C/ 145 SC 145.		P 179	L 40	# [1		C/ FM Anslow, Pe	SC	FM	P 1 Ciena	L 12	# 3	
The NO_POWER SuggestedRemedy Adopt changes in Proposed Response REJECT.	omment Type TR Comment Status D The NO_POWER state allows unwanted behavior by the PD. uggestedRemedy Adopt changes in abramson_01_0517.pdf roposed Response Response Status Z					Comment It is m Unless withou Suggestee Chang	<i>Type</i> y unders s this is t a PAR <i>IRemed</i> je the tit	wrong, f R revision ly tle back	Comment Status R g that the amendment title ha the title cannot be changed to	o "Power over Eth	nernet over 4 Pa	
Cl 30 SC 30.12 Anslow, Pete	2.2.1.18	he commente P 47 Ciena	L 4	# 2		REJE		guidano	ce in respect to the title of the	amendment are	as follows.	
#122. The Comment #12 "adopt darshan_03 This comment res 120, 121, 126, 128 However, the refer it rebut comment # This comment the The other subclaus or remote device. SuggestedRemedy	8_0317Rev007F.pdf plves comments: 55 5, 399" enced file makes no 57. refore repeats comm ses in this section m However, 30.12.2.1	With editorial , 56, 57, 63, 7 o changes to nent #57: take it clear w .18l and 30.12	license to clean 70, 71, 104, 105 30.12.2.1.18l or hether the attrib 2.3.1.18l have ic	a pointer to comn up. , 106, 117, 118, 1 30.12.3.1.18l, nc ute refers to the l lentical text.	l 19, or does local	Opera 'Title o scope this.'. [2] The Standa scope [3] Iter <https reads</https 	tions Ma f Docur as state e IEEE ards Bo as state n 2 Of t ://develo 'Is the T	anual <t ment. Th ed on th SA 2014 ard Ope ed on th he Rev0 opment. Fitle of th</t 	'Review of draft standards' of https://standards.ieee.org/dev he title on the draft document e most recently approved PA 4 Style manual has similar te: rations Manual, the title on th e most recently approved PA Com check list standards.ieee.org/myproject he submitted draft within the S ey have to be equal and we b	relop/policies/opr and submittal fo R, or action(s) sh kt that reads 'Per he draft documen R.'. t/Public/mytools/ Scope of the PAF	nan/sb_om.pdf> rm shall be within hall be taken to e 4.2.3.2 of the IE t shall be within sapprove/subchkle ??'.	n the ensure EE-SA the st.pdf>
Change "PSE" to ' <i>Response</i> ACCEPT.	local PSE" here and	•	E" to "remote PS	SE" in 30.12.3.1.1	181	Suggestea	Type hat IEEE IRemed je "201x	E ∃ Std 80	P1 Ciena Comment Status A 22.3bv-2017 has been approv 017" here and on page 12 line Response Status C		0	Editorial "2017".

Anslow, Pete Ciena	# 5	C/ 30 SC 30.12.2 Anslow, Pete	2.1.14 <i>P</i> 43 Ciena	L 15	# 8
Comment Type E Comment Status A The only text shown from 25.4.6 is the first paragraph. SuggestedRemedy Change the editing instruction to: "Change the first paragraph of 25	Editorial	Comment Type E Applying the change greater than Type 1" Same issue with the	Comment Status A s shown results in text that rea (double "or").	ads: "and whether	<i>Editorial</i> it is Type 1 or or
Response Response Status C ACCEPT.		SuggestedRemedy Change "or greater t Response	han Type 1" to "greater than T <i>Response Status</i> C	Гуре 1" in two plac	ces.
CI 30 SC 30.9.1.1.10 P 37 L 50 Anslow, Pete Ciena Comment Type E Comment Status A	# 6 Management	ACCEPT. C/ 33 SC 33.1.1	P 63	L 17	# 9
If subclause 30.9.1.1.10 is deleted, then the row for aPSEShortCou to be deleted. SuggestedRemedy Add instructions under 30.2.5 to delete the row for aPSEShortCoun Response Response Status C		changed or the entire before the subclause	Ciena Comment Status A placement of editing instruction e subclause is being inserted, e title, otherwise the editing ins a 1 and 33.2.1, but incorrect fo	then the editing in struction comes af	nstruction comes fter the subclause title.
ACCEPT.		SuggestedRemedy			
ACCEPT. C/ 30 SC 30.12.3.1.17 P 54 L 47 Anslow, Pete Ciena Comment Type E Comment Status A	# [7	,	nt of the editing instructions th Response Status C	nroughout the draft	

Cl 33 Anslow, Pe	SC 33.2.1	P 63 Ciena	L 34	# 11	CI 33 Anslow, Pe	SC 33.4 ete	P 64 Ciena	L 14	# 15
Comment	Туре Е	Comment Status A ence" should be "Change the I	ast paragraph"	Editorial	Comment	Туре Е	Comment Status A says: "Change 33.4 and	its subclauses as fo	<i>Editorial</i> llows:", but not all of the
Suggested	Remedy	" to "last paragraph"			subcla S <i>uggested</i>	auses are prese dRemedy	nt and most of them alrea	dy have their own eo	
Response ACCE	PT.	Response Status C				n editing instruc	struction to "Change 33.4 tion immediately after the Response Status C		nge 33.4.6 as follows:"
Cl 33	SC 33.2.2	P 63	L 41	# 12	ACCE	PT.			
Anslow, Pe		Ciena			CI 33	SC 33.4.3	P 64	L 28	# 16
Comment	51	Comment Status A		Editorial	Anslow, P	ete	Ciena		
33.2.2	contains more	text than is shown here.			Comment	Туре Е	Comment Status A		Editorial
0	-	struction to: "Change the first p	paragraph of 33.2	2 as follows:"	"assoc	ciated text" is to	3-15, Equation 33-16, and be deleted. Also, there is hich conflicts with the first.	a second editing in	
Response		Response Status C			Suggested				
ACCE	PT.				00		struction: "Delete Equatio	n 33-15. Equation 3	3-16. and the
<i>CI</i> 33 Anslow, Pe	SC 33.2.2	P 63 Ciena	L 49	# 13	assoc Show	iated text."	.4.3 with Equation 33-15,		
Comment	Type E	Comment Status A		Editorial	Response	•	Response Status C		
The in:		ains 3 references to Figure 33 is incorrect.	-9. This figure is	the "PSE state	ACCE				
Suggested	Remedy				CI 33	SC 33.4.4	P 65	L 28	# 17
Chang	e "Figure 33-9"	to "Figure 33-7" in 3 places.			Anslow, Po	ete	Ciena		
Response ACCE	PT.	Response Status C			Comment Only t	51	Comment Status A oh of 33.4.4 is shown		Editorial
<i>Cl</i> 33 Anslow, Pe	SC 33.2.2	<i>P</i> 64 Ciena	L 4	# 14	Suggested Chang		struction to: "Change the f	irst paragraph of 33	.4.4 as follows:
Comment	Туре Е	Comment Status A re 33-5" should be "in the title	of Figure 33-5"	Editorial	Response ACCE		Response Status C		
Suggested Chang	<i>Remedy</i> e "caption" to "t	title"	-						
Response ACCE	PT.	Response Status C							
TYPE· TR/	technical requir	ed ER/editorial required GR/	neneral required	T/technical E/editorial G/c	neneral		Co	omment ID 17	Page 3 of 80

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 U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

	IEEE	P802.3bt D2	.4 4-Pair PoE 4th Work	ing Group recirculation	on ballot comments		
C/ 33 SC 33.4.4 Anslow, Pete	P 65 Ciena	L 33	# [18	C/ 33 SC 33.4. Anslow, Pete	6 <i>P</i> 66 Ciena	L 37	# 21
SuggestedRemedy	Comment Status A the first paragraph of 33.4.4 is	C C		2.5GBASE-T, 5GB	Comment Status A frequency in MHz for a 10 Gb/s ASE-T, or 10GBASE-T. other values, fmax should just b		Editorial uation covers
Response ACCEPT.	n Table 33-19b while operatin ecified bandwidth." <i>Response Status</i> C	g at the specifie	a speea, when	Change "fmax is th	equency in MHz for a 10 Gb/s Pl ne frequency in MHz, 100 MHz fo r 10GBASE-T" to "fmax is 100 fo T".	or 2.5GBASE-T, 2	250 MHz for 5GBASE-
C/ 33 SC 33.4.6 Anslow, Pete	<i>P</i> 66 Ciena	L 32	# 19	Response ACCEPT.	Response Status C		
·	Comment Status A s in Clause 33 are incorrect.		Editorial	C/ 33 SC 33.4. Anslow, Pete	9 <i>P</i> 67 Ciena	L 3	# 22
SuggestedRemedy Change the equation i 33.4.6 to 33-17a 33.4.9.1.1 to 33-18 foll 33.4.9.1.2 to 33-19				Comment Type E There is no change SuggestedRemedy	Comment Status A e to 33.4.9		Editorial
Response ACCEPT.	Response Status C			Change the editing follows: <i>Response</i>	instruction to: "Change 33.4.9."	1 and 33.4.9.1.1 t	hrough 33.4.9.1.4 as
C/ 33 SC 33.4.6 Anslow, Pete	<i>P</i> 66 Ciena	L 32	# 20	ACCEPT.	Response Status C		
Comment Type E	Comment Status A 33-17a (shown as 0-0a) shoul	d be outside the	Editorial brackets.	C/ 40 SC 40.6 Anslow, Pete	P 71 Ciena	L 7	# <u>23</u>
SuggestedRemedy Change "10mVpp/f" to Change "1mVpp" to "1 add "mV peak-to-peak		ng bracket.		SuggestedRemedy	Comment Status A nge to the text in 40.6, remove th entences on lines 7 and 9.	he two sentences	
Response ACCEPT.	Response Status C			Response ACCEPT.	Response Status C		

SC 79.3.2.6a C/ 40 SC 40.6.1.1 P71 L 14 # 24 C/ 79 P 80 L 23 # 28 Anslow, Pete Ciena Anslow, Pete Ciena Comment Type Е Comment Status A **F**ditorial Comment Type Е Comment Status A **F**ditorial There is no editing instruction associated with the change to 40.6.1.1 "Insert 79.3.2.6a through 79.3.2.6f" should be "Insert 79.3.2.6a through 79.3.2.6g" SuggestedRemedy SuggestedRemedy Add an editing instruction: "Change the first paragraph of 40.6.1.1 as follows:" Change "79.3.2.6f" to "79.3.2.6g" in the editing instruction. Response Response Status C Response Response Status C ACCEPT. ACCEPT. SC 79.3 CI 79 SC 145 P75 L 19 # 25 C/ 145 P 146 L 8 # 29 Anslow. Pete Ciena Anslow. Pete Ciena Comment Type E Comment Status A Editorial Comment Type Е Comment Status R **F**ditorial "TBD 8-255" should be "TBD 8 to 255" Several table in Clause 145 have blank cells in the min or max columns, which should contain an em-dash SuggestedRemedy SuggestedRemedy Change "TBD 8-255" to "TBD 8 to 255" Make sure all tables have a em-dash in currently blank min or max columns. Response Response Status C In particular, Tables 145-7, 145-8, 145-9, 145-10, 145-14, 145-16, 145-27, 145-28, 145-30, 145-31, 145-32 ACCEPT. Response Response Status C C/ 79 SC 79.3.2 P 75 # 26 L 31 REJECT. Anslow, Pete Ciena The lack of em-dashes is intentional. The em-dash would convey that there is no relayent Comment Type Ε Comment Status A Editoiral information, while the lack of the em-dash conveys that there is no specific number. The editing instruction: "Change 79.3.2 as follows:" is there twice. C/ 145 SC 145.2.8.5.1 P 162 L 31 # 30 SuggestedRemedy Anslow, Pete Ciena Delete the second instance. Comment Type Е Comment Status A Editorial Response Response Status C Four trailing zeros in Equation 145-15. ACCEPT. Four trailing zeros in Equation 145-18. C/ 79 SC 79.3.2.2 P 76 L 44 # 27 SuggestedRemedy Anslow. Pete Ciena Delete them Comment Type Е Comment Status A Editorial Response Response Status C The second and third sentence in strikethrough font (starting "Type 3 or Type 4 PSEs") is ACCEPT. not part of the base standard. SuggestedRemedy Remove the two sentences starting "Type 3 or Type 4 PSEs" on lines 44 through 47. Response Response Status C ACCEPT.

IEEE P802.3bt D2.4 4-Pair PoE 4th Working Group recirculation ballot 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 U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

C/ 145 SC 145.1.3	P 102	L 22	# 31	C/ 145	SC 145	.3.8	P 193	L 20	# 32
Beia, Christian	ST Microelec	ITOTICS		Beia, Chris	suan		ST Microelect	IONICS	
Comment Type T	Comment Status A		Pres: Stover1	Comment	Туре Т		Comment Status A		PD Power
negative conductor of t VPSE is voltage at the negative conductor of t They are not the same	PSE PI measured between	any positive con		events PSE a Assigr	s produced l is shown in ned Class h ile 145-28 lt	by the Table 14 as values	result of the PD requested 5-11. s from 1 to 8 m 7 the assigned Class ca		number of class
SuggestedRemedy				Chanc	,				
Replace the called out	text with:				e-signature	PD, Clas	s 0 to 6"		
"VPD is voltage at the any negative conductor	PD PI measured between an r of the same pairset.	y positive condu	ictor of a pairset and		e-signature on line 20 ar				
VPSE is voltage at the any negative conductor	PSE PI measured between a of the same pairset."	any positive con	ductor of a pairset and	Response ACCE		F	Response Status C		
Response	Response Status C			C/ 145	SC 145	3.8	P 194	L 6	# 33
ACCEPT IN PRINCIPL	E.			Beia, Chris	-	5.0	ST Microelect	-	# 33
OBE by 158				Comment			Comment Status A		PD Power
### ### ###							s from 1 to 8 le assigned Class can be (D	
Comment 158 has the ACCEPT.	following response:			Suggested Recoll	<i>Remedy</i> ocate Class	ses from	1 to 8		
adopt stover_01_0517.	pdf			Response ACCE	PT IN PRIN		Response Status C		
				Remo	ve class 0 a	ind move	class 3 to sequential orde	er.	

<i>Cl</i> 145 <i>SC</i> 145.3.8 Beia, Christian	P 194 ST Microelectro	L 31	# 34	<i>Cl</i> 145 Beia, Christia	SC 145.3.8	P 194 ST Microele	L 37	# 35
Dela, Chinstian		TIICS		Dela, Chinstia	111		ectronics	
Comment Type T	Comment Status A		PD Power	Comment Ty	pe T	Comment Status A		PD Power
Assigned Class has value In Table 145-28 Item 13 tl	s from 1 to 8 ne assigned Class can't be 0)				llues from 1 to 8 4 the assigned Class can b	be 0	
SuggestedRemedy				SuggestedRe	emedy			
To:	DI_POWER states for single DI_POWER states per assig	0		To:	·	uring MDI_POWER states uring MDI_POWER states	Ū	
and Change: "Class 0 to 4" To: "Class 1 to 4"				and Cha "Class 0 To:	to 4"			
Response	Response Status C			"Class 1	to 4"			
ACCEPT IN PRINCIPLE.				Response ACCEPT	IN PRINCIPI	Response Status C _E.		
	ke this dependent upon assig	gned class.		No reaso	on to make this	s dependent on assigned c	lass.	
Change: "Class 0 to 4" To: "Class 1 to 4"				Change: "Class 0 To: "Class 1	to 4"			
				To:				

Cl 145 SC 145.2.7 P 150 L 21 # 36 Beia, Christian ST Microelectronics	C/ 145 SC 145.2.7 P 150 L 37 # 37 Beia, Christian ST Microelectronics ST Microelectronics 37
Comment Type T Comment Status A PSE Power PDs assigned Class is not defined Table 145-24 refers to PDs requested Class	Comment Type T Comment Status A PSE Power PDs assigned Class is not defined Table 145-25 refers to PDs requested Class Figure 145-25 refers to PDs requested Class Figure 145-25 refers to PDs requested Class
SuggestedRemedy Change "PClass_PD is the maximum power at the PD PI per the PDs assigned Class, as defined in Table 145-24)" To: "PClass_PD is the maximum power at the PD PI per the PDs requested Class, as defined in Table 145-24)"	SuggestedRemedy Change: "PClass_PD-2P is the maximum power at the PD PI for a pairset per the PDs assigned Class, as defined in Table 145-25" To: "PClass_PD-2P is the maximum power at the PD PI for a pairset per the PDs requested Class, as defined in Table 145-25"
Response Response Status C ACCEPT IN PRINCIPLE. Change to "Pclass_PD is the maximum power at the PD PI per the assigned Class." Change last column header in Tables 145-24 and 145-25 to "Requested Power (W)". Move Pclass_PD and Pclass_PD-2P definitions to Table 145-28. Where it will be by assigned class. Add "See 145.3.6" in additional information column. Check all references to Tables 145-24 and 145-25. This comment resolves comment: 37	Response Response Status C ACCEPT IN PRINCIPLE. OBE by 36 ### ### Comment 36 has the following response: ACCEPT IN PRINCIPLE. Change to "Pclass_PD is the maximum power at the PD PI per the assigned Class." Change last column header in Tables 145-24 and 145-25 to "Requested Power (W)". Move Pclass_PD and Pclass_PD-2P definitions to Table 145-28. Where it will be by assigned class. Add "See 145.3.6" in additional information column.

C/ 145 SC 145.7.3.3	P 256	L 6	# 38	C/ 145	SC 145.3.	9	P 203	L 10	# 40
Beia, Christian	ST Microelec	tronics		Beia, Christ	tian		ST Microelec	tronics	
Comment Type T	Comment Status A		PICS	Comment 7	Гуре Т	Comment	Status A		PD MP
	definition of PDs assigned (Class, but refers	to PDs request Class			values from 1 to n 1 the assigned)	
SuggestedRemedy				Suggested	Remedv	5			
Change: "Pair-to-pair unbalance signature PDs assigne Class 5 or higher" To:	t C			Change "Class To: "Class	e: 0 to 4"				
"Pair-to-pair unbalance				Response		Response S	Status C		
signature PDs required Class 5 or higher"				ACCEF	PT.				
Response	Response Status C			C/ 145A	SC 145A.	3.2	P 267	L 26	# 41
ACCEPT IN PRINCIPL	E.			Bennett, Ke	en		Sifos Techno	logies, In	
Why is this dependent Change: "Pair-to-pair unbalance signature PDs assigner Class 5 or higher" To: "Pair-to-pair unbalance signature PDs"	L. L	145.3.8.10 is no	yt.	measu Suggested See be Response	dresses the rement in An	nex 145A.3.2 was 17.pdf <i>Response</i> S	.3, #130,#151. s evaluated.	The Effective res	Pres: Bennet
Cl 145 SC 145.3.6.1 Beia, Christian	P 190 ST Microelec	L 42 stronics	# 39			0517.pdf pages 1			
Comment Type T	Comment Status A		PD Class	Editor t	to replace line	es 30-34 on page	e 10 of the pdf v	with:	
51	Pclass_PD-2P then the rele	vant note should			od to determ ed in 145A.3		E_max and RF	PSE_min conform	n to Equation (145-15)
SuggestedRemedy									
Change:	signed to a lower Class thar	the DD request	od Class, which results	Editor g	given license	to rewrite senten	ice on page 10	line 36 to remov	e the use of 'should'.
in a lower value of Pcla To:				This co	omment resol	ves comment: 83	3		
in a lower value of Pcla									
Response	Response Status C								
ACCEPT.									

