3 should no	ot be changed.		
		on is assured when the chan ISO/ IEC 11801:2002."	nel meets the re	sistance unbalance	CI 33	SC	33.2.5.6	P 54	L 46	# 267
Response		Response Status C			Dwelley, D	David		Linear Technol	ology	
ACCEPT	IN PRINCIPL	E.			Comment	Туре	т	Comment Status A		4PID
OBE by c	comment # 16	9.						ner system information, as de ned in 33.2.5.0.	escribed in 33.2	2.5.0.". There is no
					Suggestee	dReme	dy			
					Remo	ove "and	d the resul	ts of other system informatio	n"	
					While	we're h	nere, repla	ce "&" with "and" in line 45.		
					Response	9		Response Status C		
					ACCE	EPT IN I	PRINCIPL	E.		
					Partia	I OBE b	by comme	nt # 335 (don't remove text)		
								in line 45. Editor given licen		

Comment ID 267

C/ 33 SC 33.2.4.4	P 37 L	4 # 268	C/ 33		33.3.7	P 88	L 49	# 271
Dwelley, David	Linear Technology		Dwelley, D	Javid		Linear Techno	ology	
51	Comment Status A et" to the end of the "TRUE" value	PSE State Diagram e definition	Comment Table		TR tem 9: Cha	Comment Status X ange to "per pair set capacit	ance" allows 36	Pres: Table 33-18 OuF. We changed this
SuggestedRemedy				•		2 in Pittsburgh.		-
Add "on at least one pairse	et" to the end of the "TRUE" value	e definition	Suggester			nonitanan"		
Response R	Response Status C			0		pacitance"		
ACCEPT IN PRINCIPLE.			Proposed			Response Status W		
Also replace all VPort_PSE	E references to Vport_PSE-2P.			open to	,			
CI 33 SC 33.2.7	P 62 L	22 # 269			to presen			
Dwelley, David	Linear Technology		CI 33 Dwelley, E		33.3.5.1	P 84 Linear Techno	L 28 blogy	# 272
51	Comment Status R	PSE Power	Comment	Tvpe	TR	Comment Status A		PD Classification
an AT device that claims to	ools have -2p added to them. This o meet Vport_pse will not find a s t" can stay, as all valid AF/AT de	pec with that name anymore.	lf a Ty	/pe 3/4 F	D draws	0mA as Class 0, the line volu ure may be read incorrectly		
pairset.			Suggestee	dRemed	ly			
SuggestedRemedy						e 28: "(Type 1/2)"		
Remove -2p suffixes from I	Items 1 and 4-10.				w below th s the same	is row: "Current for Class 0 ((Type 3/4)" with	1mA as the minimum,
Response R	Response Status C		all our	iel speca	s the same	5.		
REJECT.			Altern 1mA r		olit the Cor	nditions column to show Typ	e 1/2 with 0 min	and Type 3/4 with
This should be discussed b	by the group.		Response)		Response Status C		
Oot			ACCE	PT IN F	PRINCIPLE			
CI 33 SC 33.3.7	P 87 L	36 # 270	Туре	4 PDs n	ever show	r class 0 (only 4, 2, and 3).		
Dwelley, David	Linear Technology		Add to	o Param	eter at line	e 28: "(Type 1 and Type 2)"		
Comment Type TR 0	Comment Status R	Table 33-18				is row: "Current for Class 0 ((Type 3)" with T	BD mA as the
an AT device that claims to	ools have -2p added to them. This o meet Vport_pd will not find a sp t" can stay, as all valid AF/AT de	pec with that name anymore.		ium, an o	other spec	is the same.		
SuggestedRemedy Remove -2p suffixes from ⁻	Table 33-18, Items 1-3, 5, 6, and	9.						
Response R REJECT.	Pesponse Status C							
Oot								
		required T/technical E/editorial G/				_	ent ID 272	Page 67 of 98

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

Comment ID 272

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CI 33	SC 33.2.7	P 62	L 42	# 273	CI 33	SC 33.2.7.7	P 70	L 26	# 276
Dwelley, Da	avid	Linear Techno	ology		Dwelley, Da	vid	Linear Techn	ology	
Comment T	Type TR	Comment Status A		Pres: Class	Comment 7	ype TR	Comment Status A		PSE Power
		s to imply that 45W over a si nsformers on each pairset	ngle pairset is C	K. This means all 45W	lowerbo	und template, th	th pair sets may drop in this ne PSE output voltage on the		
Suggested	Remedy				2P min				
Add to	Additional Inform	nation: "Class 4 and lower or	ily"		Suggested	-			
Response		Response Status C			Remov	e "on that pair se	et" or add "or both pair sets"	:	
	PT IN PRINCIPL					-2P exceeds the Port_PSE-2P m	PSE lowerbound template, nin."	the PSE output	voltage may drop
		ow of item # 4 in Table 33-1					PSE lowerbound template, op below VPort_PSE-2P mi		voltage on that pair set
<u> </u>	SC 22 2 4 4	D 24	1 42	# 074	Response		Response Status C		
Cl 33 Dwelley, Da	SC 33.2.4.4 avid	P 34 Linear Techno	L 43 blogy	# 274	ACCEF	T IN PRINCIPL	E.		
Comment 7 Extra "r	<i>Type</i> TR not" in true case	Comment Status A		Editorial	Replace				
Suggestedl	Remedy					2P exceeds the port_PSE-2P m	PSE lowerbound template, in."	the PSE output v	oltage may drop
Change	e to: "do_detectio	on yields "valid" on both pair	sets"		C/ 33	SC 33.2.0a	P 24	L 37	# 277
Response		Response Status C			Picard, Jea	า	Texas Instrur	nents	
ACCEF	PT IN PRINCIPL	E.			Comment 7	vpe ER	Comment Status A		PSE Types
OBE by	y comment #208	1			The col		class supported" of Table 3	3-1a should repre	
EZ					Suggested	Remedy			
CI 33	SC 33.2.7.7	P 68	L 50	# 275	Replace	e the power (Wa	tts) with class level (0 to 8)		
Dwelley, Da	avid	Linear Techno	ology		Response		Response Status C		
Comment 7 Move th		Comment Status A	ection 33.2.9 so	PSE Power it covers all cases	ACCEF	Т.			
Suggested	2	be removed" sentence to p	age 71 at the en	d of line 51					
Response		Response Status C	age i i at the en						
•	PT IN PRINCIPL	,							
Move to	o 33.2.7 which is	power supply output. 33.2.9	is specifically a	about MPS.					
Add "Eo to be re	ditor's Note to be emoved from dra	e removed before publication ft. Please comment against	: All other insta them."	nces of this statement					
COMMENT		d ER/editorial required GR/ patched A/accepted R/reject D				Z/withdrawn	Comm	ent ID 277	Page 68 of 98 6/19/2015 9:18:0

Cl 33 Picard, J	SC 33.2.0a	a P 24 Texas Instrur	L 47 ments	# 278	C/ 33 Picard, Jea	SC 33.2.4.6	P 41 Texas Instrur	L 50	# 280
Commer		Comment Status A	licitio	PSE Types	Comment 7		Comment Status A	licitio	PSE State Diagram
Tabl		show the maximum class supp	orted per catego		We als	51	if the result of do_detection i	s valid for pair-	0
Suggest	edRemedy				Suggested	Remedy			
Rem	nove the 75W lin	e item.				e from: valid: T	he PSE has detected a PD re	questing power	
	EPT.	Response Status C	ctly. This should	hot have been added	valid_4 on Alte	P_A: For type	Type 2 PSEs: The PSE has d 3 and Type 4 PSEs: The PSE 3 and Type 4 PSEs: The PSE	has detected a	PD requesting power
EZ						ernative B pairs.			
CI 33 Picard, J	SC 33.2.4.	4 P 34 Texas Instrur	L 43 ments	# 279	Response ACCEF	PT IN PRINCIP	Response Status C LE.		
Commer For t		Comment Status A on, "does not" should not be th	ara	Editorial	OBE by	y comment # 2	29.		
Suggest	edRemedy				C/ 33 Picard, Jea	SC 33.2.4.4 an	P 35 Texas Instrur	L 5 nents	# 281
Repl	lace with "do_de	tection yields valid on both pair	r sets"		Comment 7	Type TR	Comment Status A		4PIL
Respons ACC	se EPT IN PRINCI	Response Status C PLE.			while b		ermination yet that the result e unpowered, can confirm that		
OBE	by comment #2	208			Suggested	Remedy			
EZ					88	e the last senter	nce as following, "detection, c	onnection chec	k and an additional 4PID
					Response	PT	Response Status C		

ACCEPT.

Cl 33 Picard, Jean	SC 33.2.4.4	Р 35 Texas Instru	L 17 ments	# 282	C/ 33 Picard, Je	SC 33.2.4.4 an		L 5 struments	# 284		
	Comment Type TR Comment Status A 4PID It is not appropriate to simply provide power and check through LLDP if 4-pair power is 4 4					<i>Type</i> ER should be lport-2	PSE State Diagram				
permitted, as it may take a very long time to go through that cycle (including boot-up time), which may cause damage to certain types of dual signature PDs. It is also NOT reliable to rely on LLDP boot up time to avoid damaging PDs. If power is applied without having determined that 4P power can be received, a "short term" (much shorter than LLDP cycle time) time limit to turn off the power has to be defined based on potential damage scenarios, either electrically or thermally related.					Response	ice with Iport-2P	Response Status C	-			
SuggestedRe	emedy				OBE	by comment # 9	8				
	rd sentence with "if it ble shall be reset with				EZ	.,					
Response ACCEPT	Resp	onse Status C			C/ 33 Picard, Je	SC 33.2.7.7		L 48 struments	# 285		
	OBE by comment # 252					<i>Type</i> ER needs to be con	Comment Status A verted to Iport-2P				
CI 33 Picard, Jean	SC 33.2.4.4	P 35 Texas Instru	L 27 ments	# 283	Suggeste						
Comment Typ	pe T Com	ment Status A		4PID	Use l	port-2P instead					
The varia	The variable and the language for deny_dual_sig_4pair_power are not required for interoperability. They appear to be implementation specific.					e PT.	Response Status C				
SuggestedRe	uggestedRemedy										
signature	esults of the connecti PD to make choices the variable deny_du	permitted by the sp	ecification.	C C	EZ C/ 33 Picard, Je	SC 33.2.7.7		L 16 struments	# 286		
Response ACCEPT	Resp	onse Status C			Comment	Type ER	Comment Status A verted to Iport-2P	PSE Power			
OBE by c	comment # 226				Suggester Use l	dRemedy port-2P instead					
					Response ACCE	ept in princif	Response Status C				
					Chang	ge "is the duration	on that the PI souraces Ip	ort."			
					to:						
					"is the	e duration that th	ne pair set sources lport-2	p"			
					EZ						
TYPE: TR/tec COMMENT S	chnical required ER/e TATUS: D/dispatche	ditorial required GF d A/accepted R/rej	R/general required	I T/technical E/editorial G/ NSE STATUS: O/open W/w	/general vritten C/close	d Z/withdrawn	Co	omment ID 286	Page 70 of 98 6/19/2015 9:18:0		

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

6/19/2015 9:18:01 AM

IEEE 802.bt D1.0 4-Pair Power o	over Ethernet 3rd Task	Force review comments
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CI 33 SC 33.2	.4.4 P 39	L 36	# 287	C/ 33	SC 33.2.5	P 50	L 46	# 289		
Picard, Jean	Texas Instru	ments		Picard, Jean		Texas Instrur	ments			
Comment Type EF	Comment Status A		PSE Types	Comment Typ	e TR	Comment Status A		PSE Detection		
PSE.	low is misleading, referring to "ha	ardware limitation	", in the case of type 4	This sentence could be misleading and adds unnecessary text. This sentence could be interpreted as not allowing a PSE to turn temporarily OFF one pair set and turn it back on without further detection, when it was previously determined to be connected to a single signature PD. SuggestedRemedy recommend removing this whole sentence as it adds unnecessary text.						
SuggestedRemedy										
Replace the secon "For example, this	nd sentence with: s would apply to a PSE that is ove	ersubscribed and	in power management							
	PSE that has a hardware limitati									
Response	Response Status C			Response ACCEPT	N PRINCIPI	Response Status C _E.				
ACCEPT.	OBE by comment # 9 EZ									
This goes to the h this.										
See Comment # 9	99.			CI 33	SC 33.2.5.6	P 54	L 43	# 290		
C/ 33 SC 33.2	.4.6 <i>P</i> 41	L 33	# 288	Picard, Jean		Texas Instrur	ments			
Picard, Jean	Texas Instru	ments		Comment Typ	e TR	Comment Status A		4PID		
	Comment Status A lass of the PD associated with th on abramson_02_1114.	e" should have b	PSE State Diagram een removed from the	simply app Also, what	oly 4-pair pov	s vague, unclear and could b wer and then check after if th o such system information ar 2D?	e load can accep	ot it, which is incorrect.		
S <i>uggestedRemedy</i> Remove "class of	the PD associated with the" from	the sentence.				nature PD, the other system gh physical layer or LLDP, for				
Response	Response Status C					owering the second pair set.				
ACCEPT.	,			SuggestedRei	nedy					
EZ				Type 3 an	21	nce as: Es shall determine whether a ower on both pair sets prior to				
				Response		Response Status C				
				-						

ACCEPT.