<i>Cl</i> 145 SC 145.2.5.7 Darshan, Yair	P 132 Mirosemi	L 16	# 42	C/ 145 Darshan, Y	SC 145.2.5.7 ′air	P 138 Mirosemi	L 17	# 44
"variable <operator>X" e.ç SuggestedRemedy Adopt request in the com</operator>	Response Status C			recent inconsi (not 4) dual-sig Suggested Adopt o	#253 D2.3 PSE developments ir istent with the no class events. Al gnature Class S <i>Remedy</i> darshan_11_05 ⁴ ready, keep in To	17.pdf if ready. ODO.	Particularly, state erefore pd_cls_4	e CLASS_4PID4 is pid are known after 3
<i>Cl</i> 145 SC 145.2.5.7 Darshan, Yair	P 132 Mirosemi	L 33	# 43	REJEC		Response Status Z	er.	
yseboodt_0117.pdf page (Option 1 and 2) and upd Response: Add TODO (Y available power = 4. SuggestedRemedy Adopt darshan_10_0517. Response ACCEPT IN PRINCIPLE.	Response Status C	bles to allow 2 f	ingers and 3 fingers PSE flexibility.	145-11 the tab Suggested Adopt o Response	<i>Type</i> TR are significant di to the calculate le is 30W and th	Response Status C	2. See for examp	•
Adopt darshan_10_0517	_tinal.pdf				/seboodt_08_05			

C/ 145 SC 145.2.7 Darshan, Yair	P 151 Mirosemi	L 45	# 46	Cl 145 SC 145.2 Darshan, Yair	.8 <i>P</i> 156 Mirosemi	L 27	# 48
on the value of the PSEA	Comment Status A ssful DLL classification, the AllocatedPowerValue variablue values correspond with th 45-24 and 145.5.3.3.5.", mis	e, as defined in he maximum po	Table 145-12. The wer a PD may draw,		Comment Status D D2.3 To verify after all unbaland ILIM-2P are sync with Table 14 /-1% accuracy.		
of the PSEAllocatedPow PSEAllocatedPowerValu 145-12. The PSEAllocate	classification, the assigned (erValue variable when single e_alt(X) when dual-signatur edPowerValue and PSEAllo r a PD may draw, PClass_P	e-signature PD i e PD is supporte cated-PowerVal	s supported and ed, as defined in Table ue values correspond	Adopt darshan_07_ Proposed Response REJECT.	0517.pdf if ready. If not ready, <i>Response Status</i> Z WITHDRAWN by the commen		
see Table 145-24 and 14 Response				C/ 145 SC 145.2 Darshan, Yair	.8.5 <i>P</i> 161 Mirosemi	L 44	# 49
of the PSEAllocatedPow Table 145-12. The PSEA correspond with the max	classification, the assigned (erValue or PSEAllocatedPo MocatedPowerValue or PSE	werValue_alt(X) AllocatedPower	variable, as defined in Value_alt(X) values	SuggestedRemedy	-2P_unb max value is in sync v 2_0517.pdf if ready. If not ready <i>Response Status</i> Z	, , , , , , , , , , , , , , , , , , ,	
C/ 145 SC 145.2.8 Darshan, Yair	P 156 Mirosemi	L 25	# [47	This comment was	WITHDRAWN by the commen	ter.	
darshan_13_0517pdf. SuggestedRemedy	Comment Status D alance in Table 145-16 can l	·					
Proposed Response	Response Status Z						

Unbalance

C/ 145	SC 145.2.8.5.1	P 162	L 15	# 50
Darshan, '	Yair	Mirosemi		

Comment Type T Comment Status A

There is an issue raised by Fred regarding the use of the word "ensures" in two locations: 1. The existing text, p162 L15

"The PSE PI pair-to-pair effective resistance unbalance determined by RPSE max and RPSE min ensures that along with any other parts of the system, i.e. channel (cables and connectors) and the PD, the pairset with the highest current including unbalance does not exceed ICon-2P-unb as defined in Table 145-16 during normal operating conditions."

2. The existing text. p201 L39.

"RPD min, RPD max ensures that along with any other parts of the system, i.e., channel (cables and connectors) and the PSE, the maximum pair current including unbalance does not exceed ICon-2P-unb as defined in Table 145-16 during normal operating conditions. See Annex 145A."

Based on the information I got from David Law:

There is an issue based on ensure' being a possible explicit or implicit guarantee. This is addressed in subclause 10.2.5 "Absolute" verbiage' of the IEEE-SA Standards Style Manual

<https://development.standards.ieee.org/myproject/Public/mytools/draft/styleman.pdf> which reads as follows.

10.2.5 "Absolute" verbiage

Avoid making guarantees if there is a possibility of unforeseen situations or circumstances altering an outcome. Review the text for any explicit or implicit guarantees made within the document, especially those that are safety-related.

For example, words such as "ensure," "guarantee," "always," etc., should be modified if they are inaccurate. Substitutions might include "maximize" or "minimize" or "often."

Now Analyzing this info:

Base on the above:

1. This is not a safety requirements ===> no issues to use "ensure".

2. The statement that use "ensures" is accurate under the conditions of the statement itself if they are defined accurately. To achieve the accuracy, see proposed changes.

SuggestedRemedv

Option 1:

1. Modify the existing text in p162 L15 to:

"The PSE PI pair-to-pair effective resistance unbalance determined by RPSE max and RPSE min ensures that along with any other parts of the system, i.e., channel (cables and connectors that meets Rch unb min and Rch unb max requirements per Table 145-17) and the PD (that meet 145.3.8.10 requirements), the pairset with the highest current including unbalance does not exceed ICon-2P-unb as defined in Table 145-16 during normal operating conditions."

2. Modify the existing text in p201 L39:

"The PD PI pair-to-pair effective resistance unbalance determined by RPD min and RPD max ensures that along with any other parts of the system, i.e., channel (cables and

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 U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

connectors that meet Rch unb min and Rch unb max requirements per Table 145-17) and the PSE (that meets 145.2.8.5.1 requirements), the maximum pair current including unbalance does not exceed ICon-2P-unb as defined in Table 145-16 during normal operating conditions. See Annex 145A."

Option 2:

1. Modify the existing text in p162 L15:

"The PSE PI pair-to-pair effective resistance unbalance determined by RPSE_max and RPSE min, in conjunction with other parts of the system, i.e., channel (cables and connectors that meets Rch unb min and Rch unb max requirements per Table 145-17) and the PD (that meets 145.3.8.10 requirements), are intended to limit the current on the pairset with the highest current including unbalance, does not exceed ICon-2P-unb as defined in Table 145-16 during normal operating conditions." 2. Modify the existing text in p201 L39:

"The PD PI pair-to-pair effective resistance unbalance determined by RPD min, and RPD max in conjunction with any other parts of the system, i.e., channel (cables and connectors that meet Rch_unb_min and Rch_unb_max requirements per Table 145-17) and the PSE (that meets 145.2.8.5.1 requirements), are intended to limit the current on pairset with the highest current including unbalance, does not exceed ICon-2P-unb as defined in Table 145-16 during normal operating conditions. See Annex 145A."

Response Response Status C

ACCEPT IN PRINCIPLE.

OBE by 106

###

Comment 106 has the following response: ACCEPT.

Suggested remedy:

change to: The PSE PI pair-to-pair effective resistance unbalance determined by RPSE_max and RPSE_min, along with any other parts of the system, i.e., channel (cables and connectors) and the PD, bounds the current such that the pairset with the highest current including unbalance does not exceed ICon-2P-unb as defined in Table 145-16 during normal operating conditions.

Cl 145 SC 145.2.8 .9 Darshan, Yair	5.1 <i>P</i> 162 Mirosemi	L 48	# 51	Cl 145 SC 145.2.8 Darshan, Yair	.5.1 <i>P</i> 163 Mirosemi	L 38	# 53
Comment Type E	Comment Status R		Pres: Darshan9	Comment Type ER	Comment Status A or Rchunb_min, Rchunb_max	Paoir PD min	Editorial
"A PSE shall not sour **load** as shown in F	ce more than ICon-2P-unb mir igure of Rload_min and Rload_max			Equation 145-16 and darshan_010317Rev	Equation 145-17 were not imp		i anu kpail_rD_max m
	is not clear that the "load" is t			SuggestedRemedy			
SuggestedRemedy				1.Change Equation 7 To: Rload_min=Rpd_	I45-16 from: Rload_min=Pair_I min+Rch_unb_min	PD_min+Rchun	b_min:
connected to the **PS	E shall not source more than le E load** as shown in Figure 1 ed in Equation (145-16) and E	45-22, using val	lues of Rload_min and	2. Change Equation To: Rload_max=Rpd_	I45-17 from: Rload_max=Rair_ _max+Rch_unb_max:	PD_max+Rchu	nb_max:
Response	Response Status C	qualion (145-17)).	Response	Response Status W		
REJECT.	Response Status			ACCEPT.			
				C/ 145 SC 145.2.8	.5.1 <i>P</i> 164	L 4	# 54
Out of scope.				Darshan, Yair	Mirosemi		
Cl 145 SC 145.2.8. Darshan, Yair	5.1 <i>P</i> 163 Mirosemi	L 6	# 52	Comment Type T Update Figure 145-22	Comment Status A 2 per darshan_09_0517.pdf		Pres: Darshan9
Comment Type TR	Comment Status A		Pres: Darshan8	SuggestedRemedy			
	.3 Table 145-17 contain resist			Adopt darshan_09_0	517.pdf		
with accuracy of +/-5n	ay need to be rounded to 1% in https://www.ay.org/ay.ay.org/app.	n order that icor	1-2P_und will be kept	Response	Response Status C		
SuggestedRemedy				ACCEPT IN PRINCIP	PLE.		
•• •	17.pdf if ready. If not ready, a	ddto TO DO list.		OBE by 55			
Response ACCEPT IN PRINCIP	Response Status C LE.						
Adopt darshan_08_05	17.pdf			Comment 55 has the ACCEPT IN PRINCIF			

<i>Cl</i> 145 <i>SC</i> 145.2.8.5.1 Darshan, Yair	P 164 Mirosemi	L 20	# 55	<i>Cl</i> 145 Darshan, Y	SC 145.3 . ′air	2 <i>P</i> 172 Mirosemi	L 16	# 56
Comment Type T C TODO#370 D2.3. Comment: Figure 145-22 is replace the abbreviation wi unbalance". Also remove t replace by remedy text. Respose: check correct us SuggestedRemedy Adopt darshan_09_0517.p	th "PSE PI unbalance sp the two occurences of this age of these terms and p	ecification and s s abbreviation in	system resistance Annex 145A and	Mode." if it is w mode E Suggested Change power s	D shall be im the intent is vorking on 2- 3 etc. <i>Remedy</i> e the text from supply on eit	Comment Status A plemented to be insensitive to the PD shall be implemented pairs or 4-pairs i.e. on mode A m: "The PD shall be implemented her Mode."	to be insensitive to and mode B and nted to be insensiti	o the polarity regardless not just on mode A or we to the polarity of the
Response R ACCEPT IN PRINCIPLE.	esponse Status C			Response	A and Mode I	Response Status W		
adopt darshan_09_0517.pc 1. Do not implement title c 2. Remove "channel" from 3. Editorial license to clear This comment resolves cor	hange for Figure 145-22. Figure 145-22. n up text.	ges:		ACCEF Sugges Change	# ### ent 232 has t >T. sted remedy: e:	he following response: plemented to be insensitive to	o the polarity of the	e power supply on either
						sensitive to the polarity of the ower supply on the other mode		each mode regardless o

	27 D470	1 22	# 57	C/ 145	CC 11E 2 0 1		105	1 46	# 60
C/ 145 SC 145.3. : Darshan, Yair	3.7 <i>P</i> 179 Mirosemi	L 23	# 57	Darshan, Yair	SC 145.3.8.2	P Miros	1 95 semi	L 46	# 60
Comment Type TR	Comment Status D		PD Class	Comment Typ	e TR	Comment Status	A		Pres: Darshar
that it is not actual D class signature or w Cahnge present_cla A=FALSE and B=TF in the state just pres	NT6 state the present_class DO_CLASS_EVENT. I unders e may not have it so in order iss_sig_A and present_class. RUE or A=FALSE and (B=FA sent_class_sig_A <==FALSE B can be FALSE or TRUE.	tand that during th to be flexible we ca _sig_B to all possib LSE or TRUE) white	is time we may have an do the following: ble combinations i.e ch results with keeping	PClass_P only for si SuggestedRe Change fr operating	D or PClass_F ngle-signature <i>medy</i> om: "PDs may power below F	Delete "or Pclass also adjust their m Class_PD or PCla	oclass (see _PD-2P" naximum re ss_PD-2P	e 145.3.6.2)." equired	power below . The Autoclass applies oclass (see 145.3.6.2)."
SuggestedRemedy				To "PDs r	nay also adjus power below F	t their maximum re Class_PD by using	quired a Autoclass	s (see 145.3 f	6 2) "
Remove "present_cl	lass_sig_B<==TRUE" fron the	e state.		Response		Response Status	-		
Proposed Response	Response Status Z			•	IN PRINCIPLE	•	U		
REJECT.				Strike "or	Pclass pd-2p	on page 195, line	46.		
This comment was \	WITHDRAWN by the comme	nter.							
C/ 145 SC 145.3.	3.7 <i>P</i> 179	L 44	# 58						
C/ 145 SC 145.3.	5.1 115	- • •							
	Mirosemi								
Darshan, Yair Comment Type TR			PD SD						
Darshan, Yair <i>Comment Type</i> TR Put paranthesis arou <i>SuggestedRemedy</i> Change from "pd_po	Mirosemi Comment Status A	o power_update st	PD SD ate.						
Darshan, Yair <i>Comment Type</i> TR Put paranthesis arou <i>SuggestedRemedy</i> Change from "pd_po	Mirosemi <i>Comment Status</i> A und comparison in powered to ower_update * pd_dll_enable	o power_update st	PD SD ate.						
Darshan, Yair <i>Comment Type</i> TR Put paranthesis arou <i>SuggestedRemedy</i> Change from "pd_por To "pd_power_upda <i>Response</i> ACCEPT. <i>Cl</i> 145 <i>SC</i> 145.3 .4	Mirosemi <i>Comment Status</i> A und comparison in powered to ower_update * pd_dll_enabled te * pd_dll_enabled * (VPD = <i>Response Status</i> W	o power_update st	PD SD ate.						
Darshan, Yair Comment Type TR Put paranthesis arou SuggestedRemedy Change from "pd_po To "pd_power_upda Response ACCEPT. CI 145 SC 145.3.4 Darshan, Yair Comment Type ER	Mirosemi <i>Comment Status</i> A und comparison in powered to ower_update * pd_dll_enabled te * pd_dll_enabled * (VPD = <i>Response Status</i> W 8 P 193 Mirosemi <i>Comment Status</i> D n 8 "Inrush to PD current con	b power_update sta d * VPD = VOff_PE VOff_PD)" <i>L</i> 40	PD SD ate. D" # <u>59</u> Editorial						
Darshan, Yair Comment Type TR Put paranthesis arou SuggestedRemedy Change from "pd_po To "pd_power_upda Response ACCEPT. C/ 145 SC 145.3.4 Darshan, Yair Comment Type ER In Table 145-28 Item clear. What is "PD control	Mirosemi <i>Comment Status</i> A und comparison in powered to ower_update * pd_dll_enabled te * pd_dll_enabled * (VPD = <i>Response Status</i> W 8 P 193 Mirosemi <i>Comment Status</i> D n 8 "Inrush to PD current con	b power_update sta d * VPD = VOff_PE VOff_PD)" <i>L</i> 40	PD SD ate. D" # <u>59</u> Editorial						
Darshan, Yair Comment Type TR Put paranthesis arou SuggestedRemedy Change from "pd_po To "pd_power_upda Response ACCEPT. CI 145 SC 145.3.4 Darshan, Yair Comment Type ER In Table 145-28 Iten clear. What is "PD control SuggestedRemedy	Mirosemi <i>Comment Status</i> A und comparison in powered to ower_update * pd_dll_enabled te * pd_dll_enabled * (VPD = <i>Response Status</i> W 8 P 193 Mirosemi <i>Comment Status</i> D n 8 "Inrush to PD current con	b power_update sta d * VPD = VOff_PE VOff_PD)" <i>L</i> 40	PD SD ate. D" # <u>59</u> Editorial						
Darshan, Yair Comment Type TR Put paranthesis arou SuggestedRemedy Change from "pd_po To "pd_power_upda Response ACCEPT. CI 145 SC 145.3.4 Darshan, Yair Comment Type ER In Table 145-28 Iten clear. What is "PD control SuggestedRemedy	Mirosemi <i>Comment Status</i> A und comparison in powered to ower_update * pd_dll_enabled tte * pd_dll_enabled * (VPD = <i>Response Status</i> W 8 <i>P</i> 193 Mirosemi <i>Comment Status</i> D n 8 "Inrush to PD current con delay"	b power_update sta d * VPD = VOff_PE VOff_PD)" <i>L</i> 40	PD SD ate. D" # <u>59</u> 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 U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

C/ 145 SC 145.3.8.6 P 198 L 25 # 61 Darshan, Yair Mirosemi	C/ 145 SC 145.3.8.10 P 200 L 34 # 62 Darshan, Yair Mirosemi					
Dearshan, Yair Mirosemi Comment Type TR Comment Status D Pres: ???? (TODO #209, #91 145.3.8.6 Page 188 lines 20, 23) (Yair, Fred): Fix PSE section so that PSEs that lower current limit based on class, increase Tlim (or something) in order to deliver needed charge. Pres: ???? Comment #209 D2.3 This comment closes a TODO related to D2.2 #87 and #96 for Ken and Fred. System operation is dependent on the assigned class. ILIM exists to provide PSE current to a PD when the PSE voltage increases (see See	Darshan, Yair Mirosemi Comment Type TR Comment Status A Editorial In the text "See Figure 145A-1. Effective resistances of RPD_min and RPD_max include the effects of PD pair to pair voltage difference and the PD PI resistive elements. See definition and measurements in Annex 145A." there are wrong Annex number and wrong Figure number. SuggestedRemedy Change from "See Figure 145A-1. Effective resistances of RPD_min and RPD_max include the					
schindler_1_0915). A Type-4 PSEs provide higher power so they can charge the PD bulk capacitor faster (TLIM is 6ms for Type 4 vs 50ms for Type 2). However, if ILIM-2P is lowered when driving a PD with class < 5 then TLIM needs to increase to ensure the capacitance is charged. Comment #91 D2.3 The sentence starting with "A single-signature PD includes CPort" leads into a listing of PD types and Cport values that "Intrinsically meet the requirements in this subclause". This	 effects of PD pair to pair voltage difference and the PD PI resistive elements. See definition and measurements in Annex 145A." To "See Figure 145A-4. Effective resistances of RPD_min and RPD_max include the effects of PD pair to pair voltage difference and the PD PI resistive elements. See definition and measurements in Annex 145A.4." Response Response Status W ACCEPT. 					
is no longer true, because PDs can be demoted to an assigned class with different TLim and ILim characteristics.	C/ 145 SC 145.3.8.10 P 200 L 39 # 63					
SuggestedRemedy See Fred's suggested remedy. If not ready, keep it in TODO Proposed Response Response Status PROPOSED REJECT.	Comment Type TR Comment Status R PD Unbal In the text "PDs that meet Equation (145-26) intrinsically meet unbalance requirements.", it is not clear which unbalance requirements. It should be "PE that meet Equation (145-26) intrinsically meet all PD unbalance requirements."					
This comment was WITHDRAWN by the commenter.	SuggestedRemedy Change from "PDs that meet Equation (145-26) intrinsically meet unbalance requirements." To "PDs that meet Equation (145-26) intrinsically meet all PD unbalance requirements."					
	Response Response Status W REJECT.					
	Out of Scope for an editorial change. The existing text is clear.					

C/ 145 SC 145.3.8		L 4	# 64	C/ 145 SC 145.3.8.10 P 201 L 12 # 66
Darshan, Yair Comment Type ER	Mirosemi Comment Status A		Editoria	Darshan, Yair Mirosemi I Comment Type T Comment Status A PD Unbalance
In the text "Figure 14 effective resistances SuggestedRemedy Change from "Figure effective resistances To " In the text "Figur effective resistances Response ACCEPT. C/ 145 SC 145.3.8 Darshan, Yair Comment Type TR In the text "Single-sig min and 5 % duty cyc	5A-1 illustrates the relationship at", the figure number shold in 145A-1 illustrates the relations at" re 145A-2 illustrates the relation at" <i>Response Status</i> W 3.10 <i>P</i> 201 Mirosemi <i>Comment Status</i> D gnature PDs shall not exceed IPeak	be 145A-2 and r ship between RI nship between R <i>L</i> 8 Con-2P-unb for <-2P-unb, as def	_max and RPD_min not 145A-1. PD_max and RPD_min RPD_max and RPD_mir # [65 <i>Pres: Darshan</i> longer than TCUT-2P ined in Table 145-16 on	 TODO #321 D2.3 The response to this comment was: "ACCEPT IN PRINCIPLE. Add TODO (Yair, Lennart): Figure out how to deal with DS unbalance (Icon-2p) requirements. See Darshan_12 and this comment [#321 D2.3]." The response to this action item (Agreed by Lennart and Yair): Comment #321 from D2.3 has been resolved completely by the following adopted baselines: yseboodt_08_0317.pdf adopted per comment #320. It also addressing comment #321 D2.3 (145.3.8.10 text Icon_pd-2P=Pclass_PD-2P/Vpd) darshan_09_0317_final.pdf per comment 167 regarding Irms spec that changes 145.3.8.2 and 145.3.8.4 which also addresses some of the concerns that I had in darshan_12 per comment #164 D2.3 and was withdrawn by me with the agreement per this action item to check the integrity of the proposal in darshan_12 with comment #321 THAT WAS ALREADY ADRESSED BY COMMENT #320 D2.3. In fact Comment #321 D2.3
 IPeak-2P-unb is not Equation 145-12 b is not the maximum I designed to the maximum the fact that the PD c 	pairs.", there are few problem ot defined in Table 145-16. It is belongs to PSE section and set peak-2P_unb since it depends mum Ipeak-2P_unb (and also doesn't control the actual Ipeak bltage and more important, the	s defined by Equ the actual Ipea on PSE voltage to the maximum -2P-unb since it	ation 145-12. k-2P_unb current which e. PDs must be I Icon-2P_unb) due to doesn't have the	SuggestedRemedy No change to the spec is required. Response Response Status C ACCEPT.
minimum voltage whi As a result of the abo	ich will create the maximum po ove arguments we need to defi	ossible current. ne new PD para	meters name to Icon-	C/ 145 SC 145.3.8.10 P 201 L 13 # 67 Darshan, Yair Mirosemi
values that are a fund march for the comme	P_un i.e. Icon_PD-2P_unb and ction of PD parameters only (a: ent #320 from D2.3 (see ysebo erated the new Equation #145-	s we did per the bodt_08_0315_p	concept we adopt on beakunbalance.pdf	Comment TypeERComment StatusAEditorialIn the text "Dual-signature PDs shall not exceed ICon_PD-2P as defined in Equation (145- 28) for longer than TCUT-2P min and 5 % duty cycle, as defined in Table 145-16, and shall
SuggestedRemedy				not exceed Ipeak_PD-2P on any pair", missing reference to Equation 145-29.
Adopt darshan_04_0	517.pdf			SuggestedRemedy
Proposed Response REJECT.	Response Status Z			Change to "Dual-signature PDs shall not exceed ICon_PD-2P as defined in Equation (145- 28) for longer than TCUT-2P min and 5 % duty cycle, as defined in Table 145-16, and shall not exceed IPeak_PD-2P, as defined in Equaton (145-29), on any pair"
This comment was V	VITHDRAWN by the commenter	er.		Response Response Status W

ACCEPT.

C/ 145 Darshan, Ya	SC 145.4.1 air	P 204 Mirosemi	L 16	# 68	<i>Cl</i> 145 Darshan, Yair	SC 145.4.1	P 204 Mirosemi	L 18	# 70
Comment T	ype ER	Comment Status A		Pres: Peker1	Comment Typ	e TR	Comment Status R		Pres: Peker1
60950-1 not spe	1 and IEC 6236 cify similar IEC sistency, we sl	external conductors are spe 8-1.", standard specifies IE0 62368-1 subclause. hould add subclause of IEC6	C 60950-1 subcl		strength t electrical Custome electrical	ests:", there isolation. s may argue isolation requ	cal isolation shall withstand a is an ambiguity in current IE (and we have many such cas irrements but does not meet I	EE 802.3bt req ses) that a produ EEE802.3. Cus	uirements for uct meet UL/IEC stomers believes that
00	Arkadiy_01_051	I7.pdf					nts are more stringent than Ul as it allowed in IEC 60950-1		
Response	-	Response Status C			"NOTE 4	Components	providing a d.c. path in paral	lel with the insula	ation to be tested, such
•	T IN PRINCIP	,			should be	disconnecte		0	0 11
OBE by	/ 240				IEEE spe		ch allow to remove compone at IEEE802.3bt should have o B		
### ###	# ###				SuggestedRe				
Comme	ent 240 has the	following response:			00	adiy_01_051	7.pdf		
ACCEP	T IN PRINCIP	LE.			Response)	Response Status C		
adopt V	Valker_1_0517	_rev_4.pdf			, REJECT.		•		
C/ 145	SC 145.4.1	P 204	L 16	# 69	Out of sc	ope. Howeve	er, an 802.3 ad hoc has been	proposed to con	sider these issues.
Darshan, Ya	air	Mirosemi							
Comment T	ype ER	Comment Status A		Pres: Peker1					
60950-1 (which v view, de	1 and IEC 6236 will be withdraw	external conductors are spe- 8-1.", the 802.3bt requires to n by the end of 2018) and II n need to satisfy just one of th	meet both stand EC 62368-1. Fro	dards IEC60950-1 m a safety point of					
SuggestedF	Remedy								
Adopt A	Arkadiy_01_051	17.pdf							
Response ACCEP	T IN PRINCIP	Response Status C LE.							
OBE by	/ 240								
### ###	# ###								
	ent 240 has the T IN PRINCIP	following response: LE.							
adopt W	Valker_1_0517	_rev_4.pdf							
COMMENT		ed ER/editorial required GR spatched A/accepted R/reje ID				/unsatisfied		ent ID 70	Page 18 of 80 5/25/2017 8:56:

CI 145 SC 145.4.1 P 204 L 27 # 71	C/ 145 SC 145.4.1 P 204 L 27 # 72					
Darshan, Yair Mirosemi	Darshan, Yair Mirosemi					
Comment Type TR Comment Status R Pres: Peker1	Comment Type ER Comment Status A Pres: Peker					
IIEEE802.3bt has following compliance criteria for the electrical stength test: "There shall be no insulation breakdown, as defined in subclause 5.2.2 of IEC 60950-1 and IEC 62368-1, during the test. The resistance after the test shall be at least 2 M ohm, measured at 500 V dc". This compliance criteria aplies for a) and b) and c) electrical test procedures. However a) and b) compliance requirements are different than for c) impulse test. Requirements a) and b) compliance criteria per paragraph 5.2.2 IEC60950: "There shall not be insulation breakdown during test. Insulation breakdown is considered to have occurred when the current that flows as a result of the application of the test voltage rapidly increases in an uncontrolled manner, that is the insulation does not restrict the flow of current".	The text " There shall be no insulation breakdown, as defined in subclause 5.2.2 of IEC 60950-1 and IEC 62368-1, during the test. The resistance after the test shall be at least 2 M ohm, measured at 500 V dc." specifies IEC 60950-1 subclause 5.2.2 but does not specify similar IEC62368-1 subclause. For consistency , we should add subclause 5.4.9.2 of IEC62368-1. Therefore in IEEE 802.3bt text can be change from "IEC60950-1 and IEC62368-1: to "IEC60950-1 or IEC62368-1". See arkadiy_01_0517.pdf for more issues about this text. SuggestedRemedy Adopt arkadiy_01_0517.pdf.					
For requirements c): per paragraph 6.2.23 IEC60950-1:						
"For impulse tests, damage to insulation is verified in one of two ways, as follows: - during the application of the impulses, by observation of oscillograms. Surge suppressor	Response Response Status C ACCEPT IN PRINCIPLE.					
operation or breakdown through insulation is judged from the shape of an oscillogram. - after application of all the impulses, by an insulation resistance test. Disconnection of	OBE by 240					
surge suppressors is permitted while insulation resistance is being measured. The test voltage is 500 V d.c. or, if surge suppressors are left in place, a d.c. test voltage that is	### ###					
10 % less than the surge suppressor operating or striking voltage. The insulation resistance shall not be less than 2 MO."	Comment 240 has the following response: ACCEPT IN PRINCIPLE.					
Therefore IEEE requirements that" The resistance after the test shall be at least 2 Mohm, measured at 500 V dc" referring just to impulse test c) and not to steady stay tests a)	adopt Walker_1_0517_rev_4.pdf					
and b). Therefore compliance critea should be removed at all from IEEE802.3bt or it need to be specify correctly for case a) and b) and separately to case c) according to requirements of IEC60950 or IEC62368.	C/ 145 SC 145.5.3.3.2 P 219 L 31 # 73 Darshan, Yair Mirosemi					
SuggestedRemedy	Comment Type TR Comment Status A DL					
Adopt Arkadiy_01_0517.pdf	pse_power_update variable is used by the state machine but is missing from the variable					
Response Response Status C REJECT.	list in the PSE section.					
REJECT.	SuggestedRemedy					
Out of scope. However, an 802.3 ad hoc has been proposed to consider these issues.	Copy the variable pse_power_update from 145.2.5.4 into 145.5.3.3.2					
	Response Response Status W					
	ACCEPT IN PRINCIPLE.					
	Copy with editorial license as reference to Figure is not needed.					

Cl 145 SC 145.5.3.6.2 P 228 L 26 # 74 Darshan, Yair Mirosemi	C/ 145 SC 145.5.3.6.2 P 229 L 18 # 76 Darshan, Yair Mirosemi
Comment Type TR Comment Status A Pres: Darshan2 pse_power_update_alt(X) variable is used by the state machine but is missing from the variable list in 145.5.3.6.2. We do have pse_power_update_pri and pse_power_update_sec that do it but we may need away to transform from _pri and _sec to _alt(X). SuggestedRemedy Adopt darshan_02_0517.pdf Response Response Status C	Comment Type E Comment Status A DL The text "When a PD mode is not active, the value shall be set to zero." was not in the baseline in darshan_03_0317 SuggestedRemedy Remove "When a PD mode is not active, the value shall be set to zero." DL Remove "When a PD mode is not active, the value shall be set to zero." Response Response Status C ACCEPT.
ACCEPT IN PRINCIPLE. Adopt darshan_02_0517_final.pdf	Cl 145 SC 145.5.3.6.2 P 229 L 34 # 77 Darshan, Yair Mirosemi
C/ 145 SC 145.5.3.6.2 P 228 L 30 # 75 Darshan, Yair Mirosemi Comment Type TR Comment Status A DLL The text "The PSE power control state diagram (Figure 145-41) uses "_alt(X)", which is defined in 145.3.3, and the following variables:" was not in the approved baseline from March 2017 (darshan_03_0317Rev007F.pdf) but we need it for the introduction of this term. The problem is that "_alt(X)" is not defined in 145.3.3. SuggestedRemedy Change from "The PSE power control state diagram (Figure 145-41) uses "_alt(X)", which is defined in 145.3.3, and the following variables:" To: "Dual-signature PSEs shall provide the behavior of the state diagram shown in Figure 145-41 over each pairset independently unless otherwise specified. All the parameters that apply to Alternative A and Alternative B are denoted with the suffix "_alt(X)" where "X" can be "A" or "B". A parameter that ends with the suffix "_alt(X)" may have different values for Alternative B."	Comment Type TR Comment Status A Pres: Darsham In the text "pse_dll_ready_alt(X) An implementation-specific control variable that indicates that the PSE has initialized Data Link Layer classification. This variable maps into the aLldpXdot3LocReady attribute (30.12.2.1.20)." there are few updates need to be made: 1) the aLldpXdot3LocReady attribute (30.12.2.1.20)." there are few updates need to be made: 1) the aLldpXdot3LocReady need to be "aLldpXdot3LocReadyA and aLldpXdot3LocReadyB" (they are already used in the DLL state machine and exist in the variable list. 2) The aLldpXdot3LocReadyA and aLldpXdot3LocReadyB are not defined in clause 30. 3) The aLldpXdot3LocReadyA, alldpXdot3LocReadyB are not included in Table 30-7. 4. The link for 30.12.2.1.20 is correct for aLldpXdot3LocReady which is used for single-signature DLL state machine and is incorrect for the dual-signature DLL state machine. SuggestedRemedy Adopt darshan_01_0517.pdf Response Response Status C ACCEPT. This comment resolves comments: 79, 145
Response Response Status W	

ACCEPT IN PRINCIPLE.

Change from "The PSE power control state diagram (Figure 145-41) uses "_alt(X)", which is defined in 145.3.3, and the following variables:"

To: "Dual-signature PSEs provide the behavior of the state diagram shown in Figure 145-41 over each pairset independently unless otherwise specified. All the parameters that apply to Alternative A and Alternative B are denoted with the suffix "_alt(X)" where "X" can be "A" or "B". A parameter that ends with the suffix "_alt(X)" may have different values for Alternative A and Alternative B."

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 U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

Comment ID 77

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Cl 145 SC 145.5.3.6.5 P 231 L 51 # 78 Darshan, Yair Mirosemi	C/ 145 SC 145.5.3.7.5 P 234 L 51 # 80 Darshan, Yair Mirosemi
Comment Type TR Comment Status A DLL	Comment Type T Comment Status D DLL
The changes for the title of figure 145-45 was not implemented per darshan_03_0317Rev007F.pdf	The changes for the title of figure 145-46 was not implemented per darshan_03_0317Rev007F.pdf
SuggestedRemedy	SuggestedRemedy
Change from "Figure 145-45-PSE power control state diagram when connected to a dual- signature PD"	Change from "Figure 145-46-Dual-signature PD power control state diagram" To "Figure 145-46-Dual-signature PD power control state diagram mode(X)"
To "Figure 145-45-PSE power control state diagram Alternative (X) when connected to a dual-signature PD mode (X)"	Proposed Response Response Status Z
Response Response Status C	REJECT.
ACCEPT IN PRINCIPLE.	This comment was WITHDRAWN by the commenter.
Change to: "Figure 145-45-PSE power control state diagram for dual-signature PDs"	C/ 145A SC 145A.3 P 266 L 23 # 81
Editor to propagate change ("for") to other state diagram titles.	Darshan, Yair Mirosemi
C/ 145 SC 145.5.3.7.2 P 233 L 29 # 79	Comment Type ER Comment Status A Annex In the text "Current unbalance requirements (RPSE_min, RPSE_max and ICon-2P_unb) of
Comment Type TR Comment Status A Pres: Darshan1 In the text" pd_dll_ready_mode(X) An implementation-specific control variable that indicates that the PD has initialized Data Link Layer classification for mode(X). This variable maps into the aLldpXdot3LocReady attribute (30.12.2.1.20)." there are few updates need to be made: 1) the aLldpXdot3LocReady need to be "aLldpXdot3LocReadyA and aLldpXdot3LocReadyB" (they are already used in the DLL state machine and exist in the variable list. 2) The aLldpXdot3LocReadyA and aLldpXdot3LocReadyB are not defined in clause 30. 3) The aLldpXdot3LocReadyA, aLldpXdot3LocReadyB are not included in Table 30-7. 4. The link for 30.12.2.1.20 is correct for aLldpXdot3LocReady which is used for single-signature DLL and is incorrect for the dual-signature PD. SuggestedRemedy	 Rload_max and Rload_min are specified in Equation 145-16, Equation 145-17 and Table 145-17 and not just Table 145-17. Rpese_min and Rpse_max is not met with Rload_max and Rload_min. They need to conform only to Equation 145-15. Only Icon-2P_unb need to be met with Rload_max and Rload_min. Current unbalance requirements are plural and yet there is "is met with ." which is wrong. SuggestedRemedy Change from "Current unbalance requirements (RPSE_min, RPSE_max and ICon-2P-unb) of a PSE is met with Rload_max and Rload_min as specified in Table 145-17." To "Current unbalance requirements (RPSE_min, RPSE_max, and ICon-2P-unb) of a PSE are met with Rload_max and Rload_min as specified in Equation 145-16, Equation 145-17, and Table 145-17." Response Response Status
Adopt darshan_01_0517.pdf	ACCEPT IN PRINCIPLE.
Response Response Status C ACCEPT IN PRINCIPLE.	Change to:
OBE by 77	"PSE current unbalance requirements need to be met with Rload_max and Rload_min applied as specified in Equation 145-16, Equation 145-17, and Table 145-17."
### ### Comment 77 has the following response: ACCEPT. Suggested remedy: Adopt darshan_01_0517.pdf	