Picard, Jean	3.2.7	P 62 Texas Instrur	L 26 nents	# 293
Comment Type T	TR Co	omment Status A		PSE Power
Table 33-11: VPort_PSE_diff i	f is too low, it	needs to be increased		
Systems using 2	2 senarate ci	ircuitries (may be on se	parate cards) to	drive each pair set may
			d all (or very few	of) the pair sets on
SuggestedRemedy				
		determine appropriate v	alue. Suggest to	evaluate the impact of
Response	Re	sponse Status C		
ACCEPT IN PRI	INCIPLE.			
	ont # 268			
	fill # 300			
C/ 33 SC 33. Picard, Jean	3.2.7	P 63 Texas Instrur	L 10 nents	# 294
Comment Type E	ER Co	omment Status A		PSE Power
Table 33-11: The max limit sh	hould be ILIN	<i>1</i> -2P		
SuggestedRemedy				
Replace ILIM wit	ith ILIM-2P			
Response ACCEPT IN PRI		sponse Status C		
	Table 33-11: VPort_PSE_diff Systems using have issues cau multiple pair set the other card h SuggestedRemedy System analysis using 10mV ins Response ACCEPT IN PR OBE by comme CI 33 SC 33 Picard, Jean Comment Type Table 33-11: The max limit s SuggestedRemedy Replace ILIM w	Table 33-11: VPort_PSE_diff is too low, it Systems using 2 separate c have issues caused by different inductive pair sets on one can the other card have no current is suggested Remedy System analysis needed to or using 10mV instead. Response Re ACCEPT IN PRINCIPLE. OBE by comment # 368 C/ 33 SC 33.2.7 Picard, Jean Comment Type ER Table 33-11: The max limit should be ILIN Suggested Remedy Replace ILIM with ILIM-2P	Table 33-11: VPort_PSE_diff is too low, it needs to be increased. Systems using 2 separate circuitries (may be on se have issues caused by difference in GND potential, multiple pair sets on one card are at high current and the other card have no current. SuggestedRemedy System analysis needed to determine appropriate vusing 10mV instead. Response Response Status C ACCEPT IN PRINCIPLE. OBE by comment # 368 C/ 33 SC 33.2.7 P 63 Picard, Jean Texas Instrum Comment Type ER Comment Type ER Comment Type ER SuggestedRemedy Replace ILIM with ILIM-2P Response Response Status C Response Response Status	Table 33-11: VPort_PSE_diff is too low, it needs to be increased. Systems using 2 separate circuitries (may be on separate cards) to have issues caused by difference in GND potential, due to the grour multiple pair sets on one card are at high current and all (or very few the other card have no current. SuggestedRemedy System analysis needed to determine appropriate value. Suggest to using 10mV instead. Response Response Status C ACCEPT IN PRINCIPLE. OBE by comment # 368 L 10 Picard, Jean Texas Instruments Comment Type ER Comment Status A Table 33-11: The max limit should be ILIM-2P SuggestedRemedy Response Response Status C

This applies to item # 7 in Table 33-11

C/ 33 SC 33.2.7	P 63	L 11	# 295	C/ 33	SC 33.2.7	P 64	L 22	# 298
Picard, Jean	Texas Instrur	nents		Picard, Jea	an	Texas Instrume	nts	
Comment Type TR Table 33-11: ICUT-2P min needs t Should refer to ICON			Pres: Icon		33-11: d be "single sign	Comment Status A		Editorial
SuggestedRemedy Replace TBD with sa	me values used for ICON-2P-	unb			ve the "s" at end	l of PD. Response Status C		
Response ACCEPT IN PRINCIF	Response Status C PLE.			ACCE	PT IN PRINCIP	LE.		
OBE by comment # 3	337.			EZ	.,	-		
C/ 33 SC 33.2.7 Picard, Jean	P 63 Texas Instrur	L 17 ments	# 296	C/ 33 Picard, Jea	SC 33.2.7	P 64 Texas Instrume	L 25	# 299
imbalance.	Comment Status A	T right, it does no	Pres: ILIM	Comment	<i>Type</i> TR systems need me	Comment Status A ore flexibility for disconnect timir	ng	PSE MPS
SuggestedRemedy Redefine Type 3 ILIM	1-2P min, using the unbalance	factor.			33-11: ce TMPDO minir	num to 320 ms for type 3 or 4		
Response ACCEPT IN PRINCIF	Response Status C PLE.					ing request for PD.		
OBE by comment # 3	339.			Response ACCE	PT IN PRINCIP	Response Status C LE.		
C/ 33 SC 33.2.7 Picard, Jean	Р 63 Texas Instrur	L 19	# 297	OBE b	by comment # 19	98		
Comment Type TR	Comment Status A	nenta	Pres: ILIM	C/ 33 Picard, Jea	SC 33.3.8 an	P 96 Texas Instrume	L 30 nts	# 300
	be defined for type 4			Comment PSE s	•••	Comment Status A ore flexibility for disconnect timir	na	PD MPS
SuggestedRemedy Define Type 4 ILIM-2	P min starting from (1+K) x IF	Peak-2P, which n	neans around 1.2A.	Suggested	dRemedy		-	
Response ACCEPT IN PRINCIF	Response Status C PLE.			Table <i>Response</i>		TMPDO_PD maximum to 300 Response Status C	ms if Type 3 or	4.
OBE by comment # 3	339.				PT IN PRINCIP			