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 U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

C/ 145A SC 145A.3 P 266 L 34 # 82	C/ 145A SC 145A.3.2 P 267 L 27 # 83						
Darshan, Yair Mirosemi Comment Type ER Comment Status A Annex	Darshan, Yair Mirosemi Comment Type TR Comment Status A						
Comment Type ER Comment Status A Annex In the text "Figure 145-22 illustrates the relationship between effective resistances at the	Comment Type TR Comment Status A TODO#151, #130 We need to verify by simulations that 145A.3.2 test model is working.						
PSE PI as specified by Equation (145-15) and Rload_min and Rload_max as specified in	Suggested Remedy						
Table 145-17.": Rload_max and Rload_min are specified in Equation 145-16, Eququation 145-17 and Table 145-17 and not just Table 145-17.	It is KEN TODO. If not implemented yet, keep in TODO.						
uggestedRemedy	Response Response Status W						
Change from "Current unbalance requirements (RPSE_min, RPSE_max and ICon-2P-unb)	ACCEPT IN PRINCIPLE.						
of a PSE is met with Rload_max and Rload_min as specified in Table 145-17."							
To " ICon-2P-unb is met with Rload_max and Rload_min as specified in Equation 145-16, Eququation 145-17, and Table 145-17."	OBE by 41						
esponse Response Status C	### ###						
ACCEPT IN PRINCIPLE.	Comment 41 has the following response:						
	ACCEPT IN PRINCIPLE.						
Change from: "Figure 145-22 illustrates the relationship between effective resistances at the	Adopt Bennett_01_0517.pdf pages 10-12.						
PSE PI as specified by Equation (145-15) and Rload_min and Rload_max as specified in	Adopt Bennett_01_0517.pdf pages 10-12.						
Table 145-17."	Editor to replace lines 30-34 on page 10 of the pdf with:						
To: "Figure 145-22 illustrates the relationship between effective resistances at the	A method to determine whether RPSE_max and RPSE_min conform to Equation (145-15) is defined in 145A.3.1.						
PSE PI as specified by Equation (145-15) and Rload_min and Rload_max as specified in Equation 145-16, Equation 145-17, and Table 145-17."	Editor given license to rewrite sentence on page 10 line 36 to remove the use of 'should'.						
	CI 145A SC 145A.4 P 268 L 16 # 84						
	Darshan, Yair Mirosemi						
	Comment Type ER Comment Status D Editor						
	The title of subclause 145A.4 was not implemented per the baseline darshan_01_0317Rev008. SuggestedRemedy Change from "145A.4 PD resistance and current unbalance" To "145A.4 PD PI resistance and current unbalance"						
	Proposed Response Response Status Z						
	REJECT.						

Cl 145 SC 145 Darshan, Yair	<i>P</i> Mirosemi	L	# 85	C/ 145 SC 145.2.1 P 103 L 20 # 87 Johnson, Peter Sifos Technologies Sifos Technologies B7
compatability so Type	Comment Status D use 145 contains the informa 3 and 4 PSEs to support Typ by Type 1 and 2 PSEs.			Comment Type E Comment Status A Editor "A PSEs can" - typo SuggestedRemedy "A PSE can."
If not ready to the mean Proposed Response REJECT.	eting add to TO DO list Response Status Z			Response Response Status C ACCEPT IN PRINCIPLE. OBE by 101
	ITHDRAWN by the comment	er.		### ###
C/ 145 SC 145.1.3 Johnson, Peter	P 102 Sifos Techno	L 13 logies	# 86	Comment 101 has the following response: ACCEPT IN PRINCIPLE.
is defined in Table 14 same Rch. SuggestedRemedy	Comment Status A upported value of RCh depend 5-1." is not really true any mo defined in Table 145-1." Response Status C			Change to: "A PSE can be categorized as a Type 1, Type 2, Type 3, or Type 4 PSE." Cl 145 SC 145.2.1 P 103 L 24 # 88 Johnson, Peter Sifos Technologies Base Comment Type E Comment Status A Editor The sentence "The PD may then operate in a reduced power mode." would make more sense with a qualifier. SuggestedRemedy Change to "Depending upon the PSE capability, a PD may need to operate in a reduced power mode." Response Response Status C ACCEPT IN PRINCIPLE. Comment Capability Capability
				OBE by 256 ### ### ### Comment 256 has the following response: ACCEPT IN PRINCIPLE. Remove last sentence.

Cl 145 Johnson, Pe	SC 145.2 eter	2.7	P 151 Sifos Technol	L 51 ogies	# 89	C/ 145 Johnson,		145.2.7.1		<i>P</i> 154 Sifos Tec	L 20 hnologies	#	91
Comment T		Comme	nt Status A	egiee	PSE Class	Comment		т	Comme	nt Status A	eiegiee		4PID
Improve perform SuggestedF Change	e clarity: "P n classificat R <i>emedy</i> e to "PSEs t	SEs that will del ion on each pair that will deliver 4	iver 4-pair power	dual-signature P	ure PD shall	The fo conne for on Type	ollowing ected to ily one c of the c	sentence a dual-sigi lass event	is a bit awl nature PD, t, shall issu PD, then tra	ward and imp implementing an initial thr	orecise and could g 4PID based on ee classification her the CLASS_F	classification events to de	d. "A PSE n and enabled termine the
	i priysical la	-				Suggeste	dReme	dy					
Response ACCEP Cl 145	РТ. SC 145. 2		e Status C	L 53	# 90	classi state	fication corresp	to determi onding to t	ine Dual Signation that pairset	gnature PD Ty if Dual Signa	er on a pairset th ype, shall transiti ture PD requires ugh Type-4 PD c	ion to the CL more than C	ASS_RESET Class 3 power
Johnson, Pe							at punot				agii iypo i i b c		
	eter		Sifos Technol			Response	9		Respons	e Status C			
The ser discove event a	<i>Type</i> T ntence, "PS er the PD re ofter perform	Es that require quested Class, hing mutual iden	tification or classi	ogies s for mutual ider power allows m fication.", uses	<i>PSE Class</i> ntification, or to nay issue a class reset an undefined phrase	Repla A PSI	EPT IN F ace with: E that in	nplements	E. 4PID base		ation and is restr		
The ser discove event a "class r becaus more ev	<i>Type</i> T ntence, "PS er the PD re fiter perform reset event" e the sente vents than t	Es that require quested Class, ning mutual iden and also would	nt Status A more class events than the available tification or classi be better placed t would then descri	ogies s for mutual ider power allows m fication.", uses as the 2nd sent	<i>PSE Class</i> ntification, or to nay issue a class reset	ACCE Repla A PSI less, deterr CLAS	EPT IN I the with: E that in when co mine the S_RES	nplements onnected to Type of th ET_SEC.	E. 4PID base o a dual-sig the connect	ed on classific mature PD, sh ed PD, then t	nall issue three ir ransition to eithe	ntial classific r CLASS_RE	ation events to ESET_PRI or
discove event a "class r becaus more ev SuggestedF	Type T ntence, "PS er the PD re fiter perform reset event" e the sente vents than the Remedy	Es that require quested Class, ning mutual iden and also would nce preceding it he Class they s	nt Status A more class events than the available tification or classi be better placed t would then descr upport.	ogies s for mutual ider power allows m fication.", uses as the 2nd sent ribe the core iss	PSE Class ntification, or to nay issue a class reset an undefined phrase ence after Table 145-13 sue of not furnishing	ACCE Repla A PSI less, deterr CLAS	EPT IN F the with: E that in when co mine the SS_RES	nplements onnected to e Type of th	E. 4PID base o a dual-sig the connect	ed on classific gnature PD, sh red PD, then th P 137	hall issue three in ransition to eithe	ntial classific r CLASS_RE	ation events to
The ser discove event a "class r becaus more ev SuggestedF Move so	Type T ntence, "PS or the PD re fifter perform reset event" we the sente vents than Remedy entence to	Es that require quested Class, ning mutual iden and also would nce preceding it he Class they s line 23 of page	nt Status A more class events than the available tification or classi be better placed t would then descr upport. 153. Re-phrase a	ogies s for mutual ider power allows m fication.", uses as the 2nd sent ribe the core iss as "PSEs that m	PSE Class ntification, or to nay issue a class reset an undefined phrase ence after Table 145-13 sue of not furnishing	ACCE Repla A PSI less, v deterr CLAS C/ 145 Johnson,	EPT IN P the with: E that in when comine the SS_RES SC Peter	nplements onnected to Type of th ET_SEC.	E. s 4PID base o a dual-sig the connect	ed on classific gnature PD, sh red PD, then to P137 Sifos Tecl	hall issue three in ransition to eithe	ntial classific r CLASS_RE	ation events to ESET_PRI or 92
The ser discove event a "class r becaus more ev SuggestedF Move s events	Type T ntence, "PS or the PD re fiter perform reset event" the sente vents than the <i>Remedy</i> entence to that the cla	Es that require quested Class, ing mutual iden and also would nce preceding it the Class they s line 23 of page ss they are capa	nt Status A more class events than the available tification or classi be better placed t would then descr upport. 153. Re-phrase a able of supporting	ogies s for mutual ider power allows m fication.", uses as the 2nd sent ribe the core iss as "PSEs that m in order to dete	PSE Class ntification, or to nay issue a class reset an undefined phrase ence after Table 145-13 sue of not furnishing	ACCE Repla A PSI less, deterr CLAS C/ 145 Johnson, Comment	EPT IN I the with: E that in when co mine the SS_RES SC Peter Type	nplements onnected to e Type of th ET_SEC. 145.2.5.7 E	E. s 4PID base o a dual-sig the connect	ed on classific mature PD, sh red PD, then tr <i>P</i> 137 Sifos Tech nt Status A	nall issue three ir ransition to eithe <i>L</i> 28 hnologies	ntial classific r CLASS_RE	ation events to ESET_PRI or
The ser discove event a "class r becaus more ev SuggestedF Move s events	Type T ntence, "PS or the PD re fiter perform reset event" the sente vents than the <i>Remedy</i> entence to that the cla	Es that require quested Class, ning mutual iden and also would nce preceding it the Class they s line 23 of page s they are capa the CLASS_RE	nt Status A more class events than the available tification or classi be better placed t would then descr upport. 153. Re-phrase a able of supporting	ogies s for mutual ider power allows m fication.", uses as the 2nd sent ribe the core iss as "PSEs that m in order to dete	PSE Class ntification, or to nay issue a class reset an undefined phrase ence after Table 145-13 ue of not furnishing	ACCE Repla A PSI less, deterr CLAS C/ 145 Johnson, Comment	EPT IN I the with: E that in when co mine the SS_RES SC Peter Type	nplements onnected to e Type of th ET_SEC. 145.2.5.7 E	E. s 4PID base o a dual-sig the connect	ed on classific gnature PD, sh red PD, then to P137 Sifos Tecl	nall issue three ir ransition to eithe <i>L</i> 28 hnologies	ntial classific r CLASS_RE	ation events to ESET_PRI or 92
The ser discove event a "class r becaus more ev SuggestedF Move s events may (sh Response ACCEP	Type T ntence, "PS ar the PD re fifter perform reset event" the sente vents than the Remedy entence to that the cla hall?) utilize	Es that require quested Class, ning mutual iden and also would nce preceding it the Class they s line 23 of page s they are capa the CLASS_RE <i>Respons</i> CIPLE.	nt Status A more class events than the available tification or classi be better placed t would then descr upport. 153. Re-phrase a able of supporting ESET state to rese	ogies s for mutual ider power allows m fication.", uses as the 2nd sent ribe the core iss as "PSEs that m in order to dete et mutual identif	PSE Class ntification, or to nay issue a class reset an undefined phrase ence after Table 145-13 ue of not furnishing	ACCE Repla A PSI less, deterr CLAS C/ 145 Johnson, Comment Typo Suggester	EPT IN I ace with: E that in when co mine the SS_RES SC Peter Type - State dRemed	nplements onnected to Type of th ET_SEC. 145.2.5.7 E variable ps	E. s 4PID base o a dual-sig the connect	ed on classific mature PD, sh red PD, then tr <i>P</i> 137 Sifos Tech nt Status A	nall issue three ir ransition to eithe <i>L</i> 28 hnologies	ntial classific r CLASS_RE	ation events to ESET_PRI or 92

Comment ID 92

C/ 145 SC 145.2.8.5.1 P 163 L 2 # 93	Cl 145 SC 145.2.8.5.1 P 163 L 46 # 95
Johnson, Peter Sifos Technologies	Johnson, Peter Sifos Technologies
Comment Type E Comment Status A	Comment Type T Comment Status R Pres: Darshan12
Table 145-17 no longer has Rload_* values but is titled "Rload_max and Rload_min requirements".	This paragraph (starting with "ICon-2P-unb and Equation (145-15) are specified for.") needs some help. It is not very clear and is grammatically flawed.
SuggestedRemedy	SuggestedRemedy
Re-title table to "Rload_max and Rload_min components"	Replace with: "The values for Icon_2p_unb and the relationship between RPSE-max and
Response Response Status C	RPSE_min (Equation 145-15) are valid given that Rchan-2P ranges from 0.2 ohms to 12.5 ohms and that the PD meets requirements of 145.3.8.10. In cases where Rchan-2P is less
ACCEPT IN PRINCIPLE.	than 0.2 ohms or Rchan is less than 0.1 ohm, PSE compliance with Icon-2P-unb can be
OBE by 265	evaluated using Rload_min and Rload_max both reduced by 0.5 X Rchan-2P. This compliance will require a reduction in the ratio of RPSE_max to RPSE_min presented by Equation 145-15.
### ### ###	Response Response Status C
Comment 265 has the following response: ACCEPT.	REJECT.
Suggested remedy:	
Change title to: "Table 145-17 Unbalance load resistances"	text is out of scope. No changes were made last draft.
C/ 145 SC 145.2.8.5.1 P 163 L 34 # 94	C/ 145 SC 145.2.8.6.1 P 165 L 33 # 96
Johnson, Peter Sifos Technologies	Johnson, Peter Sifos Technologies
Comment Type E Comment Status A Editorial	Comment Type T Comment Status D PSE Inrusi
In keeping with fact that Table 145-17 does not have Rload_* values, insert phrase to explain this on line 34.	There is an inconsistency in the three minimum inrush current requirements a), b), and c) and Table 145-16. Conditions a) and b) specify "minimum linrush-2P" requirements with
SuggestedRemedy	actual values while Table 145-16 is blank for minimum Inrush-2P given Single Signature PD. Are these figures really applicable to linrush-2P or are they applicable to linrush?
Modify sentence to "Table 145-17 specifies the values of resistance used in computing Rload_min and Rload_max according to"	Item c) says refer to Table 145-16 for minimum linrush-2P, but again, those boxes are blank for Single Signature.
Response Response Status C	SuggestedRemedy
ACCEPT.	Resolve if 5mA and 60mA are really applicable to linrush or linrush-2P. For condition c), replace with ".above 30V, the minimum linrush and Dual Signature linrush-2P reqiurements are as specified in Table 145-16."
	Proposed Response Response Status Z
	REJECT.
	This comment was WITHDRAWN by the commenter.

C/ 145	SC	145.2.8.6.1	P 165	L 44	# 97	
Johnson, P	eter		Sifos Techno	ologies		
Comment 7	Гуре	т	Comment Status A		PSE Inru	sh
The firs	st para	araph of 14	5.2.8.6.1 describes a Type	e-4 PSF that is all	lowed to provide	

minimum linrush below what is specified in Table 145-16. It then stipulates "Such a PSE that implements a minimum linrush lower than defined in Table 145-16 shall successfully power up a single-signature PD comprised of a parallel combination of 360 μ F and a Class 2 load within Tlnrush-2P min...". This description does not jive with Figure 145-23 that was altered to allow that some PD's start inrush at some time after power is applied. The Tinrush-2P min requirement presumably only works for PD's that draw inrush starting with the power-up.

SuggestedRemedy

I do no know how to resolve this since specifying that a PSE has the full Tinrush-2P min period to power a PD is contrary to the overall inrush specification. PD's must be designed to charge with linrush min in a time period Tinrush-2P min less any delay time in the PD's start of inrush. This minimum inrush exception would present an interop risk it seems.

Response Response Status C

ACCEPT IN PRINCIPLE.

Remove 145.2.8.6.1 and references to it from Table 145-16.

C/ 145	SC 145.2.8.8	P 168	L 27	
Johnson, Pe	ter	Sifos Technolo	gies	

Comment Type I Comme	Comment Type	т	Commen
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nment Status R

PSE Power

98

This is purely a "for the record" comment. The final two paragraphs in 145.2.8.8 are, at face value, contradictory. The first of these states that Tlim-2P governs "short circuit" shutdown timing and notes that port voltage may drop below Vport_PSE-2P. The last sentence then says the PSE may ignore Tlim-2P timing if the voltage drops below Vport_PSE-2P.

SuggestedRemedy

My solution would be to remove the final sentence and I also wonder if it has the same relevancy now that Type-3 and 4 are a different clause in the standard. (The sentence was added at the beginning of the 802.3bt project.)

Response Response Status C

REJECT.

This idea existed in the previous standard. Also, this is needed for foldback to protect the PSE power FET.

Also, technically OoS.

C/ 145	SC 145.3.8.6	P 198	L 39	# 99
Johnson, Pete	r	Sifos Technol	ogies	
Comment Typ	e E	Comment Status A		Pres: Yseboodt1

The sentence "Table 145-29 defines two PSE transient conditions and PD Types to which these apply" did not keep up with the fact that Table 145-29 no longer has PD Types in it.

SuggestedRemedy

Change to "Table 145-29 defines two PSE output voltage transients and associated channel resistance conditions."

Response	Response Status	С
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ACCEPT IN PRINCIPLE.

Change to "Table 145-29 defines three PSE output voltage transients."

C/ 145	SC 145.1	P 99	L 17	# 100
Jones, Ch	nad	Cisco		
<u> </u>				

Comment Type ER Comment Status A Editorial

the text "This clause specifies Type 3 and Type 4 devices and their interaction with Type 1 and Type 2 devices." makes it sound like we are only specifying Type 3 and 4 interaction to Type 1,2.