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

Comment ID 300

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Picard, Jean Texas Instruments Picard, Jean Texas Instruments Comment Type E Comment Status A Editorial Table 33-19a is in the wrong section. SuggestedRemedy A The sentence does not comply with the power demotion concept define section. SuggestedRemedy Move table 33-19a to page 95 Response Response Status C ACCEPT IN PRINCIPLE. This may be because it can't fin on page 95 in the current draft. Editor to try to move table 33-19a to correct position. SuggestedRemedy Move table 33.19a to page 95 Response Response Status C ACCEPT IN PRINCIPLE. This may be because it can't fin on page 95 in the current draft. Editor to try to move table 33-19a to correct position. SuggestedRemedy Response Response Status C ACCEPT IN PRINCIPLE. C1 33 SC 33.2.7.7 P 68 L 43 # [302] Picard, Jean Texas Instruments C ACCEPT IN PRINCIPLE. Comment Type TR Comment Status A PSE Power Ficard, Jean Texas Instruments C/ 33 SC 33.3.1 P 74 L 39 Picard, Jean Texas Instruments C/ 33 SC 3	E does not initiate power level fication section agram section: support, the PSE
Table 33-19a is in the wrong section. SuggestedRemedy Move table 33-19a to page 95 Response Response Status C ACCEPT IN PRINCIPLE. This may be because it can't fin on page 95 in the current draft. Editor to try to move table 33-19a to correct position. EZ C/ 33 SC 33.2.7.7 P 68 L 43 # [302] Picard, Jean Texas Instruments C Comment Type TR Comment Status A PSE Power Each pair-set has its individual current limiting requirement (current and time), and if both of them are short-circuited, they will meet their individual spec, so that there is no need to link them together. PT4 L 39 Also, the lowerbound template needs to related to the total PI current. The PSE may check the sum of currents to apply ICUT, and that would be the minimum possible. TR Comment Status A PT4 L 39 Picard, Jean Texas Instruments The PSE may check the sum of currents to apply ICUT, and that would be the minimum possible. TR Comment Status A PT4 L 39	ed in mutual ID SE does not initiate power level fication section agram section: support, the PSE
SuggestedRemedy Move table 33-19a to page 95 Response Response Status C ACCEPT IN PRINCIPLE. This may be because it can't fin on page 95 in the current draft. Editor to try to move table 33-19a to correct position. EZ C/ 33 SC 33.2.7.7 P 68 L 43 # [302] Picard, Jean Texas Instruments Comment Type TR Comment Status A PSE Power Each pair-set has its individual current limiting requirement (current and time), and if both of them are short-circuited, they will meet their individual spec, so that there is no need to link them together. PSE Power Also, the lowerbound template needs to related to the total PI current. The PSE may check the sum of currents to apply ICUT, and that would be the minimum possible. C/ 33 SC 33.3.1 P74 L 39 Picard, Jean Texas Instruments C/ 33 SC 33.3.1 P74 L 39 Vicard, Jean Texas Instruments C/ 33 SC 33.3.1 P74 L 39 Picard, Jean Texas Instruments C/ 33 SC 33.3.1 P74 L 39 Picard, Jean Texas Instruments C/ 33 SC 33.3.1 P74 L 39 Picard, Jean Texas	power level rication section agram section: support, the PSE
Response Response Status C Replace the sentence with: "At the exception of the situation when it applies power demotion, a PS power provision to a link if the PSE is unable to provide the maximum prequested by the PD based on the PD's class" EZ Image: Comment Type Response Response Status C Cl 33 SC 33.2.7.7 P 68 L 43 # 302 Picard, Jean Texas Instruments PSE Power Comment Type TR Comment Status A Picard, Jean Texas Instruments PSE Power Each pair-set has its individual current limiting requirement (current and time), and if both of them are short-circuited, they will meet their individual spec, so that there is no need to link them together. PT4 L 39 Also, the lowerbound template needs to related to the total PI current. The PSE may check the sum of currents to apply ICUT, and that would be the minimum possible. Comment Type TR Comment Status A It may not be appropriate to simply provide power and check through LI is permitted, as it may take a very long time to go through that cycle (in the section of the situation when it applies power demotion, a PS power constant to simply provide power and check through LI is permitted, as it may take a very long time to go through that cycle (in the section of the situation when it applies power demotion, a PS power constant the end of the multiple event physical layer classific (page 59,	power level rication section agram section: support, the PSE
Response Response Status C ACCEPT IN PRINCIPLE. This may be because it can't fin on page 95 in the current draft. Editor to try to move table 33-19a to correct position. "At the exception of the situation when it applies power demotion, a PS power provision to a link if the PSE is unable to provide the maximum prequested by the PD based on the PD's class" EZ Response Response Status C Cl 33 SC 33.2.7.7 P 68 L 43 # 302 Picard, Jean Texas Instruments Method following text at the end of the multiple event phsyical layer classific (page 59, line 54) and the pd_requested_power variable in the state dia Status A Comment Type TR Comment Status A Each pair-set has its individual current limiting requirement (current and time), and if both of them are short-circuited, they will meet their individual spec, so that there is no need to link them together. Production of the situation when it applies power demotion, a PS power provision to a link if the PSE is unable to provide power variable in the state dia Status A Also, the lowerbound template needs to related to the total PI current. The PSE may check the sum of currents to apply ICUT, and that would be the minimum possible. Comment Type TR Comment Status A It may not be appropriate to simply provide power and check through LL is permitted, as it may take a very long time to go through that cycle (in the cycle in that cycle) is permitted, as it may take a very long time to go th	power level rication section agram section: support, the PSE
33-19a to correct position. Image: constant of the status of the sta	agram section: support, the PSE
EZ ACCEPT IN PRINCIPLE. CI 33 SC 33.2.7.7 P 68 L 43 # 302 Picard, Jean Texas Instruments Add following text at the end of the multiple event phsyical layer classific (page 59, line 54) and the pd_requested_power variable in the state dia to the state of the material state in the state of the state of the material state in the state of the material state in the state of the state of the material state in the state of the state of the material state in the state of the state of the state of the state of the material state in the state of the sta	agram section: support, the PSE
C/ 33 SC 33.2.7.7 P 68 L 43 # 302 Picard, Jean Texas Instruments Texas Instruments Men a PD requests a higher class than a Type 3 or Type 4 PSE can shall assign the PD class 3, 4, or 6, whichever is the highest that it can shall assign the PD class 3, 4, or 6, whichever is the highest that it can the modern of the multiple event physical layer classific (page 59, line 54) and the pd_requested_power variable in the state dia When a PD requests a higher class than a Type 3 or Type 4 PSE can shall assign the PD class 3, 4, or 6, whichever is the highest that it can the modern of the multiple event physical layer classific (page 59, line 54) and the pd_requested_power variable in the state dia When a PD requests a higher class than a Type 3 or Type 4 PSE can shall assign the PD class 3, 4, or 6, whichever is the highest that it can the modern of the multiple event physical layer classific (page 59, line 54) and the pd_requested_power variable in the state dia When a PD requests a higher class than a Type 3 or Type 4 PSE can shall assign the PD class 3, 4, or 6, whichever is the highest that it can the modern of the multiple event physical layer classific (page 59, line 54) and the pd_requested_power variable in the state dia Shall assign the PD class 3, 4, or 6, whichever is the highest that it can the them together. Also, the lowerbound template needs to related to the total PI current. The PSE may check the sum of currents to apply ICUT, and that would be the minimum possible. Comment Type TR Comment Status A It may not be appropriate to simply provide power and check through Lis permitted, as it may take a very long time to go through that cycle (in the power and check through Lis permitted, as it may take a very long time to go throu	agram section: support, the PSE
C/ 33 SC 33.2.7.7 P 68 L 43 # <u>302</u> Picard, Jean Texas Instruments Texas Instruments (page 59, line 54) and the pd_requested_power variable in the state dia Comment Type TR Comment Status A PSE Power Each pair-set has its individual current limiting requirement (current and time), and if both of them are short-circuited, they will meet their individual spec, so that there is no need to link them together. PT4 L 39 Also, the lowerbound template needs to related to the total PI current. The PSE may check the sum of currents to apply ICUT, and that would be the minimum possible. TR Comment Status A It may not be appropriate to simply provide power and check through LL is permitted, as it may take a very long time to go through that cycle (in	agram section: support, the PSE
Picard, Jean Texas Instruments Comment Type TR Comment Status A PSE Power Each pair-set has its individual current limiting requirement (current and time), and if both of them are short-circuited, they will meet their individual spec, so that there is no need to link them together. When a PD requests a higher class than a Type 3 or Type 4 PSE can shall assign the PD class 3, 4, or 6, whichever is the highest that it can the point of them are short-circuited, they will meet their individual spec, so that there is no need to link them together. When a PD requests a higher class than a Type 3 or Type 4 PSE can shall assign the PD class 3, 4, or 6, whichever is the highest that it can the point of them are short-circuited, they will meet their individual spec, so that there is no need to link them together. When a PD requests a higher class than a Type 3 or Type 4 PSE can shall assign the PD class 3, 4, or 6, whichever is the highest that it can the point of them are short-circuited, they will meet their individual spec, so that there is no need to link them together. When a PD requests a higher class than a Type 3 or Type 4 PSE can shall assign the PD class 3, 4, or 6, whichever is the highest that it can the point the point of them are short-circuited, they will meet their individual spec, so that there is no need to link them together. Also, the lowerbound template needs to related to the total PI current. The PSE may check the sum of currents to apply ICUT, and that would be the minimum possible. Comment Type TR Comment Status A It may not be appropriate to simply provide power and check through Li is permitted, as it may take a very long time to go throug	
Comment Type TR Comment Status A PSE Power Each pair-set has its individual current limiting requirement (current and time), and if both of them are short-circuited, they will meet their individual spec, so that there is no need to link them together. shall assign the PD class 3, 4, or 6, whichever is the highest that it can Also, the lowerbound template needs to related to the total PI current. The PSE may check the sum of currents to apply ICUT, and that would be the minimum possible. Also, the lowerbound template needs to related to the total PI current. The PSE may check the sum of currents to apply ICUT, and that would be the minimum possible. TR Comment Status A	
Each pair-set has its individual current limiting requirement (current and time), and if both of them are short-circuited, they will meet their individual spec, so that there is no need to link them together. Also, the lowerbound template needs to related to the total PI current. The PSE may check the sum of currents to apply ICUT, and that would be the minimum possible. CI 33 SC 33.3.1 P74 L 39 Picard, Jean Texas Instruments Comment Type TR Comment Status A It may not be appropriate to simply provide power and check through LI is permitted, as it may take a very long time to go through that cycle (in	
of them are short-circuited, they will meet their individual spec, so that there is no need to link them together. Also, the lowerbound template needs to related to the total PI current. The PSE may check the sum of currents to apply ICUT, and that would be the minimum possible. Cr 33 SC 33.3.1 Pr4 L 39 Picard, Jean Texas Instruments Comment Type TR Comment Status A It may not be appropriate to simply provide power and check through LI is permitted, as it may take a very long time to go through that cycle (in	# 00.1
Also, the lowerbound template needs to related to the total PI current. The PSE may check the sum of currents to apply ICUT, and that would be the minimum possible. It may not be appropriate to simply provide power and check through L is permitted, as it may take a very long time to go through that cycle (in	# 304
The PSE may check the sum of currents to apply ICUT, and that would be the minimum It may not be appropriate to simply provide power and check through Li possible.	4P11
	ncluding boot-up
time), which may cause damage (ex: energy dissipated) to certain type SuggestedRemedy PDs. If there is a limit of time, it has to be short, most likely 0.5 to 1 sec	
Remove the paragraph with: Which is much shorter than reaction time through LLDP. In some cases, there may be NO minimal acceptable on time at 57V w	
A PSE may remove power from the PI if the PI current meets or exceeds the "PSE want this power.	
lowerbound template" in Figure 33-14. Power shall be removed from a pair set of a PSE before the pair set current exceeds the "PSE upperbound template" in Figure 33-14. Suggested Demodule	nent.
Bananaa Disku 2	
Response Response Status C Remove the second sentence from the paragraph.	
Response Response Status C	
OBE by 238 ACCEPT.	

33 SC 33.3.2 P 75 L 42 # <u>305</u>	C/ 33 SC 33.3.5.1 P 84 L 11 # 307
card, Jean Texas Instruments	Picard, Jean Texas Instruments
omment Type ER Comment Status A Editorial	Comment Type ER Comment Status A PD Classificati
There isn't any Note #3	The paragraph is incorrect and misleading relative to type 4 PD, which apply only to class
uggestedRemedy	and 8.
Replace "3" with "2", both type 3 and type 4 line items.	SuggestedRemedy
esponse Response Status C ACCEPT IN PRINCIPLE.	Replace: Since 1-Event classification is a subset of Multiple-Event classification, Type 2, Type 3 and Type 4 PDs operating with a maximum power draw corresponding to class 4 or higher respond to 1-Event classification with a Class 4 signature
OBE by comment # 156	respond to 1-Event classification with a class 4 signature
-	With: Since 4 Funct place if action is a subject of Multiple Funct place if action. Time 2 and Time 2
EZ	Since 1-Event classification is a subset of Multiple-Event classification, Type 2 and Type 3 PDs operating with a maximum power draw corresponding
/ 33 SC 33.3.2 P 76 L 7 # 306 card, Jean Texas Instruments	to class 4 or higher, as well as Type 4 PDs, respond to 1-Event classification with a Class 4 signature
omment Type TR Comment Status A PD Types	Response Response Status C
The paragraph is incorrect and misleading relative to type 4 PD, which apply only to class 7 and 8.	ACCEPT.
uggestedRemedy	C/ 33 SC 33.3.5.2 P 85 L 26 # 308
Replace the paragraph with:	Picard, Jean Texas Instruments
"Type 3 PDs operating with a maximum power draw corresponding to Class 4 or greater	Comment Type E Comment Status A Editor
implement both multiple-Event Physical Layer classification (see 33.3.5.2) and Data Link Layer classification (see 33.6) and advertise a class signature of 4, 5 or 6."	These 2 lines should have immediately followed the last paragraph of previous page, otherwise it can become confusing.
Also, add this one:	SuggestedRemedy
"Type 4 PDs operating with a maximum power draw corresponding to Class 7 or greater implement both multiple-Event Physical Layer classification (see 33.3.5.2) and Data Link	Regroup this paragraph together on either page 84 or 85.
Layer classification (see 33.6) and advertise a class signature of 7 or 8."	It should read as:
esponse Response Status C ACCEPT IN PRINCIPLE. OBE by comment # 250.	"Until successful Multiple-Event Physical Layer classification or Data Link Layer classification has completed, a Type 2, Type 3 and Type 4 PD's pse_power_leveltype state variable is set to '1.' A Type 2, Type 3 and Type 4 PD shall conform to the electrical requirements as defined by Table 33–18 for the level type defined in the pse_power_leveltype state variable."
	Response Response Status C
	ACCEPT.

CI 33 SC 33.3.7 P 87 L 28	# 309	CI 33	SC 33.3.7.4	P 91	L 37	# 311
Picard, Jean Texas Instruments		Picard, Jea	an	Texas	Instruments	
Comment Type T Comment Status A Table 33-18:	Table 33-18	Comment Equati		Comment Status		PD Powe
table looks too complicated, too many unnecessary choices. SuggestedRemedy simplify the table and regroup around a more limited number of a Response Response Status C ACCEPT IN PRINCIPLE.	lternatives.		ce: bower, PPeak_F on (33-12a), wh	PD, for Class 7 and 8 is ich approximates the ra		rs of Class 0 through
We will wait for your specific remedy. Cl 33 SC 33.3.8 P 96 L 6	# 310		on (33-12a), wh	PD, for Class 7 and 8 is ich approximates the ra		rs of Class 7 through
Picard, Jean Texas Instruments		Response		Response Status	с	
Comment Type E Comment Status A Table 33-19a: At 2 locations, the bullet should be moved to the left A	Editorial		PT IN PRINCIP			
SuggestedRemedy Position correctly the bullets		EZ				
Response Response Status C ACCEPT IN PRINCIPLE.		C/ 33 Picard, Jea	SC 33.2.4.7 an	P 45 Texas	L 1 Instruments	# 312
For Table 33-19a, Item 1:			51	Comment Status , s not cover Type 3 and		PSE State Diagran at a replacement is
Move the bullets ("-") from end of the first row to the beginning of meant to call out the power requirement.	the second row as it is	Suggested	Remedy			
Each "conditions" cell for item 1 should have a bulleted list inside	it.	Response	ype 3-4 state di	agram to be provided. Response Status	c	
EZ			PT IN PRINCIP	,		
		The PS	SE State diagra	m will be left open for c	omment in the next o	comment cycle.
		See co	omment # 225.			
		A	e	nt results in no change		