SuggestedRemedy

change to: "This clause specifies Type 3 and Type 4 devices, including their interaction with Type 1 and Type 2 devices."

Response Response Status W

ACCEPT IN PRINCIPLE.

OBE by 254

###

Comment 254 has the following response:

ACCEPT. Suggested remedy:

"This clause specifies Type 3 and Type 4 devices as well as their interaction with Type 1 and Type 2 devices."

IEEE P802.3bt D2.4 4-Pair	PoE 4th Working Group	recirculation ballot comments

				• ·					
C/ 145 SC 145.2.1	P 103	L 20	# 101	C/ 145	SC 1	45.3.6	P 187	L 45	# 104
Jones, Chad	Cisco			Jones, Ch	ad		Cisco		
Comment Type ER	Comment Status A		Editorial	Comment	Туре	Е	Comment Status A		Editoria
the sentence: "A PS PSE." improper tens	Es can be categorized as eithe e.	r a Type 1, Type	2, Type 3 or Type 4				Additionally, classification is e of the device they are cor		
SuggestedRemedy				Suggeste	dRemedy	/			
change to: "A PSE c	an be categorized as either a T	ype 1, Type 2, T	ype 3 or Type 4 PSE."				classification is used by the		D to mutually identify
Response	Response Status C				•	e device to	which they are connected.		
ACCEPT IN PRINCI	PLE.			Response			Response Status C		
Change to: "A PSE of	can be categorized as a Type 1		or Type 4 PSF "	ACCE	PT.				
	san be calegonzed as a Type T	, турс 2, турс 3	, or type +1 OE.	C/ 145	SC 1	45.2.8.4	P 159	L 28	# 105
This comment resolv	/es comment: 87			Jones, Ch	ad		Cisco		
C/ 145 SC 145.3.4	4 P 186	L 18	# 102	Comment	Туре	Е	Comment Status A		Editoria
Jones, Chad	Cisco						1/20/17: Please review the t		
Comment Type ER	Comment Status A		Editorial				the document, especially the re is a possibility of unfores		
the text "PD requesti	ing power by presenting a deter	ction signature o	utside of Table 145-20				example, words such as "e		
is non-compliant," n	eeds 'A' at the beginning	-					e modified, if they are inacc		
SuggestedRemedy							or example, "to ensure safe		nged to "to improve
	questing power by presenting a	detection signat	ure outside of Table	safety	" or "to p	revent" mi	ight be changed to "to redu	ce.".	
145-20 is non-compl		detection signat		I he n terms	ext sevei	al comme	ents will be the result of my a comments with #ABSOLU	search of the do	cument for these
Response	Response Status W						ed to rare circumstances su		lving switchover of
ACCEPT.				backu	p power	supplies to	o ensure system robustnes	s"	
				Suggeste	dRemedy	/			
This comment resolv	es comment: 308					ould be lin	nited to rare circumstances	such as those ir	nvolving switchover of
C/ 145 SC 145.2.7	7 P 150	L 43	# 103	backu		to improv	/e system robustness"		
Jones, Chad	Cisco			Response			Response Status C		
Comment Type E	Comment Status A		Editorial	•		RINCIPLE	•		
The text "If the PD c	onnected to the PSE performs	Autoclass (see 1	45.2.7.2 and						
145.3.6.2), the PSE	may set its minimum supported t we were trying to clear this up	d output power ba		Remo	ve "to er	sure syste	em robustness"		
SuggestedRemedy									
	o connected to the PSE perform may set THE minimum support								
Response	Response Status C								
ACCEPT.									

C/ 145 SC 145.2.8.5.1	P 162	L 15	# 106	C/ 145	SC 145.4.9.1	1.7 P 215	L 41	# 108
Jones, Chad	Cisco			Jones, Cha	ad	Cisco		
Comment Type E #ABSOLUTE The PSE PI pair-to-pair eff RPSE_min ensures that al connectors) and the PD, th exceed ICon-2P-unb as de SuggestedRemedy change to: The PSE PI pa RPSE_max and RPSE_mi and connectors) and the P current including unbalanc during normal operating co	long with any other parts of he pairset with the highest afined in Table 145-16 duri ir-to-pair effective resistan in, along with any other pa 2D, bounds the current suc the does not exceed ICon-2	of the system, i.e. current including ing normal opera ice unbalance de irts of the system ch that the pairse	, channel (cables and unbalance does not ting conditions. termined by , i.e., channel (cables t with the highest	loss ar near-e specifi Suggested chang loss ar crossta specifi Response	DLUTE To ensu nd alien FEXT lo nd crosstalk (MI ed. <i>IRemedy</i> e to: To bound th nd alien FEXT lo alk (MDANEXT) ed.	Comment Status A re the total alien NEXT bass coupled between link segm DANEXT) loss and multiple dis the total alien NEXT bass coupled between link segm loss and multiple disturber alie Response Status C	sturber alien FE	EXT (MDAFEXT) loss is disturber alien near-end
Response F	Response Status C			ACCE	PI.			
ACCEPT.				C/ 33	SC 33.4.9.1.	7 P 69	L 38	# 109
This comment resolves co	omments: 50, 139			Jones, Cha	ad	Cisco		
Jones, Chad Comment Type E #ABSOLUTE RPD_min, R i.e., channel (cables and c unbalance does not excee operating conditions. See	connectors) and the PSE, t d ICon-2P-unb as defined	the maximum pai	r current including	limited alien F <i>Suggested</i> chang loss ar	l, multiple disturt EXT (MDAFEX <i>Remedy</i> e to: To bound th nd alien FEXT lo	en NEXT loss and alien FEXT ber alien near-end crosstalk (N T) loss is specified. he total alien NEXT bes coupled between link segm loss and multiple disturber alie	IDANEXT) loss nents, multiple	s and multiple disturber disturber alien near-end
SuggestedRemedy				Response		Response Status C		
change to: RPD_min and l channel (cables and conne pair current including unba during normal operating co <i>Response F</i> ACCEPT.	ectors) and the PSE, boun alance does not exceed IC	ids the current su on-2P-unb as de	ch that the maximum	Suggested	SC 145.3.4 klos <i>Type</i> E offset and Vpd=2 <i>IRemedy</i>	P 187 Silicon Labs Comment Status A 2.7V markers are shifted to the -2.7V markers to the right, corr Response Status C	Ũ	# <u>110</u> Editoria 33-34.

C/ 145 SC 145 L 33 # 111 111 Lukacs, Miklos Silicon Labs Silicon Labs	C/ 33 SC 33.4.	9.1 <i>P</i> 67 Siemon	L 11	# 113
	Maguire, Valerie			
Comment Type ER Comment Status R Editorial	Comment Type E	Comment Status A		AES
The text is incomplete: "A PSE detecting an invalid PD signature on either Alternative may perform detection on the other Alternative, and if valid may perform classification on that pairset."	titled, "Connector"	the work area or equipment corc or "telecom outlet" Midspan PSE ause 145.4.9.1 if allowed as part	device transmis	sion requirements".
SuggestedRemedy	SuggestedRemedy			
Change the text to: "A PSE detecting an invalid PD signature on either Alternative may perform detection on the other Alternative, and if the PD signature is valid then the PSE may perform	Option 1: List only variants to clause 3	the 5 connector variants in claus 33.4.9.1.4	e 33.4.9.1 and m	ove the 5 equipment
classification on that pairset." Response Response Status W		es 11 - 23 (The sentence starting hts) to clause 33.4.9.	with, "There are	10 variants" and the
REJECT.	Response	Response Status C		
Out of Scope.	ACCEPT IN PRIN	CIPLE.		
C/ 33 SC 33.4.9.1 P 67 L 5 # 112	List only the 5 con clause 33.4.9.1.4	nector variants in clause 33.4.9.1	and move the 5	equipment variants to
Aguire, Valerie Siemon	Also, Apply change	e to clause 145.4.9.1.		
Comment Type T Comment Status A AES				
At best, "telecom outlet" is a misused reference for the work area outlet - it is not typically a generic term for any connector in a channel or link segment. Since TIA and ISO/IEC have	Cl 33 SC 33.4. Maguire, Valerie	9.1 <i>P</i> 67 Siemon	L 16	# 114
specific rules about the work area outlet and applications-specific electrical components, this term causes confusion and should be removed from the document. Apply change to clause 145.4.9.1 if allowed as part of this ballot cycle.	Comment Type E Typo - "of" instead	Comment Status A of "or"		Editorial
SuggestedRemedy	SuggestedRemedy			
Replace all occurances of "connector or telecom outlet Midspan PSE" with "connector	Replace "work area	a of equipment" with "work area	or equipment"	
Midspan PSE".	Response	Response Status C		
Replace all occurances of "Connector" or "telecom outlet" Midspan PSE' with "Connector" Midspan PSE.	ACCEPT.			
Response Response Status C				
ACCEPT IN PRINCIPLE.				

C/ 33	SC	33.4.9.1	P 67	L 7	# 115	C/ 33 SC :
Maguire, V	/alerie		Siemon			Maguire, Valerie
Comment	Туре	т	Comment Status A		AE	S Comment Type
segm	ent is n	eeded. Pos	ector Midspan PSE and how ssible misuse of quotes, too allot cycle.			Quotes are no actual naming clause 145.4.9
Suggeste	dReme	dy				SuggestedRemed
			PSE equipment to be insert transmission parameters."	ed as "connecto	or" or "telecom outlet"	Delete quotes
shall	meet th		pan PSE replaces one of the transmission parameters."	e connectors in	the link segment and	(Hopefully, tel <i>Response</i> ACCEPT IN F
Response		PRINCIPLI	Response Status C			ALSO, Apply
	0	e to clause				C/ 33 SC : Maguire, Valerie
Ask V	alerie t	o submit m	aintenance request for claus	se 33.		– Comment Type
CI 33	SC	33.4.9.1	P 67	L 14	# 116	Hierarchically
Maguire, V	/alerie		Siemon			outlet" Midspa
Comment	Туре	Е	Comment Status A			33.4.9.1. It is heading. Appl
An as not ne Apply	SuggestedRemea Replace, "33					
Suggeste	dReme	dy				with, "33.4.9.2
	ce all o an PSE		of "work area or equipment	cable Midspan	PSE" with "cord	requirements"
Response)		Response Status C			Re-number tra
ACCE	PT IN	PRINCIPLI	Е.			Response
AL 00						ACCEPT IN F
ALSO	, Apply	change to	clause 145.4.9.1			ALSO, Apply
						/ Lee e , / L pp.)

CI 33	SC	33.4.9.1	P 67	L 5	# 117		
Maguire, Va	lerie		Siemon				
Comment T	ype	Е	Comment Status A		AES		
Quotes are not needed around the words "connector" or "telecom outlet" since this is							

ng convention of the component as used in the document. Apply change to 1.9.1 if allowed as part of this ballot cycle.

dy

es around "Connector" and "telecom outlet".

elecom outlet has been removed as a result of an earlier Maguire comment).

Response	Response Status	С	
----------	-----------------	---	--

PRINCIPLE.

change to clause 145.4.9.1

CI 33	/ 33 SC 33.4.9.1.4 aguire, Valerie	33.4.9.1.4	P 68	L 45	# 118
Maguire	, Valerie		Siemon		
Commo	nt Turno	-	Commont Status		

Е Comment Status A AES

y, this clause should be the same level as 33.4.9.1 "Connector" or "telecom ban PSE device transmission requirements. It should not be a subclause of is also missing the information about transmission requirements in the ply change to clause 145.4.9.1.4 if allowed as part of this ballot cycle.

dv

3.4.9.1.4 Work area or equipment cable Midspan PSE"

.2 Work area or equipment cable Midspan PSE device transmission s"

ransmission parameter subclauses accordingly.

Response	Response Status	С	
ACCEPT IN PRINCIPLE	Ξ.		

change to clause 145.4.9.1.4

C/ 33 S Maguire, Valer	C 33.4.9.1.4	<i>P</i> 68 Siemon	L 47	# 119
Comment Type	ə T	Comment Status A		AES

An explanation of Cord Midspan PSE and how it is implemented within a link segment is needed. This sentence can be merged with the one below regarding transmission performance to correct the misuse of the word "cable". It is not necessary to introduce the term "iumper" here since there are no longer any external transmission references. Clarify that the subject pairs are those transmiting and recieving data, not power. Apply change to clause 145.4.9.4 if allowed as part of this ballot cycle.

SuagestedRemedv

Use revision marks as necessary to show the following text in underline and all old text in strikethrough.

Replace. "Replacing the work area or equipment cable with a cable that includes a Midspan PSE should not alter the requirements of the cable. This cable shall meet the requirements of this clause and the specifications for a (jumper) cord as specified for insertion loss, NEXT, and return loss for the transmit and receive pairs, as shown in Table 33-20a."

with, "A cord Midspan PSE replaces an equipment or work area cord in a link segment and shall meet or exceed the insertion loss, NEXT, and return loss values specified Table 33-20a for all data transmitting pairs."

Response

Response Status C

ACCEPT IN PRINCIPLE.

Replace with, "A Midspan PSE replaces an element in a link segment and shall meet or exceed the insertion loss, NEXT, and return loss values specified Table 33-20a for all data transmitting pairs." in clause 145.4.9.4

Ask Valerie to submit maintenance request for clause 33.

CI 33	SC	33.4.9.1.4	P 69	L 4	#	120	
Maguire,	Valerie		Siemon				
Comment	Type	т	Comment Status A				AES

Comment Type Comment Status A т

In Table 33-20a, the reference Midspan PSE assembly is a cord, not a cable or cabling. Apply change to Table 145-15 if allowed as part of this ballot cycle.

SuggestedRemedy

Replace. "Table 33-20a-Cable specifications for use with Midspan PSEs"

with, "Table 33-20a-Cord specifications for use with Midspan PSEs"

Replace, "Cabling specification"

with. "Cord specification"

Response Response Status C ACCEPT IN PRINCIPLE.

ALSO, Apply change to Table 145-15

C/ 145 SC 145.4.1 Peker, Arkadiy		P 204	L 16	# 121
Peker, Arkadiy		Mirosemi		
Commont		Commont Status		Draat Dakar1

Comment Type Comment Status A Pres: Peker1 Е

In the text "Accessible external conductors are specified in subclause 6.2.1 b) of IEC 60950-1 and IEC 62368-1.", standard specifies IEC 60950-1 subclause 6.2.1b but does not specify similar IEC62368-1 subclause. For consistency, we should add subclause of IEC62368-1

SuggestedRemedy

Adopt Arkadiv 01 0517.pdf

Response Response Status C

ACCEPT IN PRINCIPLE.

OBE by 240

###

Comment 240 has the following response: ACCEPT IN PRINCIPLE.

adopt Walker_1_0517_rev_4.pdf

C/ 145 SC 145.4.1 P 204 L 16 # 122 Peker, Arkadiy Mirosemi	C/ 145 SC 145.4.1 P 204 L 18 # 123 Peker, Arkadiy Mirosemi
Comment Type E Comment Status A Pres: Peker1	Comment Type T Comment Status R Pres: Peker1
In the text "Accessible external conductors are specified in subclause 6.2.1 b) of IEC 60950-1 and IEC 62368-1.", the 802.3bt requires to meet both standards IEC60950-1 (which will be withdrawn by the end of 2018) and IEC 62368-1. From a safety point of view, device or system need to satisfy just one of this standard. Therefore, we should change AND to OR. SuggestedRemedy Adopt Arkadiy_01_0517.pdf Response Response Status C ACCEPT IN PRINCIPLE. OBE by 240	In the text "This electrical isolation shall withstand at least one of the following electrical strength tests:", there is an ambiguity in current IEEE 802.3bt requirements for electrical isolation. Customers may argue (and we have many such cases) that a product meet UL/IEC electrical isolation requirements but does not meet IEEE802.3. Customers believes that IEEE802.3 requirements are more stringent than UL/IEC and does not allow to remove protective components as it allowed in IEC 60950-1 5.2.2 Note 4 as follows: "NOTE 4 Components providing a d.c. path in parallel with the insulation to be tested, such as discharge resistor for filter capacitors, voltage limiting devices or surge suppressors, should be disconnected." The requirements which allow to remove components as in Note 4 should be added to IEEE specs or at least IEEE802.3bt should have clear referal on this subject to IEC60950 or IEC62368.
### ###	SuggestedRemedy
Comment 240 has the following response: ACCEPT IN PRINCIPLE. adopt Walker_1_0517_rev_4.pdf	Adopt Arkadiy_01_0517.pdf <i>Response Response Status</i> C REJECT.
	Out of scope. However, an 802.3 ad hoc has been proposed to consider these issues.

C/ 145 SC 145.4.1 P 204 L 27 # 124	C/ 145 SC 145.4.1 P 204 L 27 # 125						
Peker, Arkadiy Mirosemi	Peker, Arkadiy Mirosemi						
Comment Type T Comment Status R Pres: Peker1 IIEEE802.3bt has following compliance criteria for the electrical stength test: "There shall be no insulation breakdown, as defined in subclause 5.2.2 of IEC 60950-1 and IEC 62368-1, during the test. The resistance after the test shall be at least 2 M ohm, measured at 500 V dc". This compliance criteria aplies for a) and b) and c) electrical test procedures. However a) and b) compliance requirements are different than for c) impulse test. Requirements a) and b) compliance criteria per paragraph 5.2.2 IEC60950: "There shall not be insulation breakdown during test. Insulation breakdown is considered to have occurred when the current that flows as a result of the application of the test voltage rapidly increases in an uncontrolled manner, that is the insulation does not restrict the flow of current". For requirements c): per paragraph 6.2.23 IEC60950-1: "For impulse tests, damage to insulation is verified in one of two ways, as follows: - during the application of the impulses, by observation of oscillograms. Surge suppressor operation or breakdown through insulation is judged from the shape of an oscillogram. - after application of all the impulses, by an insulation resistance test. Disconnection of	The text " There shall be no insulation breakdown, as defined in subclause 5.2.2 of IEC 60950-1 and IEC 62368-1, during the test. The resistance after the test shall be at least 2 M ohm, measured at 500 V dc." specifies IEC 60950-1 subclause 5.2.2 but does not specify similar IEC62368-1 subclause. For consistency , we should add subclause 5.4.9.2 of IEC62368-1. Therefore in IEEE 802.3bt text can be change from "IEC60950-1 and IEC62368-1: to "IEC60950-1 or IEC62368-1". See arkadiy_01_0517.pdf for more issues about this text. SuggestedRemedy Adopt arkadiy_01_0517.pdf. Response Response Status C ACCEPT IN PRINCIPLE. OBE by 240						
surge suppressors is permitted while insulation resistance is being measured. The test voltage is 500 V d.c. or, if surge suppressors are left in place, a d.c. test voltage that is 10 % less than the surge suppressor operating or striking voltage. The insulation resistance shall not be less than 2 MO."	### ### Comment 240 has the following response: ACCEPT IN PRINCIPLE.						
Therefore IEEE requirements that" The resistance after the test shall be at least 2 Mohm, measured at 500 V dc" referring just to impulse test c) and not to steady stay tests a) and b). Therefore compliance critea should be removed at all from IEEE802.3bt or it need to be specify correctly for case a) and b) and separately to case c) according to requirements of IEC60950 or IEC62368.	adopt Walker_1_0517_rev_4.pdf						
SuggestedRemedy							
Adopt Arkadiy_01_0517.pdf							
Response Response Status C REJECT.							
Out of scope. However, an 802.3 ad hoc has been proposed to consider these issues.							

Cl 145 Picard, Jea	SC 145.2.8.3	P 159 Texas Ins	L 24 truments	# 126	Cl 1 Schindle	SC 1.4.236a . Fred	P 24 Seen Simp	L 24 Iv. Cisco, T	# 128
Comment T		Comment Status R	liuments	Pres: Darshan15	Commer		Comment Status A	iy, Cisco, T	Definitions
voltage 0.1uF o "The m allows lasting	e, all it can do is cap). ninimum PD inpu a PD to operate less than 30 µs	e does not make sense. In temporarily turn off its po ut capacitance CPort min for input voltage transier as specified in 145.3.8.6	rt (it's only a low si or CPort-2P min d its which cause VF	de switch after all, with a efined in Table 145-28,	"A sy pair is inc Swite	cabling." correct. Since the ch====endpoint-P	of one PSE and one PD that first release of clause 33 a PSE====Midspan-PSE=== 3 and 145 provide requirem	i valid system cor =PD	figuration has been,
Suggested							emoves uncertainty about v		
Use sir V".	milar wording to	the "at" standard, removi	ng "which cause V	PD to drop as low as 0	Suggeste	edRemedy			
The wo		ut capacitance CPort min		'	"A sy		d sentence with, if one PSE, which may sou is balanced twisted-pair ca		
allows 145.3.8		for input voltage transier	its lasting less thar	1 30 µs as specified in	Respons	e	Response Status C		
Response		Response Status W				EPT IN PRINCIPL	_E.		
REJEC	CT.				Char	nge to:			
Out of	scope.					418ad Type 4 PSI er. (See IEEE 802	E: A PSE that supports Cla .3, Clause 145)."	ss 8 power levels	, short MPS, and 4-pair
C/ 145 Picard, Jea	SC 145.3.8.6	P 198 Texas Ins	L 24 truments	# 127					
Comment 1		Comment Status R		PD Power					
"A PD = PSE P This se the PS only a l Also, if	shall continue to I as defined in 1 entence does no E cannot really low side switch the voltage at th figuration (load	operate without interrup	ers to a transient t can do is tempora). not at PSE PI is p	o 0V at the PI. In reality ily turn off its port (it's urely dependent on the					
Suggested	Remedy								
		operate without interrup	tion while there is l	oss of power at PSE PI					
Response		Response Status W							
REJEC	CT.								
Out of	scope								
	tochnical require	d ER/editorial required	CR/general require	d T/technical E/editorial	G/general		Corr	ment ID 128	Page 34 of 80

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 U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

C/ 1	SC 1.4.416	P 24 L 50	# 129	C/ 79	SC 79.3.2	P75 L47	# 130
Schindler, Fre	ed	Seen Simply, Cisco, T		Schindler, Fr	ed	Seen Simply, Cisco, T	
Comment Typ	e TR	Comment Status D	PSE Types	Comment Ty	pe TR	Comment Status A	LLDP

This comment closes a TODO related to D2.3 #91 and #209 for Fred and Yair, located on page 198 145.3.8.6 L22. This work is also related to schindler_1_0915 that was updated by D1.7 #94.

The PD was addressed in my TODO provided for D2.3. This comment is related but is determining whether PSEs charge the PD bulk capacitance to a level that keeps the PSE current below ILIM-2P. The PD is a passive participant when the PSE drops and raises its VPSE. Therefore, the PSE needs to provide ILIM for a TLIM that charges the PD capacitance to its operating value. A class-4 PD is designed to work with the existing IEEE 802.3-2015 requirements.

SPICE simulations of the two PD tests in 145.3.8.6 show the systems interoperate correctly. The proposed solution clarifies PSE Type definitions to make TLIM-2P dependent on the PSE Type.

----- details ----

Most people responding to a preview of this comment interpret the IEEE PSE Type definitions, which take the form "A PSE that supports ." (see Type definitions in 1.4.41x) as, "this PSE is capable of supporting class-x" while I interpreted the text as "this PSE is supporting class-x". If a PSE assigns class-4 then the PSE is only supporting the assigned class. Therefore, a Type 3 and Type 4 PSE providing this power level fits the definition of Type-2 PSE using my interpretation. Note how the text is interpreted depends on the time when the definition is tested,

- currently supports (when it is driving the PD), which is my view;

- capable of supporting (before it is driving the PD), which is the view of others.

Type-2 and Type-3 PSEs provide a TLIM-2P of 10 ms and an ILIM-2P of at least 0.684A to a class-4 PD, which supports interoperation. A Type-4 PSE has a TLIM-2P of 6 ms. SPICE simulations show that when this PSE supplies 2x ILIM-2P to the class-4 PD with the maximum capacitance that it takes less than 6 ms to reach a PD operating point , which results in less than 2x ILIM-2P current demand.

Note that Type-4 PSEs need to support ILIM-2P on both pairsets to support interoperation with class-4 PDs, which is already a requirement for the PSE.

SuggestedRemedy

For Type-3 and Type-4 PSE definitions starting on page 24, replace ". that supports ." with ". that is capable of supporting .".

Proposed Response Response Status Z

This comment was WITHDRAWN by the commenter.

REJECT.

Added text,

"Type 1 and Type 2 devices shall not support the Type 3 and Type 4 extension."

Incorrectly blocks legacy types from using TLVs, Power status, System setup, PSE maximum available power, Autoclass, and Power done. The existing text does indicate what legacy Types are required to place in all Type 3 and Type 4 extension fields.

SuggestedRemedy

Strike the called-out text.

Response Response Status W

ACCEPT IN PRINCIPLE.

OBE by 293

###

Comment 293 has the following response: ACCEPT IN PRINCIPLE.

No changes to draft. LLDP ad hoc was formed.

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 U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

Comment ID 130

Page 35 of 80 5/25/2017 8:56:06 AM

CI 79	SC 79	.3.2.5	P 79	L 1	-	# 131		CI 79	SC	79.3.2.6		P 79	L 49	# 133	
Schindler,	Fred		Seen S	imply, Cisco, T	-			Schindler,	Fred		:	Seen Simply	, Cisco, T		
Comment	Туре	ER	Comment Status	4			LLDP	Comment	Туре	ER	Comment St	tatus A			LLDI
in Tab for PD A and signat	PD reques ile 79-5, fo requeste PD reque ure PDs." ectly refer	or Type 1 ed power ested pov	er value field shall con , Type 2, and single- value shall be set to t rer value Mode B in T field of Table 79-5, w ses it with PD.	signature Type the sum of PD Fable 79-6a, for	3 and Type requested por r Type 3 and	4 PDs. The ower value I I Type 4 dua	fields Mode al-	power a dual value provid Type 2 should	sum of t value A signatu Alternat led in th 2 PSEs	Alternative ure PD for tive A field e PSE allo ." e a referen	B field shall be Type 3 and Ty and the PSE a poted power va	e provided in pe 4 PSEs. Illocated pov alue field for	ative A field and th the PSE allocate The sum of the P ver value Alternat a dual-signature d the sentence ca	d power value fie SE allocated pow ive B field may b PD for Type 1 ar	eld for ver ve nd
Suggested	dRemedy							Suggestee	dRemed	ły					
"The F Table PD ree and P	79-5, for quested p D request ure PDs."	sted powe Type 1, T ower valu ed powe	xt with, r value field shall cor ype 2, and single-sig le shall be set to the value Mode B in Tal <i>Response Status</i> (nature Type 3 sum of PD req ble 79-6a, for T	and Type 4 uested powe	PDs. The fie er value Moo	elds for	"The s power define sum c value	sum of t value A d in Tal f the PS Alternat 79-6 fo	Alternative ole 79-6 fo SE allocate tive B field	ocated power B field shall be r Type 3 and T ed power value may be provid	provided in ype 4 PSEs Alternative ed in the PS s connected	ative A field and th the PSE allocate connected to a d A field and the PS E allocated powe I to a dual-signatu	d power value fie ual-signature PD E allocated pow r value field defir	eld 9. The er
CI 79	SC 79	226	P 79	L 4		# 132		ACCE	PT IN F	PRINCIPLE	Ξ.				
Schindler,		0.3.2.0	-	imply, Cisco, T	-	# 132		Editor	to add	reference	to Table 79-6.				
Comment	Туре	ER	Comment Status	4			LLDP								
define PDs." Incorre Suggested Repla "The F	PSE alloca d in Table ectly refer dRemedy ce the cal PSE alloca	e 79-6 for rence the led out te ated pow	er value field shall co PSEs connected to s field of Table 7-6, wh xt with, er value field shall co onnected to single-si	single-signature nich should be ntain the PSE a	e PDs and T PSE allocate allocated po	ype 1 and T ed power va wer value de	lue. efined								
			child to shigh 3	griataro i Do al		13 1 ypo 2 1	20.								
Response			Response Status (.											

The existing text, "When the power typex is PI signature PD for Mode A du the power typex is PSE and set to the PSEs assigned CI May lead to miss interpretat field being covered by the set	Seen Simply, Cisco, T comment Status A D this field shall be set to the requested 0 ring Physical Layer Classification as defin the PSE is connected to a dual-signature ass for Alternative A as defined in 145.2.	ned in 145.3.6. When e PD, this field shall be	Changes made requirements be #406 comment	during D2.3 to a ecause Table 79-	ddress comment #4	106 change LLDF	^D behavior		
This same issue exists for 7 SuggestedRemedy Replace the first called-out t "When the power typex is Pl the requested Class of the of Classification as defined in 7 connected to a dual-signatu set to the PSEs assigned Cl For 79.3.2.6c.4 p81 L49, rep "When the power typex is Pl the requested Class of the of Classification as defined in 7 connected to a dual-signatu set to the PSEs assigned Cl For 79.3.2.6c.4 p81 L53, rep "When the power typex is fo Classx field shall be set to th Classification as defined in 7	D the Dual-signature power Classx Mode ual-signature PD for Mode A during Phys 45.3.6. When the power typex is PSE ar re PD, the Dual-signature power Classx I ass for Alternative A as defined in 145.2. Jace the similar text with, D the Dual-signature power Classx Mode ual-signature PD for Mode B during Phys 45.3.6. When the power typex is PSE ar re PD, the Dual-signature power Classx I ass for Alternative B as defined in 145.2.								
by the total power indicated	ture PDs set Power Classx field to the p by Power Classx Mode A and Power Cla sponse Status W								

C/ 145 SC 145.2 Schindler, Fred	.5.1.1	P 112 Seen Simply,	<i>L</i> 51 Cisco, T	# 136	Cl 145 Schindler,	SC 145.2.7.1 Fred	P 152 Seen Simply,	<i>L</i> 44 Cisco, T	# 138
Comment Type ER	Comm	nent Status A		PSE SD	Comment		comment Status A		Editorial
The existing text, "Monitoring of MPS handled by Figure	is handled b 145-19."	y Figure 145-17 an	d Figure 145-18	Monitoring of inrush is	145 (IE	EEE 802.3-2015 was	lleted "- shall" for setting scanned to confirm this) For example, on page 1	. The approach	
uses the word "ha SuggestedRemedy Replace the called "The state diagram in Figure 145-19 m	-out text with, in Figure 145	5-17 and Figure 145	5-18 monitors M	PS. The state diagram	- shall PDs. - shall		of four class events and of three class events and		0 0
Response ACCEPT IN PRIN		nse Status W			Where capital		tart? I see a period afte	r "PDs." but the	next bullet is not
OBE by 304 ### ### ### Comment 304 has ACCEPT. Suggested remedy Change "is handle described by the s	: d by" to "is de	scribed by the state	e diagrams in" (f	or MPS) and "is	"The F condu magni - shall - shall Note tl	PSE PI shall withstand ctor to any other cond tude of the current thr not exceed IPSEUT- not exceed IPSEUT- hat this list starts usin	in the Clause. For exan d without damage the ap luctor within the cable for ough such a short circui Type3-2P, as defined in Type4-2P, as defined in g a colon, and does not nust be preceded by a fu	plication of short or an indefinite pe it: Equation (145-1 Equation (145-2 have a period. \$	circuits of any priod of time. The 9), for Type 3 PSEs 0), for Type 4 PSEs" Style guides (Diana
Cl 145 SC 145.2 Schindler, Fred Comment Type ER	Comm	P 125 Seen Simply, nent Status A	L 42 Cisco, T	# 137 Editorial	". Clos senter	sing punctuation shounces. Lists shall be pro-	14, indicates the followin Id be omitted or phrases eceded by an introducto includes the following exa	 Punctuation sh ry sentence expl 	ould be used for
SuggestedRemedy	Fix typo "classtiming" SuggestedRemedy Use "class timing". Response Respon	nse Status W			Begi Inclu senter If at	in with a capital letter. ude final punctuation f nce.	for all items in the list if o s in the dashed list is a c	one items in the l	·
					р170 L р 171	_44 4x shall _19 11x shall, and bul L1 2x shall, 1x may L34 2x shall	leted mays		
					Suggested	IRemedy			
					Force D3.x.	should also get the a A TODO should be a	vith our esteemed Edito dvice of senior IEEE cor ssigned for the changes ate the improvements, u	ntributors to craft required and thi	a final solution for s comment shall
TYPE: TR/technical re				T/technical E/editorial G/g	general		Comm	ent ID 138	Page 38 of 80

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

provide direction and it has been implemented.	C/ 145	SC 1	145.2.8.5.1	P 162	L 15	# 139
The preferred choice is to restore text and move away from bullets.	Schindler,	Fred		Seen Simply	y, Cisco, T	
Response Response Status C	Comment	Туре	ER Co	omment Status A		Unbalance
ACCEPT IN PRINCIPLE.				se "ensures", which w		
Editor to consult experts and style guide and format lists appropriately.	Task F	Force ca	an amend or ac	162 L15 and p201 L29 lopted to get the text t not fixed in the adopte	hey prefer. A rela	ited comment was
	"The F RPSE conne	PSE PI p min en ectors) ar	sures that alor nd the PD, the		s of the system, i.e st current includin	e. channel (cables and g unbalance does not
	"RPD_ (cable not ex	_min, RF	onnectors) and on-2P-unb as o		im pair current inc	system, i.e., channel luding unbalance does perating conditions.
	Suggested	dRemedy	У			
	"The RPSE conne and a highes	PSE PI p min, in ctors that PD that st curren	conjunction w at meet Rch_u meets 145.3.8 it including unb	ective resistance unba ith other parts of the s nb_min and Rch_unb .10 requirements, lim	ystem, i.e., chanr _max requirement it the current on th	el (cables and s per Table 145-17)
	"The RPD_ conne and a highes	PD PI pa max in c ctors tha PSE tha st curren	conjunction with at meet Rch_u at meets 145.2 at including unb	tive resistance unbaland other parts of the synchimic and Rch_unb 8.5.1 requirements, li	stem, i.e., channe _max requirement mit the current on exceed ICon-2P-0	l (cables and is per Table 145-17)
	Response		Re	sponse Status C		
	ACCE	PT IN P	RINCIPLE.			
	OBE b	ov 106				
	### ## Comm ACCE Sugge chang	## ### nent 106 PT. ested ren je to: The	e PSE PI pair-t	o-pair effective resista		etermined by n, i.e., channel (cables
TVPE: TP/technical required EP/editorial required GP/general required T/technical E/editorial G/gen	aral			Comr	nont ID 120	Page 39 of 80

Comment ID 139

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and connectors) and the PD, bounds the current such that the pairset with the highest current including unbalance does not exceed ICon-2P-unb as defined in Table 145-16 during normal operating conditions.

C/ 145	SC 145.3.2	P 172	L 28	# 140
Schindler, I	Fred	Seen Simply, C	Cisco, T	
Comment 7	Type TR	Comment Status D		PD PI

Comment Type **TR** Comment Status D

"The PD shall withstand any voltage from 0 V to 57 V applied to Mode A, Mode B, and both simultaneously indefinitely without permanent damage."

This text does not cover PD connections that exist with Type 3 and 4 PSEs. The VPSE voltage for Type 3 and 4 PSEs normally has the negative polarity on the hot-swap switch path and the positive polarity is unswitched. Therefore, PDs will be exposed to the positive polarity on both Modes and will have a negative polarity on one mode when one Mode has been powered on.

SuggestedRemedy

Replace the called-out text with.

"The PD shall withstand any voltage from 0 V to 57 V applied to Mode A, Mode B, both simultaneously, and Mode-A and Mode-B positive pairs and either Mode negative pair, indefinitely without permanent damage."

Proposed Response Response Status Z REJECT.

This comment was WITHDRAWN by the commenter.

Cl 145 Schindler,		145.3.3	P1 Seen	73 Simply, Cis	<i>L</i> 3 со, Т	# 141
Comment	Туре	ER	Comment Status	Α		PD
"A pai	ng text, rameter lode B."	that ends	with the suffix "_mod	de(X)" may l	have differ	rent values for Mode A
			press the concern th s of the suffix. This i			ble that does not need to 7.
Suggestee	dRemed	y				
Optior Strike		ed-out se	ntence.			
"A pai	ce the caracter	that ends	sentence with, with the suffix "_modestate diagrams."	de(X)" may l	have differ	rent values for Mode A
Response			Response Status	w		
ACCE	PT IN P	RINCIPL	F			

Replace the called-out sentence with,

"A parameter that ends with the suffix "_mode(X)" may have different values for Mode A and Mode B in the independent state diagrams."