C/ 33 SC 33.2.7.7 P 69 L1 # 313 C/ 33 SC 33.1.4 P 21 L 50 # 315 Darshan, Yair Picard, Jean **Texas Instruments** Microsemi Comment Type TR Comment Status A Pres: Type 4 Power Comment Type TR Comment Status D Power System A Type 4 version of figure 33-14 will be needed. There are fundamental differences The Title of clause 33.1.4 was in the past "Type 1 and Type 2 system parameters" and was between type 3 and type 4 Power on state behavior. changed to System parameters". This change and the modification in line 54 address types 3 and 4 too. SuggestedRemedy Figure 33-14a to be proposed. The problem is that in the current standard (IEEE802.3-2012) the text in line 50 that says: "A power system, consists of a single PSE..." that was correct for Type 1 and Type 2 Response Response Status C PSEs, is not correct for Type 3 and 4 PSEs. ACCEPT IN PRINCIPLE. Single PSE was OK for Type 1 or 2 due to the fact that we could use ALT A PSE or ALT B PSE but not both so a "single PSE" term was correct to use. Results in no changes to text. Waiting for presentation in July. In Type 3 or 4 PSEs, the term single PSE is confusing term due to the fact that Type 3 and 4 PSEs can use a PSE that uses ALT A and ALT B PSEs or use a PSE with two outputs C/ 33 SC 33.2.6.2 P 61 L 13 # 314 connected to ALT A and ALT B pair-sets or using any other PSE implementations that do Darshan, Yair the work. Microsemi The point is that it is not just a single PSE with one output connected to two pair-sets. It is Comment Type E Comment Status A Editorial more like a single PSE system etc. Table 33-10 item 8, additional information column. SuggestedRemedy Missing word "which" in the following text. Replace "single PSE" by "single PSE system" "The maximum value of TME2 is limited by the maximum allowed time from end of detection until power-on ----which---- is limited by 33.2.7.12. Proposed Response Response Status Z REJECT. SuggestedRemedy This comment was WITHDRAWN by the commenter. Change the additional information text from: "The maximum value of TME2 is limited by the maximum allowed time from end of detection until power-on is limited by 33.2.7.12. The PSE is defined as: A DTE or midspan device that provides the power to a single To: link section. DTE powering is intended to provide a single 10BASE-T, 100BASE-TX, or "The maximum value of TME2 is limited by the maximum allowed time from end of 1000BASE-T device with a unified interface for both the data it requires and the power to detection until power-on which is limited by 33.2.7.12. process these data. Response Response Status C ACCEPT IN PRINCIPLE. link section: The portion of the link from the PSE to the PD. Change the additional information text from: The PSE specs are defined at the PI and thus the PSE is a black box and still a "single "The maximum value of TME2 is limited by the maximum allowed time from end of PSF". detection until power-on is limited by 33.2.7.12. To: "The maximum value of TME2 cannot exceed the maximum allowed time from end of detection until power-on which is limited by 33.2.7.12.

IEEE 802.bt D1.0 4-Pair Power over Ethernet 3rd Task Force review comments

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

Comment ID 315

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C/ 33 SC 33.1.4.1 P 23 L 22 Darshan, Yair Microsemi	# 316	<i>Cl</i> 33 <i>SC</i> 33A.4 Darshan, Yair	P 145 L 34 Microsemi	# 318
Comment Type E Comment Status A Editor note: Lines 22-27 Type 4 requirements is defined. The rest will be defined in TIA As a result we can delete the Editor note.	A TSB-184-A.	SuggestedRemedy	Comment Status A tion 33a-2 and not Equation 33a-1.	Editoriai
SuggestedRemedy Delete the editor note in lines 22-27, page 23.		Change from Equation Response ACCEPT IN PRINCIPL	33a-1 TO Equation 33a-2. <i>Response Status</i> C F	
Response Response Status C ACCEPT.		OBE by comment # 91.		
EZ		EZ		
C/ 33SC Annex 33AP 145L 9Darshan, YairMicrosemi	# 317	<i>Cl</i> 33 <i>SC</i> 33A.4 Darshan, Yair	P 145 L 37 Microsemi	# 319
Comment Type E Comment Status A Text says: "Insert 33A.3 and 33A.4 after 33A.2 as follows:" Where is 33A.2 in Draft 1.0? Where is the text of PSE-PD stability?	Editorial	Equations use Rch_ma remove the "\" from Rcl	Comment Status A ion 33a-2 and Equation 33a-3: ax and Rch_min instead Rch_max and Rch_min n_max and Rch_min (6 locations)	Editorial
SuggestedRemedy Where is 33A.2 in Draft 1.0?		SuggestedRemedy remove the "\" from Rcl lines 37 and 45.	n_max and Rch_min in equations 33a-2 and 33a-	3 (6 locations) in
To restore "33A.2 PSE-PD stability" text as 33A.2. Response Response Status C ACCEPT IN PRINCIPLE.		Response ACCEPT IN PRINCIPL	Response Status C E.	
I believe the existing annex is there just not shown. Editor to	confirm.	OBE by comment # 90.		
EZ		EZ		

CI 33 SC 3	33.2.4.4	P 34	L 42	# 320	C/ 33	SC	33	P 0	LO	# 322
Darshan, Yair		Microsemi			Darshan, '			Microsemi	-•	
	_alts_valid: e:do_detection	omment Status A does not yields "valid" or yield "valid" on both pair		Editorial		dnt find mentatio	on specifi	Comment Status D at that all requirements are released to adress the operation of		
(There are oth	ner comments	er approved baseline tex related to same problem n elast version).		probably copied	Claus		fines the	Type 1,2,3 and 4 systems rec uirements are implementation		a single port system.
SuggestedRemed	ly				(or eq	uivalen	wording)			
	etection yields	"valid" on both pair-sets not yield "valid" on both			Proposed REJE		ise	Response Status Z		
Response ACCEPT IN P		sponse Status C			This c	ommen	it was WI	THDRAWN by the commente	ır.	
OBE by comm EZ	nent #208				Add te	ext:				
 C/ 33 SC : Darshan, Yair	33.2.4.4	P 35 Microsemi	L 6	# 321				e requirements for a single po ementation specific."	ower system. N	lulti-port power system
<i>Comment Type</i> In the followin PD_4pair_can This variable i	g variable: ndidate is provided for	Type 3 and Type 4 PSE r on both pair sets.	s to determine	4PID		d of 33. bly legad				
		not clear. lidateIt is to determine if	a class 0-4 PD	can recived and work						
SuggestedRemed	ly	be "a PD" or "a device" ("a PD class 0-4"	or "a PD class ()-4".						
Response ACCEPT IN P		sponse Status C								
Replace "conr	nection" with "c	connected device"								

Comment Type TR Comment Status A PPD There is no reason why PD_dpar_candidate results will be ready only before classification. In the system level we need to know if the result of do_detection is valid for pair-set A or for the ready and y the polyce. In the system level we need to know if the result of do_detected a PD requesting power. Change lines False: Do not proceed to 4 pair classification. The is ystem level we need to know if the result of the pair-set A or Mode A Note and the pair classification ALT A only or valid on ALT B only. To: To: <th>C/ 33 So Darshan, Yair</th> <th>C 33.2.4.4</th> <th>P 35 Microsemi</th> <th>L 9</th> <th># 323</th> <th></th> <th>C/ 33 Darshan, `</th> <th>SC 33. Yair</th> <th>2.4.6</th> <th>P 41 Microsemi</th> <th>L 50</th> <th># 325</th> <th></th>	C/ 33 So Darshan, Yair	C 33.2.4.4	P 35 Microsemi	L 9	# 323		C/ 33 Darshan, `	SC 33 . Yair	2.4.6	P 41 Microsemi	L 50	# 325	
C/33 SC 33.2.4.4 P37 L9 # 324 Darshan, Yair Microsemi Comment Type TR Comment Status A comment Status C comment Status	There is no It can be re SuggestedRem Change line Values: False: Do n True: Proce To: Values: False: This True: This F Response	Preason why ady at any ti eedy es 9-10 from not proceed t eed to 4 pair PD is not a	PD_4pair_candidate results me prior power_up. : o 4 pair classification. classification. candidate for powering up wi idate for powering up with po	th power on bo	h pair sets.		In the pair se sets re We ne Suggested Chang valid: To: valid: valid_ on Mo valid_	system level et or both v esult with v eed also to dRemedy ge from: The PSE h For Type 1 4P_A: For ode A 4P_B: For	vel we ne vhen 4P valid sigr know if nas detee and Typ Type 3 a	eed to know if the result of systems are used. Last tin ature. it is valid on ALT A only or cted a PD requesting powe pe 2 PSEs: The PSE has d and Type 4 PSEs: The PSE	ne we covered th valid on ALT B o r. etected a PD re E has detected a	valid for pair-set A e case where both only. questing power. PD requesting por	or n pair
A variable indicating if the PSE output current over at least one pair-set has been in an	Darshan, Yair Comment Type At the syste pair-sets. As a result, SuggestedRem Change from A variable in 33.2.7.6) fo To: A variable in condition (s Response ACCEPT IN Change from A variable in 33.2.7.6) fo	TR em level we n the variable nedy m: ndicating if th r" ndicating if th see 33.2.7.6) N PRINCIPLI m: ndicating if th	Microsemi <i>Comment Status</i> A need to know if we have over ovld_detected text need to b the PSE output current has be the PSE output current over a for" <i>Response Status</i> C =.	load condition be updated. een in an overlo pair-set has be	PSE State D over a pair set, fo ead condition (see	bor both	ACCE	PT IN PRI	-				
	A variable i			t least one pair	-set has been in a	an							