CI 145 SC	C 145.3.8	P 194	L 26	# 142	C/ 145 SC	145.3.8.1	0 P 2	01	L 8	# 144
Schindler, Fred		Seen Simply,	Cisco, T		Schindler, Fred		Seen	Simply,	, Cisco, T	
Comment Type	TR	Comment Status A		Pres: Darshan5	Comment Type	ER	Comment Status	Α		Pres: Darshar
systems sho 28.3 W, whi provides at	ould provide ile on line 2 least 42 W,	ing conditions Single-signatu e the same power levels. On 6 a class-4 DS provides at le while on line 27 a class-5 DS peak power). The math work	line 12, a class ast 28.4 W. Or S provides at le	-4 SS provides at least ne line 13, a class-5 SS ast 37.2 W (this is the	duty cycle, ar	ture PDs nd shall no	shall not exceed ICo ot exceed IPeak-2P-u e same polarity . "			n TCUT-2P min and 5 % 145-16 on any pair
SuggestedRem	edy				Incorrectly ref	foronco th	e source of IPeak-2F	Junh w	which is not in th	e reference table
Replace the	e Table item	11 for Class 4, which is "28.	4" with "28.3".		SuggestedRemed		le source of ir eak-2r	-uno, w		e leference table.
Replace the	e Table item	11 for Class 5, which is "37.	2" with "42".		Replace the c		text with,			
Response		Response Status W			"Cinala sima		ahall act average (ICa)		h fan lan nan tha.	
ACCEPT IN	I PRINCIPL	Е.			duty cycle, ar	nd shall no				n TCUT-2P min and 5 % tion (145-12) on any pair
Change pea	ak power va	lues to "28.3" for class 4 and	"37.4" for class	s 5.	Response		Response Status	С		
substituting substituting	Pclass_PD	Link Layer classification by or Pclass_PD-2P with PDMa with Pautoclass_PD. P 200 Seen Simply,	L 13	and for Autoclass by # 143						
Comment Type	TR	Comment Status D		PD Power						
"NOTE-The allowed by appear at th	worst-case Table 145-1 ne PI than the emphasized	changed normative text to a condition is when both PSE 6 and Table 145-28, which m e standalone case as specif information that the reader s	and PD genera ay cause a hig ed by this claus	her noise level to se."						
Ũ		ilidi.								
SuggestedReme Change the	-	mative text,								
noise allowe	ed by Table	se condition occurs when bo 145-16 and Table 145-28, w he standalone case as specif	hich may cause	a higher noise level to						
Proposed Resp		Response Status Z	-							
PROPOSEI	D REJECT.									

This comment was WITHDRAWN by the commenter.

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 U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

Schindler, Fred Comment Type	e TR	Comment Status	18 Simply, (A	<i>L</i> 41 Cisco, T	# 145 Pres: Darshan1 use 30 of our amended	BEHA A read classii	An EN pReady pReady VIOUR D I-only imp	UMBERAT /PSE /PD EFINED A lementatic as been ini	TED VALUE 1 PSE PD S: on-specific va	that has one lue used to ir		ı entries: r the Data Link Layer ernative B for a PSE, or	r
page 218						Response			Response Sta	atus C			
	3LocReady					ACCE	PT IN PR	INCIPLE.					
aLldpXdot	3LocReadyA 3LocReadyB						, ## ### ient 77 ha	as the follo	wing respons	se:			
A solution is provide below and should be reviewed by participants to improve the text before submission.							sted rem						
SuggestedRen	nedy					Adopt	darshan_	_01_0517.p	pdf				
Related cr	oss reference	es to these variables	also nee	d to be fixed.		C/ 145	SC 14	5.5.3.2		P 219	L 1	# 146	
Add the fo	Add the following text in the appropriate place in Clause 30.				Schindler,	Fred		5	Seen Simply,	Cisco, T			
ATTRIBUT APPROPR	ATE SYNT	AX:				Comment Type ER Comment Status A Editorial Table 145-39 is split over two pages and this needs to be made clear on the second page. SuggestedRemedy							
	n ENUMBER ReadyPSE	ATED VALUE that I PSE	nas one o	f the following	entries:	Modify the second table heading to add "(continued)" at the end of the title.							
рF ВЕНАVIOI	ReadyPD JR DEFINED	PD AS:				Response Response Status W ACCEPT IN PRINCIPLE. Editor to fix by either not splitting table or by suggested remedy.							
		initialized by the by			the Data Link Layer								
ATTRIBUT APPROPR A pF BEHAVIO A read-onl	IATE SYNT/ n ENUMBER ReadyPSE ReadyPD JR DEFINED y implementa on has been	AX: ATED VALUE that I PSE PD AS: ation-specific value u	used to inc	dicate whether	entries: the Data Link Layer rnative A for a PSE, or								

30.xxx aLldpXdot3LocReadyB ATTRIBUTE APPROPRIATE SYNTAX:

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 U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

C/ 145 SC 145.5.4 P 236 L 28 # 147 Schindler, Fred Seen Simply, Cisco, T Seen Simply, Cisco, T </td <td>C/ 79 L 51 # 149 Stewart, Heath Analog Devices 149</td>	C/ 79 L 51 # 149 Stewart, Heath Analog Devices 149					
Comment Type ER Comment Status A Editorial	Comment Type TR Comment Status A LLD					
Legacy text and new text use the sentence,	This appears to create a requirement on existing Type 1 and Type 2 PSEs.					
"The state diagrams describe the behavior above.",	SuggestedRemedy					
which is overly broad and can be made more specific by point to the appropriate state	Delete					
diagrams.	The sum of the PSE allocated power value Alternative A field and the PSE allocated power					
SuggestedRemedy For the referenced text on page 235, Line 28, replace with,	value Alternative B field may be provided in the PSE allocated power value field for a dual-					
"The state diagrams in Figures 145-41 and Figure 145-43 describe the behavior above."	signature PD for Type 1 and Type 2 PSEs.					
	Response Response Status C					
For the referenced text on page 236, Line 50, replace with, "The state diagrams in Figures 145-45 and Figure 145-46 describe the behavior above."	ACCEPT IN PRINCIPLE.					
	Change to:					
Response Response Status W ACCEPT.						
ACCEPT.	The sum of the PSE allocated power value Alternative A field and the PSE allocated power value Alternative B field may be provided in the PSE allocated power value field for Type 1					
C/79 SC 79.3.2.6 P79 L 50 # 148	and Type 2 PSEs when connected to a dual-signature PD.					
Stewart, Heath Analog Devices	Chair charters L2 adhoc.					
Comment Type TR Comment Status A LLDP						
Awkward and backwards. Implies requirement is on PD when I think it is on PSE.	Cl 79 SC 79.3.2.6b P 81 L 21 # 150					
The sum of the PSE allocated power value Alternative A field and the PSE allocated power	Stewart, Heath Analog Devices					
value Alternative B field shall be provided in the PSE allocated power value field for a dual- signature PD for Type 3 and Type 4 PSEs.	Comment Type ER Comment Status A LLD					
Suggested Remedy	Typo in shall					
Change	A PSE providing power to a Type 1, Type 2, and single-signature Type 3 and Type 4 PD, place 0 in the "PSE allocated power value Alternative A" and "PSE allocated power value					
for a dual-signature PD for Type 3 and Type 4 PSEs	Alternative B" fields.					
To for Time 2 and Time 4 DOFe connected to due bimetime DDe	SuggestedRemedy					
for Type 3 and Type 4 PSEs connected to dual-signature PDs	Change place to places					
Response Response Status C	Response Response Status W					
ACCEPT.	ACCEPT IN PRINCIPLE.					
	Replace with:					

C/ 79 SC 79.3.2.6b P 81 L 24 # 151 Stewart, Heath Analog Devices Image: Comparison of the second sec	C/ 145 SC 145.2.1 P 103 L 24 # 152 Stewart, Heath Analog Devices Analog Devices
	Remove last sentence. Remove last sentence of paragraph on page 172, line 24. Cl 145 SC 145.2.1 P 103 L 26 # 153 Stewart, Heath Analog Devices Comment Type ER Comment Status A Editoria Need to add Type 3 and Type 4 for clarity SuggestedRemedy Eqlace Table 145-2 summarizes the supported parameters of PSEs. With Table 145-2 summarizes the supported parameters of Type 3 and Type 4 PSEs. Response Response Status C ACCEPT. A C C C C

C/ 145 SC 145.3.1 P 171	L 25	# 154	C/ 145	SC	145.3.10	P 202	L 33	# 156
Stewart, Heath Analog Devices			Stewart, H	eath		Analog Device	es	
Comment Type ER Comment Status A		PD Types	Comment	Туре	ER	Comment Status R		PD MPS
The notion of construction is odd. We have already creaters PSE section and can reuse it here. SuggestedRemedy	eated the idea of co	onfiguration in the	MPS r require	equirer ements	ment. This were _exp	" was originally inserted due phrase was specifically intro licitly_ referenced to the PD	duced to ensur PI. Obviously t	e that the MPS he entire standard is
Change PDs can be constructed as single-signature or dual-sig To PDs can be of either single-signature construction or du		truction	enforced at the PD PI, however we strongly feel the standard will be weakened by accepting the removal of the "measured at the PD PI" in these two instances (lines 33, 36 Example for line 33 For single-signature PDs the MPS shall consist of current draw equal to or above IPort_MPS for a minimum duration of TMPS_PD followed by an optional MPS dropout for					instances (lines 33, 36).
Response Response Status C			no lon	ger tha		_PD.		
ACCEPT IN PRINCIPLE.			Suggested	Reme	dy			
Change PDs can be constructed as single-signature or dual-sig	noturo				oval of "mea dropout".	asured at the PD PI" on lines	33 and 36 jus	t prior to "followed by an
To	Jilatule		Response			Response Status W		
PDs can be implemented as either a single-signature c configuration.	configuration or a d	lual-signature	REJECT. This was removed because it directly contradicts the statement on line 46 that TMPS_PD					
C/ 145 SC 145.3.2 P 172 Stewart, Heath Analog Devices	L 24	# 155				use it directly contradicts the -case cable resistance betw		
Comment Type ER Comment Status A The referenced sentences use of "in that case" does not	ot make sense.	Editorial	CI 33C Stewart, H		33C.1.2	P 271 Analog Device	L 18	# 157
SuggestedRemedy			Comment	Туре	ER	Comment Status D		Anne
Change The PD may operate in a reduced power mode in that o	case.		The term "quasi-simultaneous" has been introduced. This is a very odd term and should be abolished. What was meant here?					
To When power limitations are present, the PD may then o	operate in a reduce	ed power mode	Suggested	Reme	dy			
Response Response Status W			Remo	ve qua	si and figur	e out why this label is here.		
ACCEPT IN PRINCIPLE.			Proposed REJE	•	nse	Response Status Z		
OBE by 271			This s				-	
### ### ###			I NIS C	ommer	n was will	HDRAWN by the commente	ı.	
Comment 271 has the following response: ACCEPT IN PRINCIPLE.								
- Change to regular text.								

C/ 145 SC 145.1.3 P 102 C/ 00 SC 0 P 1 L 1 L 22 # 158 # 160 Stover, David Analog Devices Stover, David Analog Devices Comment Type TR Comment Status A Pres: Stover1 Comment Type ER Comment Status A **F**ditorial TODO 2.3: "Update VPSE, VPD, and PI definitions to include 2-pair and 4-pair. Remove 'at Adopted comment remedy against D2.3 (#27): "Replace "4-pairs" with "4 pairs". Editor to the XXX PI' from our draft." implement rules in comment through entire draft" This rule was not applied to similar matches (e.g., "2-pair", "2-pairs", "4-pairs"). SuggestedRemedy SuaaestedRemedv See stover 01 0417.pdf Replace "4-pair" with "4 pair", "2-pair" with "2 pair", "2-pairs" with "2 pairs". Response Response Status C Response Response Status W ACCEPT. ACCEPT IN PRINCIPLE. adopt stover 01 0517.pdf Not sure what this comment is asking for, so I will simply restate the rules from comment This comment resolves comment: 31 27 in D2.3: "Use of "4-pairs" is wrong through draft. The hyphen should only be used when "4-pair" is C/ 1 P 24 used as an adjective (ex. 4-pair power). If "pair" or "pairs" is used as a noun, there should SC 1.4.254 L 33 # 159 be no hyphen." Stover. David Analog Devices Comment Type **TR** Comment Status D Pres: Stover2 Editor to make sure rule is followed. TODO 2.3: "Fix connection check, definitions, etc. for endspan/midspan conflicts." P 125 L 43 C/ 145 SC 145.2.5.6 # 161 SuagestedRemedv Stover. David Analog Devices See stover_02_0417.pdf Comment Type ER Comment Status A **F**ditorial Proposed Response Response Status Z "The tice - timer." "to allow abbreviated classtiming duration." Timer name broken across REJECT. lines; missing a space between words. SuggestedRemedy This comment was WITHDRAWN by the commenter. Join "tlce_timer" on a single line. Add a space between "classtiming". Response Response Status W ACCEPT. C/ 145 SC 145.2.5.6 P 126 L 23 # 162 Stover, David Analog Devices Editorial Comment Type ER Comment Status A "When a PD requests a higher class than a PSE can support". I believe this is an instance where Class needs proper case. SuggestedRemedv "When a PD requests a higher Class than PSE can support." Fix here and on P127, L2 (pse req pwr sec). Response Response Status W

ACCEPT.

IEEE P802.3bt D2.4 4-Pair PoE 4th Working Group recirculation ballot 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 U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

C/ 145 SC 145.2.5.	· · ·	L 33	# 163	-	SC 145.3.3.2	-	L 26	# 166
Stover, David	Analog Devices			Stover, David		Analog Devices		
	Comment Status A ri: this variable." Per convention	, proper case follo	<i>Editorial</i> owing semicolon.		class A consta	Comment Status A ant indicatingthe PD requested C	lass." Missin	Editorial g a space.
(pse_allocated_pwr_s	ri: This variable." Fix here and c ec); P128, L7 (do_update_pse_ ated_pwr_pri); P128, L32 (do_u <i>Response Status</i> W	allocated_pwr); P		SuggestedRe "pd_req_ Response ACCEPT	class A consta	ant indicating the PD requested C Response Status W	Class."	
ACCEPT. 	7 D 400	1.24	# 404	<i>Cl</i> 145 Stover, David	SC 145.3.6	P 187 Analog Devices	L 52	# 167
C/ 145 SC 145.2.5. Stover, David Comment Type ER	P 133 Analog Devices Comment Status D	L 34	# 164 Editorial	<i>Comment Ту</i> р "The PD :		Comment Status A more power.than defined for the	requested cl	<i>Editorial</i> ass in Table." Proper
SuggestedRemedy	ssignment is split over 2 lines ir box to fit assignment on a single <i>Response Status</i> Z	_	LAST.	Response ACCEPT	ined for the re	equested Class in Table." Response Status W		
This comment was W	THDRAWN by the commenter.			<i>Cl</i> 145 Thompson, G	SC 145.2.8.6 eoff	.1 <i>P</i> 165 GraCaSI S.A.	L 46	# 168
C/ 145 SC 145.2.5. Stover, David	7 P 135 Analog Devices	L 42	# 165	Comment Typ Current te		Comment Status A t/D2.4: channel resistance		Channe
145-14 is broken such (IDLE_ACS to MEASU SuggestedRemedy	Comment Status A removed clearing of "pd_autocla that DLL-based Autoclass requ IRE_ACS is gated by "!pd_auto c from IDLE_ACS to MEASURE Request".	ests will never be class").		Response	,	.3bt/D2.5: link section resistance <i>Response Status</i> W E.		
Response ACCEPT.	Response Status C							

C/ 145 SC 145.2.8.6.1 P 166 L 2 # 169 Thompson, Geoff GraCaSI S.A. GraCaSI S.S. GraCaSI S.S. </td <td>C/ 145 SC 145.3.8.2.1 P 196 L 8 # 172 Thompson, Geoff GraCaSI S.A. GraCaSI S.S.</td>	C/ 145 SC 145.3.8.2.1 P 196 L 8 # 172 Thompson, Geoff GraCaSI S.A. GraCaSI S.S.
Comment Type ER Comment Status A Channel Current text in P802.3bt/D2.4: channel resistance SuggestedRemedy SuggestedRemedy	Comment Type ER Comment Status A Channel Current text in P802.3bt/D2.4: "For Class 5 dual-signature PDs, when additional information is available to the PD regarding actual channel DC resistance between the PSE PI and the PD PI, the PD may consume"
Proposed text for P802.3bt/D2.5: link section resistance Response Response Status W ACCEPT IN PRINCIPLE. REF 204	SuggestedRemedy Proposed text for P802.3bt/D2.5: "For Class 5 dual-signature PDs, when additional information is available to the PD regarding actual link section DC resistance, the PD may consume"
C/ 145 SC 145.3.8.2.1 P 196 L 3 # 170 Thompson, Geoff GraCaSI S.A.	Response Response Status W ACCEPT IN PRINCIPLE. REF 204
Comment Type ER Comment Status A Channel Current text in P802.3bt/D2.4: "PD regarding actual channel DC resistance between the PSE PI and the PD PI, the PD may consume greater" Channel	C/ 145 SC 145.3.8.4.1 P 198 L 4 # 173 Thompson, Geoff GraCaSI S.A. GraCaSI S.A. # 173
SuggestedRemedy Proposed text for P802.3bt/D2.5: "PD regarding actual link section DC resistance, the PD may consume greater"	Comment Type ER Comment Status A Channel Current text in P802.3bt/D2.4: "PD regarding actual channel DC resistance between the PSE PI and the PD PI, in any"
Response Response Status W ACCEPT IN PRINCIPLE.	SuggestedRemedy Proposed text for P802.3bt/D2.5: "PD regarding actual link section DC resistance, in any"
(Seems to be a repeat of comment 171) REF 204	Response Response Status W ACCEPT IN PRINCIPLE.
C/ 145 SC 145.3.8.2.1 P 196 L 3 # 171 Thompson, Geoff GraCaSI S.A. GraCaSI S.S. GraCaSI S.S. </td <td>REF 204</td>	REF 204
Comment Type ER Comment Status A Channel Current text in P802.3bt/D2.4: "PD regarding actual channel DC resistance between the PSE PI and the PD PI, the PD may consume greater"	
SuggestedRemedy Proposed text for P802.3bt/D2.5: "PD regarding actual link section DC resistance, the PD may consume greater"	
Response Response Status W ACCEPT IN PRINCIPLE.	
REF 204	

C/ 145 SC 145.3.8.10 P 201 L 34 # 174 Thompson, Geoff GraCaSI S.A. GraCaSI S.A.	C/ 145 SC 145.4.8 P 210 L 16 # 176 Thompson, Geoff GraCaSI S.A. GraCaSI S.S. GraCaSI S.S.
Comment Type ER Comment Status A Channel Current text in P802.3bt/D2.4: (The current text does not specify the endpoints of the "channel".) "Table 145-16, the channel resistance, and influence of RPD_min and RPD_max as function of system end-to-end unbalance). Common mode effective resistance"	Comment Type ER Comment Status A Channel Current text in P802.3bt/D2.4: "100BASE-TX shall enforce channel intra-pair current unbalance (see 145A.1)" SuggestedRemedy Proposed text for P802.3bt/D2.5: "100BASE-TX shall enforce link section intra-pair current unbalance (see 145A.1)"
Proposed text for P802.3bt/D2.5: (The solution provided assumes "channel" = link section.) "Table 145-16, the link section resistance, and influence of RPD_min and RPD_max as function of system end-to-end unbalance). Common mode effective resistance" Response Status W	Response Response Status W ACCEPT IN PRINCIPLE. REF 204
ACCEPT IN PRINCIPLE.	C/ 145 SC 145.4.9 P 211 L 4 # 177 Thompson, Geoff GraCaSI S.A. 177
C/ 145 SC 145.3.8.10 P 201 L 39 # 175 Thompson, Geoff GraCaSI S.A. GraCaSI S.A. Channel Comment Type ER Comment Status A Channel Current text in P802.3bt/D2.4: RPD_min, RPD_max ensures that along with any other parts of the system, i.e., channel (cables and connectors) and the PSE, P201 L 39 # 175	Comment Type ER Comment Status A Channe Current text in P802.3bt/D2.4: (Text and figure are unnecessary and confusing) SuggestedRemedy Proposed text for P802.3bt/D2.5: Delete cl. 145.4.9 and Figure 145-38 Response Response Status C
SuggestedRemedy Proposed text for P802.3bt/D2.5: RPD_min, RPD_max ensures that along with any other parts of the system, i.e., the link section and the PSE,	ACCEPT IN PRINCIPLE. Delete figure 145-38. Editor to add reference to 4 connector model from 11801.
Response Response Status W ACCEPT IN PRINCIPLE. REF 204	C/ 145 SC 145.4.9 P 212 L 51 # 178 Thompson, Geoff GraCaSI S.A. GraCaSI S.A. Comment Type ER Comment Status A Channe Current text in P802.3bt/D2.4:cabling channel shall Channe Channe Channe
	SuggestedRemedy Proposed text for P802.3bt/D2.5:cabling "channel" shall Response Response Status W ACCEPT.