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

CI 33 SC	33.2.0A	P 24	L 31	# 326	CI 33	SC 33.3.7.3	Р	90	L 28	# 328
Darshan, Yair		Microsemi			Darshan, Yair		Micr	osemi		
Comment Type	ER	Comment Status D		PSE Types	Comment Typ	e TR	Comment Status	6 D		Pres: Inrust
allowed to im power suppor It will be help PSE types.	plement the r rted per its ty ful to add suc	cations in our standard tha maximum class events tha rpe and class. ch note right after Table 33	t corresponds	to the maximum PSE	33.3.7.3 I Inrush cu pair set c before TI	nput inrush o rrent per pair ompliant with nrush-2P mir	-set is drawn beginn Vport_PD-2P requi	ing with the ements as ter TInrush-	application of defined in Tab 2P min, the Pl	d on lines 28-31): input voltage at the ole 33-18, and ending D shall not exceed its
SuggestedRemed	-	law table 00 da that a sur						-		
5-PSE that is	s defined as D	elow table 33-1a that says: DLLL capabale and implem naximum power supported			capacitor	After PD in	it is not clear that lin out capacitance is ch it is possible that du	arged, the o	capacitor curre	ent is decaying to zero
Proposed Respor	nse F	Response Status Z			contain a		d component that is			
REJECT. This commer	nt was WITHI	DRAWN by the commente	r.		As a resi generatin current=0	ult the PD inp g a charging .4A-0.35A=5	out current is split to current of: Icharging 0mA which guarante	the PD resis g=linrush-2F es that may	stive load and P_min -Type 1 kimum PD inpu	
This is alread	dy contained i	in the table by use of the w	ork "optional"	in the DLL column.	Tinrush=	Dpd_max*(V	ose_min-Voff)/(lunru	sh_min-Ipor	t_cont)=180uF	F*(44V-30V)/(0.4A-
	33.2.4.7	P 44 Microsemi	L 54	# 327	In similar 180uF*20	way for Type V/(0.4A-0.30	s is the reason why 2: Tinrush =180uF 08A)=39.13msec <50 observed almost imn	*(50V-30V)/)msec which	(0.4A-15.4W/5 n is OK.	50V)=
Darshan, Yair		Microsemi	L 54	# 327	In similar 180uF*20 As a resu (within fe	way for Type V/(0.4A-0.30 It, linrush is w msec) and	2: Tinrush =180uF 8A)=39.13msec <50 bserved almost imn PD resistive load ma	*(50V-30V)/ msec which nediately wh	(0.4A-15.4W/5 n is OK. nen PSE applie	50V)=
Darshan, Yair <i>Comment Type</i> The title of fig It says: "Figure 33–9-	TR gure 33-9 on —Type 1 and	Microsemi Comment Status R page 44 is incorrect. Type 2 PSE state diagrar	n (continued)"	# 327 PSE State Diagram	In similar 180uF*20 As a resu (within fe frame wit There are stable. 3. detect wit	way for Type V/(0.4A-0.30 It, linrush is w msec) and h maximum 2-3 main PI Vport, short hout waiting	2: Tinrush =180uF 38A)=39.13msec <50 bbserved almost imn PD resistive load ma value of 350mA. D POWER UP profile	*(50V-30V)/ msec which nediately wh ay follow it a es (1. short In all of ther	(0.4A-15.4W/5 n is OK. hen PSE applie at any time dur load, ramp, st n completion o	50V)= es Voltage to PD ring POWER UP time
Darshan, Yair Comment Type The title of fig It says: "Figure 33–9- The drawing	TR gure 33-9 on —Type 1 and shows the PS	Microsemi Comment Status R page 44 is incorrect.	n (continued)"	# 327 PSE State Diagram	In similar 180uF*20 As a resu (within fe frame wit There are stable. 3. detect with SuggestedRe	way for Type V/(0.4A-0.30 It, linrush is w msec) and n maximum 2-3 main PI Vport, short hout waiting <i>medy</i>	 2: Tinrush =180uF 28A)=39.13msec <50 observed almost imm PD resistive load ma value of 350mA. OPOWER UP profile load, ramp, stable). for the completion of 	*(50V-30V)/ msec which nediately wh ay follow it a es (1. short In all of ther	(0.4A-15.4W/5 n is OK. hen PSE applie at any time dur load, ramp, st n completion o	50V)= es Voltage to PD ring POWER UP time rable. 2. Flat, ramp,
Darshan, Yair Comment Type The title of fig It says: "Figure 33–9- The drawing s SuggestedRemed Change the ti "Figure 33–9- To "Figure 33–9	TR gure 33-9 on —Type 1 and shows the PS <i>dy</i> itle figure 33- —Type 1 and	Microsemi Comment Status R page 44 is incorrect. Type 2 PSE state diagrar	n (continued)" ram of of Type n (continued)"	# 327 PSE State Diagram	In similar 180uF*20 As a resu (within fe frame wit There are stable. 3. detect wit SuggestedRee Add the f Successf PD not di	way for Type V/(0.4A-0.30 It, linrush is w msec) and n maximum v 2-3 main PI Vport, short hout waiting <i>medy</i> blowing text ul POWER L awing more	 2: Tinrush =180uF 28A)=39.13msec <50 observed almost imm PD resistive load maralue of 350mA. D POWER UP profile load, ramp, stable). for the completion of after line 31: 	*(50V-30V)/ Imsec which hediately wh ay follow it a es (1. short In all of ther Tinrush tim PSE supplyi m DC curre	(0.4A-15.4W/5 n is OK. hen PSE applie at any time dur load, ramp, st n completion of her. ing Inirush-2P nt which result	50V)= es Voltage to PD ring POWER UP time table. 2. Flat, ramp, of linrush is possible to minimum value and t with stable voltage
Darshan, Yair Comment Type The title of fig It says: "Figure 33–9- The drawing s SuggestedRemed Change the ti "Figure 33–9- To	TR gure 33-9 on 	Microsemi Comment Status R page 44 is incorrect. d Type 2 PSE state diagrar SE classification state diag 9 on page 44 from" d Type 2 PSE state diagrar ype 2, Type 3 and Type 4 F	n (continued)" ram of of Type n (continued)"	# 327 PSE State Diagram	In similar 180uF*20 As a resu (within fe frame wit There are stable. 3. detect wit SuggestedRe Add the f Successf PD not du ramping a	way for Type V/(0.4A-0.30 It, linrush is w msec) and n maximum 2-3 main PI Vport, short hout waiting <i>medy</i> blowing text ul POWER L awing more across PD in	 2: Tinrush =180uF 28A)=39.13msec <50 bobserved almost imm PD resistive load may value of 350mA. D POWER UP profile load, ramp, stable). for the completion of after line 31: IP is guaranteed by I than Type 1 maximu 	*(50V-30V)/ Imsec which hediately whay follow it a es (1. short in all of ther Tinrush tim PSE supplyim DC curre etails in Ann	(0.4A-15.4W/5 n is OK. hen PSE applie at any time dur load, ramp, st n completion o her. ing Inirush-2P nt which result ex A_PD_Inru	50V)= es Voltage to PD ring POWER UP time table. 2. Flat, ramp, of linrush is possible to minimum value and t with stable voltage
Darshan, Yair Comment Type The title of fig It says: "Figure 33–9- The drawing s SuggestedRemed Change the ti "Figure 33–9- To "Figure 33–9 (continued)"	TR gure 33-9 on 	Microsemi Comment Status R page 44 is incorrect. Type 2 PSE state diagrar SE classification state diag 9 on page 44 from" Type 2 PSE state diagrar	n (continued)" ram of of Type n (continued)"	# 327 PSE State Diagram	In similar 180uF*20 As a resu (within fe frame wit There are stable. 3. detect wit SuggestedRe Add the f Successf PD not du ramping a	way for Type V/(0.4A-0.30 It, linrush is w msec) and n maximum v 2-3 main PI Vport, short hout waiting <i>medy</i> blowing text ul POWER L awing more across PD in PD_Inrush	 2: Tinrush =180uF 28A)=39.13msec <50 bobserved almost imm PD resistive load may value of 350mA. D POWER UP profile load, ramp, stable). for the completion of after line 31: IP is guaranteed by I than Type 1 maximu but capacitor. See de 	*(50V-30V)/ Imsec which hediately wh ay follow it a es (1. short In all of ther Tinrush tim PSE supplyi m DC curre etails in Ann n_08_0615.	(0.4A-15.4W/5 n is OK. hen PSE applie at any time dur load, ramp, st n completion o her. ing Inirush-2P nt which result ex A_PD_Inru	50V)= es Voltage to PD ring POWER UP time table. 2. Flat, ramp, of linrush is possible to minimum value and t with stable voltage
Darshan, Yair Comment Type The title of fig It says: "Figure 33–9- The drawing s SuggestedRemed Change the ti "Figure 33–9- To "Figure 33–9 (continued)" Response REJECT.	TR gure 33-9 on shows the PS <i>dy</i> itle figure 33- —Type 1 and —Type 1, Ty <i>F</i>	Microsemi <i>Comment Status</i> R page 44 is incorrect. d Type 2 PSE state diagrar SE classification state diag 9 on page 44 from" d Type 2 PSE state diagrar ype 2, Type 3 and Type 4 F Response Status C	n (continued)" ram of of Type n (continued)"	# 327 PSE State Diagram	In similar 180uF*20 As a resu (within fe frame wit There are stable. 3. detect wit SuggestedRee Add the f Successf PD not di ramping a (Annex A	way for Type V/(0.4A-0.30 It, linrush is w msec) and n maximum v 2-3 main PI Vport, short hout waiting medy blowing text ul POWER L awing more across PD in PD_Inrush sponse	 2: Tinrush =180uF 28A)=39.13msec <50 29bserved almost imm PD resistive load mayalue of 350mA. 2 POWER UP profile 2 POWER UP profile 2 load, ramp, stable). 3 for the completion of 2 after line 31: 3 guaranteed by I 3 than Type 1 maximu 3 but capacitor. See de 	*(50V-30V)/ Imsec which hediately wh ay follow it a es (1. short In all of ther Tinrush tim PSE supplyi m DC curre etails in Ann n_08_0615.	(0.4A-15.4W/5 n is OK. hen PSE applie at any time dur load, ramp, st n completion o her. ing Inirush-2P nt which result ex A_PD_Inru	50V)= es Voltage to PD ring POWER UP time table. 2. Flat, ramp, of linrush is possible to minimum value and t with stable voltage
Darshan, Yair Comment Type The title of fig It says: "Figure 33–9- The drawing s SuggestedRemed Change the ti "Figure 33–9- To "Figure 33–9 (continued)" Response REJECT.	TR gure 33-9 on shows the PS <i>dy</i> itle figure 33- —Type 1 and —Type 1, Ty <i>F</i>	Microsemi Comment Status R page 44 is incorrect. d Type 2 PSE state diagrar SE classification state diag 9 on page 44 from" d Type 2 PSE state diagrar ype 2, Type 3 and Type 4 F	n (continued)" ram of of Type n (continued)"	# 327 PSE State Diagram	In similar 180uF*20 As a resu (within fe frame wit There are stable. 3. detect wit SuggestedRee Add the f Successf PD not du ramping a (Annex A Proposed Re REJECT.	way for Type V/(0.4A-0.30 It, linrush is w msec) and n maximum v 2-3 main PI Vport, short hout waiting <i>medy</i> blowing text ul POWER L awing more across PD in PD_Inrush sponse	 2: Tinrush =180uF 28A)=39.13msec <50 29bserved almost imm PD resistive load mayalue of 350mA. 2 POWER UP profile 2 POWER UP profile 2 load, ramp, stable). 3 for the completion of 2 after line 31: 3 guaranteed by I 3 than Type 1 maximu 3 but capacitor. See de 	*(50V-30V)/ Imsec which hediately wh ay follow it a es (1. short In all of ther Tinrush tim PSE supplyin m DC curre etails in Ann n_08_0615. Z	(0.4A-15.4W/5 n is OK. hen PSE applie at any time dur load, ramp, st n completion o her. ing Inirush-2P nt which result ex A_PD_Inru	50V)= es Voltage to PD ring POWER UP time table. 2. Flat, ramp, of linrush is possible to minimum value and t with stable voltage

C/ 33 SC 33.3.5.2 P 85 L 27 # 329 Darshan, Yair Microsemi	C/ 33 Darshan, Yai	SC 33.2.6.2	P 59 Microsemi	L 53	# 330
Comment Type TR Comment Status A Pres: Dua	I Class Comment Ty	e TR	Comment Status A		Pres: Dual Class
The following is a simple proposal that doesn't add new requirements for PSE and Pl addresses classification requirements when dual signature PD is connected to Type 3 4 PSE.	3 and		E issues the classification ev events may apply on one of		
 No need to distinguish between Dual Signature Single Load and Dual Signature Duload. Result with simple specification. Efficient L1 power management Dual signature PD (single load or dual load, doesn't matter) will use only classes 0 over each pair-set. The PD specifies the amount of power required over each pair set using the relevant class code (from the exiting list) over each pair set. Valid class cod are 0 to 5. (5+5 = 90W, 4+4 = 60W, 4+3 = 45W and so on). A Dual Signature, single load PD is allowed to show different class codes. If it does so, it will likely violate the current limit of one of its pair sets and get disconnets. PSEs that don't want to deal with different class codes can take the larger class of two pair sets and apply that power to both. PSEs that don't want to deal with dual load PDs can opt not to power them. 	same tim DS PD: 0 to 5 by es To add th ected. the SS PD: 0 same tim	e or some of air-set as lor classification oplied at the <i>medy</i> e following to e following to classification e or some of	the events on first pair set a og as the PD receives the co events need to be applied to same time to both pair sets of ext after the end of clause 33 ext at the classification section events may apply on one of the events on first pair set a ng as the PD receives the co	nd then the rema rrect total numbe o each pair set. Ap or in non-overlapp 3.2.6.2: on at clause TBD the pair-sets or o nd then the rema	atining class events on r of class events. pplication of the events bing way. after line TBD: on both pair sets at the atining class events on
See darshan_05_0615.pdf for detailed discussion and remedy.			events need to be applied to		
SuggestedRemedy			same time to both pair sets of		
 Add the following text in the classification section in page 85 after line 27 before tal 17: 	Response	IN PRINCIP	Response Status C		
Dual Signature Single Load PDs and Dual Signature Dual Load PDs shall use only cla to 5 power level over each pair set. The class code advertised over each pair set is the total power requested by the PD c	Add text:				
that pair set (The PSE will deliver to the total class power over each pair set to the PD determine the total power that will deliver to the PD).)) "When c	nnected to a the pair set	a single-signature PD, a PSE s."	shall classify the	PD only once on one
Dual Signature PDs may use different class signature per pair set.ResponseResponse StatusC	after line	52 on page \$	59.		
ACCEPT IN PRINCIPLE.					
Adopt Text on pages 6 and 7 of darshan_05_0615_rev006.pdf					

Cl 33 SC 33.2.4.7	<i>P</i> 51	L 7	# 331		C 33.2.47	P 50	L 30	# 333
(The editor note regard section is not required. We agree on it during t	xt in the 4P-ID baseline text is ling clarifying Type 3 and Typ	e 4 requiremen line text and al	so remove the text that	SuggestedRen Change "p	renthesis ir nedy d_4pair_ca	Microsemi <i>Comment Status</i> A a the logical equation. andidate = (both_alts_valid)*[Pi ig_4p_power)].	D_signature = S	4PIC ingle + (PD_signature=
SuggestedRemedy Remove the editor note	e text.					ndidate = (both_alts_valid)*[(F * (!deny_dual_sig_4p_power)		Single) +
Response ACCEPT. EZ	Response Status C			Response ACCEPT. EZ		Response Status C		
<i>Cl</i> 33 <i>SC</i> 33.2.5 Darshan, Yair	P 50 Microsemi	L 47	# 332		°C 33.3.7.3	P 90 Microsemi	L 53	# 334
Comment Type TR The text: "Specifically, Type 3 ar prior to applying power Was not approved to b		ne detection pro	PSE Detection be to both pair sets	required du was ended In some lai	vant to wait ue to measu earlier. rge mutipor	Comment Status D 50- 75msec in Type 3 and 4 s uring PD voltage/current/time t systems time for all ports to PSE power supply power capa	profile by the PS be ON is affecte	SE and knowing that it ed by Tinrush*N. N
SuggestedRemedy 1. Delete this text. 2. Please verify that ap Response ACCEPT IN PRINCIPL	pproved last presentation vers Response Status C E.	ions are used to	o for its baseline text.	To address 1. Shorteni	tor Note at the followi ng Tinrush ng Tinrush b	if PSE has the knowledge that by allowing higher linrush_max		
OBE by comment # 9 EZ				Proposed Resp	oonse	Response Status W sentation in July.		
						pic that has a large techinical material if you would like it to l		

Cl 33 SC 33.2.5.6 P 54 L 46 # 335 Darshan, Yair Microsemi Microsemi </th <th>C/ 33 SC 33.1.4 P 22 L 38 # 336 Darshan, Yair Microsemi</th>	C/ 33 SC 33.1.4 P 22 L 38 # 336 Darshan, Yair Microsemi
Comment Type T Comment Status A 4F Reference to 33.2.5.0 is placed in the wrong place. 33.2.5.0 is the palce where connection check is metioned bit not for other system information 4F	Comment Type E Comment Status A Unbalance I am still in the research of the effect of extended power on Icont-2P_unb for Type 4 and it looks that we will have to make a specification design so the maximum current including P2P_Effect will gurantee that Icont-2P_unb=Icut_min-2P will be <=1A.
SuggestedRemedy Replace: "the result of connection check and the results of other system information, as described in 33.2.5.0." With: "the result of connection check as described in 33.2.5.0 and the results of other system information."	SuggestedRemedy Add to the Editor Note after the the text (line 38)" Type 4: lcont-2p=865mA, lcont-2p_unb=1087mA") The following text: Type 4 lcont-2P_unb will have to be lower than 1087mA e.g. <=1A in order to reduce stress on transformers due to impact later on Ipeak, ILIM_MIN etc. The plan is to do it by requiring more tight P2P_lunb at high current from a PD that wants
Response Response Status C ACCEPT IN PRINCIPLE. With: "the result of connection check as described in 33.2.5.0a and the results of other system information."	to use extended power. Technically it is feasible. <i>Response Response Status</i> ACCEPT IN PRINCIPLE. Do not add text from suggested remedy. Instead add: "These numbers are under review and are expected to be changed."

Cl 33 Darshan, `	SC 33.2.7 Yair	P 63 Microsemi	L 11	# 337	CI 33 Darshan, Y	SC 33.2.7 ′air	P 63 Microsemi	L 24	# 338
Comment	Туре Т	Comment Status A		Pres: Icon	Comment	Т <i>үре</i> т	Comment Status A		PSE Power
Table At wor Icut_m (Icont- (0.668 In sim Icont-2 Icont-2 Suggested	33-11 item 7, Icut- st case P2P_lunb nin-2P=Icont-2P_ur 2P_unb_max/Icon /0.6)*0.5*Pclass/V ilar way for Type 4: 2P_unb=(0.931/0.8 2P_unb=0.538*Pcla <i>IRemedy</i>	2P for type 3,4: To replace ⁻ conditions: nb= t-2P_max)*0.5*Pclass/Vport port_PSE-2P=0.556*Pclass	_PSE-2P= /Vport_PSE-2P 2P=1.076*0.5*F	ssion. ⁹ for Type 3 PSE. ⁹ class/Vport_PSE-2P.	Table We ca energy Type 3 Type 4 TLIM-2 Desigr TLIM-2 Suggested TLIM-2	33-11 item 10, T n replace the TE content used ir worst case ene worst case ene 2P=0.3/50=6mse margin=2msec 2P=4msec.	LIM-2P for type 4: BD with a shorter number that a Type 3 in order to keep the ergy on current limiter over a ergy on current limiter over a ec max. D04 for Type 4	same stress ove pair set: 30W*10	to keep the same r the current limiter. Imsec=0.3Joule
details	/				Response		Response Status C		
lcut-2		ss/Vport_PSE-2P for Type 3 ss/Vport_PSE-2P for Type 4			There	PT IN PRINCIPI must have been not need to add	margin already in the Type	3 number (direct	y based off Type 2), so
Response		Response Status C			we do	not need to add	more margin.		
	PT IN PRINCIPLE		rov004 pdf			ble 33-11, item 2P minimum=0.0			
Accep	t baseline text on p	bage 1 of darshan_07_0615	_revoo4.pai		C/ 33	SC 33.2.7	P 63	L 17	# 339
					Darshan, Y		Microsemi		
					Comment	Туре Т	Comment Status A		Pres: ILIM
							IM-2P for type 3,4: To replac Darshan_06_0615.pdf.	e TBD with num	pers per the the
						summary: P_MIN>=Ipeak-2	2P_max per figure 33-14.		
							and 4 can be found by equa ation 33-12 and 33-12a and		
					Suggested See da	•	5.pdf for updated Table 33-1	1 item 9.	
					Response ACCE	PT IN PRINCIPI	Response Status C _E.		
					Accep	t text on page 3	of darshan_06_0615_rev00	4.pdf	

C/ 33 SC 33.2.7 Darshan, Yair	P 64 Microsemi	L 11	# 340	C/ 33 SC 33.2.7.7 P 68 L 48 # 343 Darshan, Yair Microsemi
Two erros: 1. ">=" and not ">" 2. Pclass(5) and not P	e line text, Pclass>= Pclass(5)		Editorial	Comment Type E Comment Status A Editoria Typo. fromany is from any SuggestedRemedy Change to "from any" Change to "from any" Response Response Status C ACCEPT IN PRINCIPLE. C
SuggestedRemedy				
Change to Pclass>= F				OBE by comment # 148
Response ACCEPT.	Response Status C			EZ
C/ 33 SC 33.2.7 Darshan, Yair	P 64 Microsemi	L 7	# 341	C/ 33 SC 33.2.7.4 P 66 L 25 # 344 Darshan, Yair Microsemi
Add: "see 33.2.9.1.2"	Comment Status A 17a, 17b. In the additional infor II PSE types in all the rows of i			Comment Type E Comment Status A Editoria Remove Editor note regarding K. It is no longer required after the the updates for K are done. SuggestedRemedy Remove Editor not eregarding K.
SuggestedRemedy	nformation column for each rov	w of items items	s 17, 17a, 17 (6	Response Response Status C ACCEPT IN PRINCIPLE.
Response ACCEPT. EZ	Response Status C			Remove Editors note that begines with "In the above equation" on line 25 of page 66.
C/ 33 SC 33.2.7 Darshan, Yair	P 64 Microsemi	L 38	# 342	
Comment Type TR Table 33-11 item 22, 0 Cout is correct over a	Comment Status A Cout. pair-set for type 3 and 4 as we	·II.	PSE Detection	
SuggestedRemedy Change parameter na	me to: luring detection state over a pa			
Response ACCEPT.	Response Status C			

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

C/ 33 SC 33.2.7.4a Darshan, Yair	P 66 Microsemi	L 50	# 345	C/ 33 Darshan, Y	SC 33.2.7 /air	P 64 Microsem	L 12	# 347
Comment Type T Update the constant fro	Comment Status A m 0.040 to 0.042 per latest r m page 67 line 6. (Work is do quation 33-4a: m 0.040 to 0.042. ove the editor note. Response Status C		PSE Unbalance	Comment Table The te of the with th Suggestee	Type E 33-11 item 17, xt: "The pair so same polarity e highest curro <i>IRemedy</i> le to "The pair	Comment Status A additional information colu et with highest current" is no and we care of the pair with	mn, line 12 ot clear since we ar	
1. Page 66 line 50 in ec Update the constant fro Update the constant fro 2. Page 67 line 6: Rem	m 0.040 to 0.042. m 0.052 to 0.053.			C/ 33 Darshan, Y Comment		P 76 Microsem Comment Status A	<i>L</i> 11	# 348 PD Powe
arshan, Yair	P 67 Microsemi Comment Status D	L 36	# 346 PSE Power	Table	naximum powe	er a PD expects to draw fror emoved and should be resto in 802.3at.		
It is usefull to allow high start for the following re a)Reducing dynamic st	ner Inrush current than 450m. asons: ress on the MOSFET during	POWER UP an	e from POWER UP			e maximum power a PD exp ble 33–18."	ects to draw from a	a PSE is PClass_PD
	with lower probability for start behaviour during startup tha		dent.	Response ACCE	PT IN PRINCI	Response Status C		
Add the following text a	fter line 36.			Do not	implement re	medy.		
PSE inrush template in	urrent sourced by the PSE pe Figure 33–13 only TBD mse P maximum as specified by	after POWER	UP has started and	of the	PD is the max	ne PD is classified based or imum power that all input voltages and oper		cal Layer classification
Proposed Response Hold open to July.	Response Status W			From	33.3.5.1 to beg	inning of 33.3.5		
Yair to present.								
Allowing higher current and build consensus fo	based on time is a brand nev r this idea.	v topic. Please	create a presentation					

C/ 33 Darshan, Y	SC 33.3.7 ′air	P 89 Microsemi	L 16	# 349	<i>Cl</i> 33 Darshan, `	SC 33.2.3 Yair	P 32 Microsemi	L 6	# 351
	<i>,</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Comment Status A It is 42V for Type 3 as we Is well.	II.	Table 33-18	Comment Mising Suggested	g coma in "wit	Comment Status R h a pair each carry"		Editorial
Suggested					••	•	air, each carry"		
	e PD Type to 1,2,3				Response	,	Response Status C		
Response		Response Status C			REJE	CT.			
	PT IN PRINCIPLE.				No co	mma is needed.			
	y comment # 115.				EZ				
Cl 33 Darshan, Y		P 88 Microsemi	L 49	# 350	C/ 33 Darshan, `	SC 33.2.6.2 Yair	P 60 Microsemi	L 22	# 352
Cport-2	33-18 item 9 Cport-2 2P need to be define	ed for Type 3 and 4.		Pres: Table 33-18	Comment	Туре Т	Comment Status D e case Iclass>51.0mA.		PSE Classification
		fined for Single signature	PD and Dual sig	inature PD.	Suggested	dRemedy			
		per the following (See ta	ble formate and	details in	Measu	ew row to table ure Iclass colum ification column:			
1. Cha	nge PSE type from	1,2 to 1,2,3.	Collocation and		•	Response	Response Status Z		
	pe 3 dual signatures	ormation of type 1,2,3 the PD.	following.		REJE	GT.			
For Ty	pe 3 single signatur	e PD during 4P operation Mode A and Mode B pair	, the total minim	um PD input er	This c	comment was W	ITHDRAWN by the commenter	er.	
3. Cha	nge PSE type from	3,4 to 4.	-		This li	mit is covered ir	the Iclass_lim value in Table	33-10 and is re	fered to in the text.
See 33 For Ty	3.3.7.6, 33.3.7.3. pe 4 dual signatures		-		C/ 33 Darshan, `	SC 33.2.6.2 Yair	P 61 Microsemi	L 16	# 353
		e PD during 4P operation Mode A and Mode B pair					Comment Status A 10. Add reference "see 33.2.6	.2" in the additio	Editorial nal information column.
					Suggested	dRemedy			
Response	F	Response Status C			Add re	eference "see 33	3.2.6.2" in the additional inform	nation columns f	for items 9 and 10.
•	PT IN PRINCIPLE.				Response		Response Status C		
OBE b	y comment # 114.				ACCE	PT.			
					EZ				

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

C/ 33 SC 33.2.4.4	P 35	L 19	# 354	CI 33	SC 33.2.0a	P 24	L 53	# 356
Darshan, Yair	Microsemi			Darshan, Y	/air	Microsemi		
Comment Type TR	Comment Status A		4PID	Comment	Туре Е	Comment Status A		PSE Typ
ID mechanisms.	ver signature current text blo	cks us to impler	nent more reliable 4P-	It is no	ot clear to the rea	3 below table 33-1a. ader in note 3 where we he c ation and 1 event Type 1 clas		differences between 1
The text says: "It is initially set to the va	alue of pd_4pair_candidate"			Suggestea Chang	<i>IRemedy</i> je "Table 10" in i	note 3		
The "is" should be replace	ced with "may"			to	10 items 11 an			
SuggestedRemedy				Response		Response Status C		
Replace: "It is initially set to the va	alue of pd_4pair_candidate"			•	PT IN PRINCIP			
To:				Chang	e "Table 33-10"	to "Table 33-10 items 11 and	d 12"	
	value of pd_4pair_candidat	e"		EZ				
Response	Response Status C			C/ 33	SC 33.2.0a	P 24	L 53	# 357
ACCEPT IN PRINCIPLE				Darshan, Y		Microsemi		
OBE by comment # 252				Comment	Туре Т	Comment Status A		Editor
C/ 33 SC 33.1.4	P 22	L 25	# 355		e 3 we have refe Ild be 33.2.6 or 3	rence to section 33.6.2. It loc 33.2.6.1 etc.	oks like error.	
Darshan, Yair	Microsemi			Suggestea	Remedy			
Comment Type E	Comment Status A		Unbalance	Update	e the reference	to the correct one.		
Last row for Type 4: Missing footnote to the p To change from 0.96 to	oair current 0.96 (note 2). (Sa 0.96 (note 2)	ame note as for	Туре 3)	Response ACCE	PT IN PRINCIP	Response Status C LE.		
SuggestedRemedy				Replac	ce 33.6.2 with 33	3.2.6.1		
To change from 0.96 to	0.96(note 2)							
Response	Response Status C			EZ				
ACCEPT IN PRINCIPLE								
OBE by comment #134.								

ΕZ

C/ 33 SC 33.3.7 Darshan, Yair	P 89 Microsemi	L 20	# 358	C/ 33 So Darshan, Yair	33.3.7.9	P 94 Microsemi	L 32	# 360
Comment Type TR Table 33-18 item 11 Voff It may be 30V for Type 4	Comment Status A : It is 30V for Type 3 as well. as well.		Table 33-18	Comment Type TR Comment Status A Pres: PD Unbala We need to add new subclause 33.3.7.10 after 33.3.7.9 for PD PI Pair to Pair resistance and current unbalance.				
SuggestedRemedy Change PD Type to 1,2,3	3 and 4 for Voff. Response Status C			effect of E2 This curren a PD vendo specified in	EP2P_lunb is also a lin r will have t the propose	, Icont-2P_unb we defined the /Runb. mit for the PD due to the fact to o design his PD to not exceed ed 33.3.7.10.	that it is the sa	ime current. As a result,
OBE by comment # 115.				SuggestedRem	•			
Cl 33 SC 33.3.7.4 Darshan, Yair Comment Type TR	P 91 Microsemi <i>Comment Status</i> A d on May was not copied cor	L 35	# 359 PD Power	33.3.7.10 P Type 3 and when tested	D PI Pair to Type 4 PD I with the te clause 33.3	the following content: Pair resistance and current us shall not exceed Icont-2Pun st setup specified in 33.3.7.10 3.7.10.1: Test setup and test of unbalance	b as specified 0.1.	
See approved baseline p http://www.ieee802.org/3 2. In addition the constru		- 8_0515_REV00			ontent of PI	D PI baseline text proposal in Response Status C	darshan_01_0	615.pdf to 33.3.7.10.1.
Peak power, Ppeak_PD, Equation (33-12) and equ powers of Class 0 throug	, for Class 4, 5 and 6 is base for Class 7 and 8 is based or uation (33-12a) are used to a h Class 8. These equations r ak_PD values obtained via Da	n Equation (33- pproximate the may be used to	12a). ratiometric peak o calculate peak	Adopt text i	n darshan_i	01_0615_rev013a.pdf pages 3	3 and 4.	
There is an other comme The comments were sep	ent that make changes to the arated deliberately due to the rk that needs to be approved	e fact that the 2						
	Response Status C							
OBE by comment # 370								

Cl 33 SC 3 Darshan, Yair	3.3.7.6	P 93 Microsemi	L 28	# 361	C/ 33 Darshan, `		33.2.7.5	P 67 Microsemi	L 1922	# 362	
after TLIM min applied. A curr Table 33–1). T VPort_PSE mi 2250 V/s. Sentence cons The "the follow SuggestedRemedy Change to: Type 1 PD inp after TLIM min is applied to th	ut curren (see Tal rent limite he curren in to VPo struction ving input v ut curren (see Tal he PI thro	Comment Status D t shall not exceed the PD up ble 33–11 for a Type 1 PSE ed voltage source is applied nt limit meets Equation (33– rt_PSE max at makes it unclear. voltage is applied." can be t shall not exceed the PD up ble 33–11 for a Type 1 PSE ugh a RCh resistance (see the voltage ramps from VPor) when the follow to the PI through 14) and the volta removed. pperbound templa) when a current Table 33–1). The	ing input voltage is a RCh resistance (see age ramps from ate (see Figure 33–18) limited voltage source current limit meets	a pair correc The p 1. It is lines ² 2. It is conclu may r be de 3. The when 4. Thi 5. Thi impor	ext: extraction for set persectly ascellar roblems redund 11-15. a not acc usion of tot know leted. e state r it is not s text m s text pr tant for	sist for the ertain the o s with this dant. A bet curate. The a PD's ini- v etc. but t machine va recomme- nakes assu- revents go effective lo	Comment Status A implementations, it is recommended complete duration of TInrus conclusion of a PD's inrush b text are: ter version of it can be found e text "the PSE may not be a rush behavior" is incorrect. If here is a correct way to do it ariable legacy_powerup allow nded. (It is not recommended umption that we can't know the ood working solutions that moto ow dissipation POWER-UP of	h-2P, as the PSE behavior." d in legacy_power able to correctly a you do it in a wro so I believe that ws it and supply a d if you look only he inrush profile wo ponitor voltage and	E may not be able to rup variable page 36 ascertain the ong way than PSE the whole text should accurate instructions on the voltage) which is incorrect. d current which is	
Proposed Respons REJECT.		Response Status Z	~		POW	ve the t ER_UP	text "Howe mode on	ever, for practical implementa a pair set persist for the com o correctly ascertain the conc	plete duration of	TInrush-2P, as the	
I his comment	was will	HDRAWN by the comment	er.		Response	•		Response Status C			
This is a Type	1 behavi	vior only. This can be submitted as a maintenance request.				ACCEPT IN PRINCIPLE.					
					Repla	ce sent	ence with:				
						0 1	powerup v DN transiti	variable in section 33.2.4.4 fo on."	or more informatio	on on the POWER_UP	

C/ 33		33.2.4.4	P 36	L 11	# 363	CI 33		33.3.7.3	P 90	L 90	# 365
Darshan,	Yair		Microsemi			Darshan,	Yair		Microsemi		
Comment	Туре	TR	Comment Status D		PSE State Diagram	Comment	Туре	TR	Comment Status R		PD Inrush
" is It sho " for It is w Suggester Repal inform with:	not ac uld be r PSEs rith syn d <i>Reme</i> lce The nation .	curate. (adding the that monito c to lines 13 edy e text " for "	at monitor the per pair set vo word "only"): or only the per pair set voltag 3-14 that means the same ar PSEs that monitor the per p or only the per pair set voltag	e output and us id use the word air set voltage	se that information" "only" as well. output and use that	IEEE: The r is acc charg 33-11 <i>Suggeste</i> Modif ne	802.3-2 eason curate p ed to 9 etc. dReme y the to w text-	2012. why they w ohisycal bel 09% of its fi edy ext per the t	factual behaviour was remover ere removed is relevent to the naviour of the PD i.e. Inrush nal value within a time durati following instructions: XXX):	e PSE but not i current period e	relevant for the PD as it ands when Cport is
Proposed REJE This c	CT.		Response Status Z	r.		pair s when TInru	et corr Cport sh-2P	pliant with is charged minimum p	set is drawn beginning with t Vport_PD-2P requirements a to 99% of its final value withi er Table 33-11. After TInrush shold corresponding to its cl	as defined in Ta n a time duration -2P min, the Pl	ble 33-18, and ending on of (strike "before")
C/ 33	SC	33.3.7.3	P 90	L 51	# 364	Response	9		Response Status C		
Darshan,	Yair		Microsemi			REJE	CT.				
Comment	Type	TR	Comment Status A		PD Inrush	Oot					
Defini For a And tl	tion of single	load PD, 10 ntion is that	e PD over a pair set is not ac DuF will be seen as 10uF fror we will have twice the capac	n any pair set b							
Suggeste	dReme	dy									
			dded after line 52 page 90: to be clarified when used in	single signatur	e PD and dual signature						
Response	;		Response Status C								
ACCE	EPT IN	PRINCIPLE	Ξ.								
OBF	bv com	ment # 114	Ļ								
UDL I	~										

Cl 33	SC 33.2.7.	6 P 68 Microsemi	L	# 366	Cl 33		33.2.5.6	P 54 Microsemi	L 44	# 367
Darshan, Ya					Darshan, N					
above th condition Currentl to decid We nee- timing th required condition Suggested R PSE ma or the m requeste When P	current requi ne advertised ns. y we have sp e when to re d to make it nresholds and by other pai ns that Pclas <i>Remedy</i> ay remove por heasured pow ed by the PD SE is measured nom the port, esponse	Comment Status D rements PSE is allowed to rem class or remove power as a re- becified the ICUT, TCUT, ILIM, move power. clear that PSE may remove po d also based on the measured ts of the standard regarding P s is violated. wer from a pair set if the measured re delivered from both pair set as advertised by its class. uring its output power and use in lout and ILIM threshold may b <i>Response Status</i> Z	esult of overload TLIM requirem wer based on th power consum SE and PD that sured power del ts exceeds the r it to limit the pow	d or short circuit ents in order to help us he above current and ed from the port as coperating in a ivered from that pair set maximum power	"Type candic Does i apply reads Suggestec Add n Note: , pair se Tble T Response ACCE	sing the 3 and 1 late to r it mean: 2P chec that I ca <i>IRemec</i> ote afte Applyin et is pow BD terr PT IN F	Type 4 PS receive po s that app ck LLDP a ant do it dy r line 47: g 4P powe wered first		applying 4 pain ne same time) in r? this is the rel set are powered	r power" s the only choice, can I liable way to do it but it at the same time or one
This cor	nment was V	VITHDRAWN by the comment	er.							
Add text	t:									
set or th	e measured	power from a pair set if the me power delivered from both pair as advertised by its class."								

to end of 33.2.7.6

	33.2.7	P 62	L 26	# 368	CI 33		33.3.7.4	P 91	L 44	# 370
Darshan, Yair		Microsemi			Darshan, '	Yair		Microsemi		
Comment Type	TR	Comment Status A		PSE Power	Comment	Туре	т	Comment Status A		PD Pow
possibility o In this kind o negligible do other compo	f higher PS of systems ue to the fa onents that ed resulting al problem.	rate a test setup for Table 33-1 E Vdiff than 2mV due cross re Vdiff may be >2mV but the eff ct that the resistance difference their resistance is much large with negligible effect on P2P_	gulation issue ect of P2P_lur e that cause th r the the PCB	s in multiport systems. hb at high current is he Vdiff is in series to Rdiff so it will be	E2EP affect Worki be too due too	2P_lunk the tran ng with high fo	o which af sformer d current ec r Type 4. P_lunb a	o reduce pair maximum curre fects the values of Icut-2P_m esign. Juation 33-12a with the 1.07 In addition, since it is new sta nd PD peak which doesnt ha	eax and ILIM_2F	P_min which eventually using ILIM_2P_MIN to ease Type 3 currents
00		ow Table 33-11 page 62 that s	avs.							
		oved before working group bal			Suggestee	dRemea	ly			
We need to is real issue	investigate or to ignor	Itiport systems may affect PSI how to address it in a test set e it due to meeting Icont_2p_u to keep same system limitation	up that will tell on ,or we nee	us if the increase Vdiff	2. Cha "Peak Peak	ange line power, power, f	es 35 to 4 PPeak_P PPeak_P[D, for Class 0 through 4 is ba D,for Class 5 through 8 is bas	ased on Equationsed on Equation	n 33-12a.
Response ACCEPT IN	I PRINCIPL	Response Status C E.			power	s of Cla	ss 0 throu	quation (33-12a) are used to Igh Class 8. This equation m alues obtained via Data Link	ay be used to c	alculate peak operating
Editor Note	(to be rem	ow Table 33-11 page 62 that s oved before working group bal investigation. It may be chang	ot):		Add "l	EPT IN F	PRINCIPL note to be single equ	e removed before publication:	Yair to move o	constants to table and
See 293										
C/ 33 SC Darshan, Yair	33.3.7.3	P 90 Microsemi	L 43	# 369						
Comment Type	TR	Comment Status A		Pres: Table 33-18						
		[:] 180uF total for a single signa ne current draft.	ure PD is suffi	cient or we must have						
SuggestedRem	edy									
Editor Note:	To investi V under al	ne 48 page 90: gate the max Cport value that (current specification of PSE \ ge etc.								
Response		Response Status C								
ACCEPT IN		.E.								
OBE by con	nmont # 27	1								
		1								

C/ 33 SC 33.1 Thompson, Geoff	P 19 GraCaSI S.A.	L 11	# 371	CI 33 Thompsor	SC 3 n, Geoff	3.2.1	P 25 GraCaSI S.A.	L 8	# 374
	Comment Status R tities allow devices to draw/supp data transmission." is too gener			coinci Suggestee	EXT: "P dent with dRemedy	the DTE/	Comment Status R be placed in two locations wit Repeater or midspan." COUI	_D BĖ MORE	CLEAR
CHANGE TEXT TO RE	EAD: "These entities allow devided of the component of th				ent, eithe		E may be placed in one of tw nt with the DTE/ Repeater or <i>Response Status</i> C		th respect to the link
Response REJECT.	Response Status C			REJE	CT.				
CHANGE TEXT TO RE	ecific. We call out cabling requ EAD: "These entities allow devid d cabling as is used for data tra	ces to draw/si		segme	ent, which s existing	h was dire	t an endpoint and midspan ar ctly allowed by the existing st we are not changing. This co	andard.	
	is can be submitted as a mainte	· · ·		CI 33 Thompsor		3.2.5.6	P 54 GraCaSI S.A.	L 45	# 375
Cl 33 SC 33.1.4.1 Thompson, Geoff Comment Type E Reference number is in SuggestedRemedy	P 23 GraCaSI S.A. Comment Status A ncorrect for TSB-184 in 802.3b>	L 20 «.	# <u>372</u> Editorial	Suggestee	no idea dRemedy	what "initi	Comment Status A ally" means in this sentence. y".		4PID
REPLACE "[60]" WITH Response	l "[61]" Response Status C			Response ACCE		RINCIPLE	Response Status C		
ACCEPT.	P 23	L 33	# 373	Add "(resolv		ter "initiall	y" in order to call commenter	s attention to	this line after 4PID is
Thompson, Geoff Comment Type E The two references in the are not hot links.	GraCaSI S.A. <i>Comment Status</i> A this line (11801, Annex 33)		Editorial						
SuggestedRemedy Link the references.									
Response ACCEPT.	Response Status C								
EZ									

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

C/ 33 SC 33.2.9.1 P 72 L 7 # 376 Thompson, Geoff GraCaSI S.A. GraCaSI S.A.	C/ 33 SC 33.1.3 P 21 L 41 # 378 Thompson, Geoff GraCaSI S.A.
Comment Type E Comment Status R Editorial Improve structure/grammar of sub-clause titles and voltage terms	Comment Type ER Comment Status A Editoria THE TEXT: "(1.4.268 in 41 P802.3bx/D2.0)." IS OUT OF DATE. THE CURRENT DRAFT IS D3.0
SuggestedRemedy Change "33.2.9.1.1 PSE AC MPS component requirements" to:"33.2.9.1.1 PSE MPS AC component requirements" and:"33.2.9.1.2 PSE DC MPS component requirements" to:"33.2.9.1.2 PSE MPS DC component requirements" and "AC MPS component" to "MPS AC component" and "DC MPS component" to "MPS DC component" Response Response Status	SuggestedRemedy Update to current location, which is 1.4.269 in D3.0 Response Response Status C ACCEPT IN PRINCIPLE. OBE by comment # 165
REJECT. These are the terms used since AF. They should be left the same as I do not think the suggested remedy brings any new clarity to them. This could be filed as a maintenance request.	EZ Cl 33 SC 33.1.4 P 22 L 27 # 379 Thompson, Geoff GraCaSI S.A. Comment Type ER Comment Status A Unbalance Note 1 points to 33.4.1.2 as well as Annex 33A. 33.4.1.2 is now effectively empty
C/ 33 SC 33.1.3 P 21 L 39 # 377 Thompson, Geoff GraCaSI S.A.	SuggestedRemedy IN LINE 27, REMOVE THE TEXT: "See Section 33.4.1.2"
Comment Type ER Comment Status A Editorial THE TEXT: "(1.4.336 in P802.3bx/D2.0)." IS OUT OF DATE. THE CURRENT DRAFT IS D3.0 SuggestedRemedy SuggestedRemedy Update to current location, which is 1.4.337 in D3.0	Response Response Status C ACCEPT IN PRINCIPLE. Do not implement suggested remedy. Instead, Change 33.4.1.2 to 33.1.4.2
Response Response Status C ACCEPT IN PRINCIPLE. OBE by comment # 165	CI 33 SC 33.1.4 P 22 L 30 # 380 Thompson, Geoff GraCaSI S.A. Comment Type ER Comment Status A Editoria
	Note 3 has an open reference and no link to a reference or bibliography entry for TSB-184- A in any form. The bibliography entry which is badly out of date. Further, [B61] (in 802.3bx D3.0) references a prepublication draft of TSB-184 and needs to be updated.
	SuggestedRemedy Add text to the draft to add the reference or bibliography item and add a hot link to the entry.
	Response Response Status C ACCEPT.

C/ 33 SC 33.1.4.1 P 23 L 8 # 381 C/ 33 SC Ρ L # 384 Thompson, Geoff GraCaSI S.A. Thompson, Geoff GraCaSI S.A. Comment Type ER Comment Status A **F**ditorial Comment Type ER Comment Status A Editorial Lines 8 thru 9, gauge is misspelled in the new text in two places. Draft has both "Auto class" and "Autoclass" SuggestedRemedy SuggestedRemedy REPLACE "guage" (sic) WITH "gauge", 2 places Pick one and use it consistently. Response Status C Response Response Status C Response ACCEPT IN PRINCIPLE. ACCEPT IN PRINCIPLE. OBE by comment # 167 OBE by comment # 142 ΕZ ΕZ C/ 33 SC 33.2.2 P 25 L 19 # 382 C/ 33 SC 33.2.3 P 33 L 19 # 385 GraCaSI S.A. Thompson, Geoff GraCaSI S.A. Thompson, Geoff Comment Type ER Comment Status A Editorial Comment Type **T** Comment Status A PSE Types The title of this sub-clause is "Midspan PSE types" is confusing as the term "Type" is It is not clear to me whether or not this change will end up already used to denote current class. Another term than "type" disenfranchising some currently compliant PSEs. It is unacceptable to do so should be used. This will be even more confusing as the number of "Types" and I see no need to do so. proliferates. SuggestedRemedy SuggestedRemedy Restore deleted text or prove that no existing compliant DTE/PSEs are disenfranchised. Change the word "types" in the heading and associated text from "types" to "variants". Response Response Status C Response Response Status C ACCEPT IN PRINCIPLE. ACCEPT. No changes to text are required. ΕZ Type 1 and Type 2 PSEs are allowed to choose either Alt-A configuration (MDI, MDI-X) C/ 33 SC 33.2.5.0a P 51 L 12 # 383 according to table 33-2a. Thompson, Geoff GraCaSI S.A. Comment Type ER Comment Status R Editorial Sub-clause numbering (i.e., the "a" suffix) does not conform to SA Style Manual. SuggestedRemedy Conform to Style Manual 11.1 Response Response Status C REJECT. See Style Manual 18.2.1.

C/ 33	SC 33.1.4	P 21 GraCaSI S.A	L 53	# 386
Thompson				
Comment It is no		Comment Status A	a PD when there	Power System is a mid-span PSE.
Suggested	dRemedy			
Chang	ge to "link section	" in line 53		
Response		Response Status C		
ACCE	PT.			
This is	s the definition fro	m 1.4:		
link se	ection: The portior	n of the link from the PSE to	the PD.	
C/ 33	SC 33.2.7.8	P 70	L 34	# 387
Thompson	n, Geoff	GraCaSI S.A		
Comment	Type TR	Comment Status A		PSE Power
Response ACCE	y how test resiste		n the case of Typ	be 3 and/or Type 4.
Possik	ole OBE by comm	nent # 6.		
C/ 01 Dove, Dan	SC 1.5 niel	P 18 Dove Networ	L 21 king Solut	# 389
<i>Comment</i> Missin	<i>Type</i> TR ng Abbreviations	Comment Status A		Editorial
pair se	"Dual Signature I et, to the PSE.Sin	PD - A Powered Device that gle Signature PD - A Power th simultaneously to the PS	ed Device that p	
Response		Response Status C		
ACCE	PT IN PRINCIPL	Ε.		
OBE b	by comment # 20	5.		
				T/technical E/editorial

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