C/ 145 SC 145.4.9	P 213	L 1	# 179		SC 145.A.2	P 265	L 27	# 181
Thompson, Geoff	GraCaSI S.A.			Thompson, G	leoff	GraCaSI S.A.		
Comment Type ER	Comment Status A		Channel	Comment Ty	be ER	Comment Status A		Channe
found in 25.4.9. (Not tre SuggestedRemedy	t/D2.4: The requirements for th ue, it is the "link segment" whic :.3bt/D2.5: The requirements fo	h is defined)		resistanc resistanc between	e unbalance b e unbalance o the channel p	bt/D2.4: Operation using 4-pair between each two pairs of the of 7 % whichever is a greater u airs is a measure of the differe	channel, not gr unbalance. Resi ence of resistan	eater than 100 mO or stance unbalance contract of the common
	Tx are found in 25.4.9. Specific			unbalanc	e is defined b	ors used for power delivery. Cl y Equation (145A-2):	nannei pair-to-p	air resistance
Response	Response Status C			SuggestedRe	emedy			
ACCEPT IN PRINCIPL	-			resistanc	e unbalance b	2.3bt/D2.5: Operation using 4- petween each two pairs of the e of 7 % whichever is a greate	link section, no	t greater than 100 mO
ALSO, Editor to fix "cl.	25" text in suggested remedy.					on pairs is a measure of the dif		
C/ 145 SC 145.A.2	P 265	L 24	# 180			ors used for power delivery. Li	nk section pair-	to-pair resistance
Thompson, Geoff	GraCaSI S.A.	L 24	# 100		e is defined b	y Equation (145A-2):		
• •	Comment Status A		Obernal	Response		Response Status W		
Comment Type ER Current text in P802.3b pair operation	t/D2.4: Pair-to-pair channel res	istance unba	Channel ance requirement for 4-	REF 204	IN PRINCIPL	.E.		
SuggestedRemedy				C/ 145	SC 145.A.2	P 265	L 36	# 182
Proposed text for P802 requirement for 4-pair of	.3bt/D2.5: Pair-to-pair link section	ion resistance	unbalance	Thompson, G		GraCaSI S.A.	2.50	# [102
Response	Response Status W			Comment Ty	be ER	Comment Status A		Channe
ACCEPT IN PRINCIPL	,				ext in P802.3t (145A-3):	ot/D2.4: Channel pair-to-pair re	esistance differe	ence is defined by
REF 204				SuggestedRe	emedy			
					text for P802 ion (145A-3):	2.3bt/D2.5: Link section pair-to	-pair resistance	difference is defined
				Response		Response Status W		
				ACCEPT	IN PRINCIPL	.E.		
				REF 204				

C/ 145 SC 145.A.2 Thompson, Geoff	P 265 GraCaSI S.A.	L 42	# 183	C/ 145 SC 145.A.2 Thompson, Geoff	P 266 GraCaSI S.A.	L 2	# 186
Comment Type ER Current text in P802.31 common mode resista	Comment Status A bt/D2.4: is the sum of channel p nce	pair component	Channel is with the highest	Comment Type ER Current text in P802.3t SuggestedRemedy	Comment Status A ot/D2.4: Channel and Rch		Pres: Darshan14
SuggestedRemedy Proposed text for P802 highest common mode	2.3bt/D2.5: is the sum of link se	ection pair comp	ponents with the	Proposed text for P802 Change alignment of b	2.3bt/D2.5: Change Channel to both PI s so that conductors sto		
Response ACCEPT IN PRINCIPI	Response Status W			Response ACCEPT IN PRINCIPL			
REF 204				the PI not through.	hk Section. Change alignment of	of both PI s so	that conductors stop at
C/ 145 SC 145.A.2 Thompson, Geoff	P 265 GraCaSI S.A.	L 44	# 184	C/ 145 SC 145.A.3 Thompson, Geoff	<i>Р</i> 266 GraCaSI S.A.	L 26	# 187
Comment Type ER Current text in P802.31 common mode resista	Comment Status A bt/D2.4: is the sum of channel p	pair component	Channel ts with the lowest		Comment Status A ot/D2.4:channel (cables and andards. BTW, the proper term		
SuggestedBernedy				0			
SuggestedRemedy Proposed text for P802 common mode resista	2.3bt/D2.5: is the sum of link se	ection pair comp	ponents with the lowest	"cabling") SuggestedRemedy			
Proposed text for P802	2.3bt/D2.5: is the sum of link sence Response Status W	ection pair comp	ponents with the lowest	"cabling") SuggestedRemedy	2.3bt/D2.5:link section Response Status W		
Proposed text for P802 common mode resista Response	2.3bt/D2.5: is the sum of link sence Response Status W	ection pair comp	ponents with the lowest	"cabling") SuggestedRemedy Proposed text for P802 Response	2.3bt/D2.5:link section Response Status W		
Proposed text for P802 common mode resista Response ACCEPT IN PRINCIPI	2.3bt/D2.5: is the sum of link sence Response Status W	ection pair comp	ponents with the lowest	"cabling") SuggestedRemedy Proposed text for P802 Response ACCEPT IN PRINCIPL	2.3bt/D2.5:link section Response Status W	L 3	# [<u>188</u>
Proposed text for P802 common mode resista Response ACCEPT IN PRINCIPI REF 204 Cl 145 SC 145.A.2 Thompson, Geoff Comment Type ER Current text in P802.3I two conductors (includ precisely INCORRECT	2.3bt/D2.5: is the sum of link sence Response Status W LE. P 265	L 47 Le resistance is ected in paralle	# 185 <i>Channel</i> the resistance of the I. (Note that this is	"cabling") SuggestedRemedy Proposed text for P802 Response ACCEPT IN PRINCIPL REF 204 Cl 145 SC 145.A.3 Thompson, Geoff Comment Type ER Current text in P802.38 SuggestedRemedy	2.3bt/D2.5:link section <i>Response Status</i> W _E. <i>P</i> 267	L 3 Channel)	Channe
Proposed text for P802 common mode resista Response ACCEPT IN PRINCIPI REF 204 Cl 145 SC 145.A.2 Thompson, Geoff Comment Type ER Current text in P802.3 two conductors (includ precisely INCORRECT SuggestedRemedy Proposed text for P802	2.3bt/D2.5: is the sum of link sence Response Status W LE. P 265 GraCaSI S.A. Comment Status A bt/D2.4: Channel common mod ling connectors) in a pair, connectors	L 47 le resistance is ected in paralle cabling standa on mode resista	# 185 <i>Channel</i> the resistance of the I. (Note that this is Irds.) ance is the resistance	"cabling") SuggestedRemedy Proposed text for P802 Response ACCEPT IN PRINCIPL REF 204 C/ 145 SC 145.A.3 Thompson, Geoff Comment Type ER Current text in P802.38 SuggestedRemedy Proposed text for P802 Response	2.3bt/D2.5:link section <i>Response Status</i> W LE. <i>P</i> 267 GraCaSI S.A. <i>Comment Status</i> A ot/D2.4: Compliant load (PD + 0) 2.3bt/D2.5: Compliant load (Lin <i>Response Status</i> W	L 3 Channel)	Channe
Proposed text for P802 common mode resista Response ACCEPT IN PRINCIPI REF 204 Cl 145 SC 145.A.2 Thompson, Geoff Comment Type ER Current text in P802.3 two conductors (includ precisely INCORRECT SuggestedRemedy Proposed text for P802	2.3bt/D2.5: is the sum of link sence Response Status W LE. P 265 GraCaSI S.A. Comment Status A bt/D2.4: Channel common mod ling connectors) in a pair, connec T according to the definitions in 2.3bt/D2.5: Link section commod (including connectors) in a pair, Response Status W	L 47 le resistance is ected in paralle cabling standa on mode resista	# 185 <i>Channel</i> the resistance of the I. (Note that this is Irds.) ance is the resistance	"cabling") SuggestedRemedy Proposed text for P802 Response ACCEPT IN PRINCIPL REF 204 C/ 145 SC 145.A.3 Thompson, Geoff Comment Type ER Current text in P802.34 SuggestedRemedy Proposed text for P802	2.3bt/D2.5:link section <i>Response Status</i> W LE. <i>P</i> 267 GraCaSI S.A. <i>Comment Status</i> A ot/D2.4: Compliant load (PD + 0) 2.3bt/D2.5: Compliant load (Lin <i>Response Status</i> W	L 3 Channel)	Channe

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 U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

Cl 145 SC Thompson, Geo	C 145.A.3	P 267 GraCaSI S.A.	L 10	# 189	<i>Cl</i> 145 Thompson,	SC 145.2.8 , Geoff	.5.1	P 162 GraCaSI S.A.	L 16	# 191
following rea of having a diagram. (I g end pair-to-p that it is buri points as ind SuggestedReme Proposed te load at the F	asons: 1) The different shap gather that th pair resistanc ied in the PD dicated in the edy ext for P802.3 PSE PI and a	bt/D2.5: Just provide a diag	cle is not define ad. 2) There is s sure) 3) The r s not defined as is a 3rd party d gram of a test n	d and by the implication no PI defined in this ight end of the "End to s the PD PI, I assume evice without test etwork to be used as a	(cables) <i>Suggested</i> Propos	it text in P802.3 s and connecto <i>Remedy</i> sed text for P80 g and the PD,	Bbt/D2.4:a rs) and the F 02.3bt/D2.5: <i>Respons</i>	ent Status A long with any other PD, along with the oth se Status C P 162		
Response REJECT. Out of scope C/ 145 SC	e. C 145.2.8.5	st. Response Status U P 161 GraCaSI S.A.	L 48	# [190	resista Suggested	<i>Type</i> ER at text in P802.3 inces <i>Remedy</i> sed text for P80	Bbt/D2.4: ICo	GraCaSI S.A. ent Status A n-2P-unb applies f ICon-2P-unb applie		<i>Channel</i> mon mode pair n common mode pair
defined 145	ER in P802.3bt/l .1.3	Comment Status A D2.4: Rchan-2P is the chan	nel DC loop res	Channel sistance per pairset as	Response	PT IN PRINCIF	,	se Status W		
	,	bt/D2.5: Rchan-2p is the lin 3	ik section DC lo	oop resistance per	C/ 145 Thompson,	SC 145.2.8 , Geoff	.5.1	P 162 GraCaSI S.A.	L 27	# 193
	I PRINCIPLE	Response Status W				• •	3bt/D2.4:u	ent Status A nder worst case co unbalance.	nditions of char	Channel nnel pair to pair
REF 204						,			conditions of li	nk section pair to pair
					Response ACCEF	PT.	Respons	se Status W		

C/ 145 SC 145.2.8.5.1 P 163 L 6 # 194 Thompson, Geoff GraCaSI S.A. GraCaSI S.S. GraCaSI S.S.	C/ 145 SC 145.2.8.5.1 P 163 L 31 # 197 Thompson, Geoff GraCaSI S.A. GraCaSI S.A.<
Comment Type ER Comment Status A Channel	Comment Type ER Comment Status A Channe
Current text in P802.3bt/D2.4: Low channel resistance conditions. All resistances within 1% range.	Current text in P802.3bt/D2.4:described in Figure 145-22 and as defined by the pair-to- pair channel resistance unbalance requirement for
SuggestedRemedy	SuggestedRemedy
Proposed text for P802.3bt/D2.5: Low link section resistance conditions. All resistances within 1% range.	Proposed text for P802.3bt/D2.5:described in Figure 145-22 and as defined by the link section pair-to-pair resistance unbalance requirement for
Response Response Status W	Response Response Status W
ACCEPT.	ACCEPT IN PRINCIPLE.
C/ 145 SC 145.2.8.5.1 P 163 L 13 # 195 Thompson, Geoff GraCaSI S.A.	REF 204
	Cl 145 SC 145.2.8.5.1 P 163 L 45 # 198
Comment Type ER Comment Status A Channel	Thompson, Geoff GraCaSI S.A.
Current text in P802.3bt/D2.4: High channel resistance conditions. All resistances within 1% range.	Comment Type ER Comment Status R Pres: Darshan12
within 1% range. Response Response Status W ACCEPT IN PRINCIPLE.	pair resistance" is in this context. What are the measurement end points for this "total channel" and what is the relevance to the specification at hand? We have no control of "total channel common mode pair resistance" other than by the independent specification of each of the 3 elements, PSE, Link Section and PD. Derivations of how we came to the values of each have no place in the specifications of each of the two separate devices.)
REF 204	SuggestedRemedy
C/ 145 SC 145.2.8.5.1 P 163 L 26 # 196 Thompson, Geoff GraCaSI S.A. GraCaSI S.S. GraCaSI S.S.	Proposed text for P802.3bt/D2.5: If we are to include these derivations they should be in an informative annex.
Comment Type ER Comment Status A Channel	Response Response Status U
Current text in P802.3bt/D2.4:common mode channel resistances in the powered pairs of the same polarity from the PSE PI to the PD PI per the model	REJECT.
Suggested Remedy	No remedy supplied
Proposed text for P802.3bt/D2.5:common mode link section resistances in the powered pairs of the same polarity per the model (The current text is actually OK because the span of the channel is specified. I would prefer to use link section here for consistency.)	
Response Response Status W	
ACCEPT IN PRINCIPLE.	
REF 204	

X 145 SC 145.2.8.5.1 P 164 L 3 # 199 hompson, Geoff GraCaSI S.A. GraCaSI S.S. GraCaSI S.S. GraCaSI S.S. GraCaSI S.S. GraCaSI S.S. GraCaSI S.S.	C/ OO SC O P L # 202 Thompson, Geoff GraCaSI S.A. GraCaSI S.A. </th
Comment Type ER Comment Status A Channel Current text in P802.3bt/D2.4: Channel	Comment Type E Comment Status D Withdrawn Draft D1.8 is prepared for Task Force Review.
SuggestedRemedy Proposed text for P802.3bt/D2.5: Link Section	SuggestedRemedy Ignore this comment, comment text can not be deleted on input sheet.
Response Response Status W ACCEPT IN PRINCIPLE.	Proposed Response Response Status Z REJECT.
REF 204	This comment was WITHDRAWN by the commenter.
C/ 145 SC 145.2.8.5.1 P 164 L 10 # 200 hompson, Geoff GraCaSI S.A.	C/ 145 SC 145.1.3 P 101 L 31 # 203 Thompson, Geoff GraCaSI S.A. GraCaSI S.A. Figure 100
Comment Type ER Comment Status R Pres: Darshan12 Current text in P802.3bt/D2.4: The box on the far right in the figure is undefined. Is it a PD? Is it a PD minus some of its resistance? Is it a PD minus all of its resistence? Is it something else? A test device perhaps. Where is it defined? Pres: Darshan12	Comment Type ER Comment Status R Channe Current text in P802.3bt/D2.4: Channel pairset maximum DC loop resistance (RCh, O) SuggestedRemedy
SuggestedRemedy Proposed text for P802.3bt/D2.5: ????	Proposed text for P802.3bt/D2.5: Link section pairset maximum DC loop resistance (RLS, O) <i>Response Response Status</i> W
Response Response Status U REJECT.	REJECT.
	· · · · · · · · · · · · · · · · · · ·
REJECT.	REJECT.
REJECT. This is out of scope and no remedy is provided. Yair's response to the comment explaining what the box is is shown in darshan_12_0517. 1/145 SC 145.2.8.5.1 P 164 L 17 201	REJECT. There is no technical reason to change the parameter name. Cl 145 SC 145.1.3.2 P 102 L 42 # 204 Thompson, Geoff GraCaSI S.A.
REJECT. This is out of scope and no remedy is provided. Yair's response to the comment explaining what the box is is shown in darshan_12_0517. H 145 SC 145.2.8.5.1 P 164 L 17 # 201 hompson, Geoff GraCaSI S.A. comment Type ER Comment Status R Pres: Darshan12 Current text in P802.3bt/D2.4: "End-to-end pair-to-pair resistance" The "ends" as used in	REJECT. There is no technical reason to change the parameter name. Cl 145 SC 145.1.3.2 P 102 L 42 # 204 Thompson, Geoff GraCaSI S.A. Comment Type ER Comment Status A Pres: Darshan14
REJECT. This is out of scope and no remedy is provided. Yair's response to the comment explaining what the box is is shown in darshan_12_0517. C/ 145 SC 145.2.8.5.1 P 164 L 17 # 201 C/ 145 SC 145.2.8.5.1 P 164 L 17 # 201 Comment Type ER Comment Status R Pres: Darshan12	REJECT. There is no technical reason to change the parameter name. Cl 145 SC 145.1.3.2 P 102 L 42 # 204 Thompson, Geoff GraCaSI S.A. Thompson, Geoff GraCaSI S.A. Comment Type ER Comment Status A Pres: Darshan14 Current text in P802.3bt/D2.4: 145.1.3.2 Channel requirements SuggestedRemedy
REJECT. This is out of scope and no remedy is provided. Yair's response to the comment explaining what the box is is shown in darshan_12_0517. Z/ 145 SC 145.2.8.5.1 P 164 L 17 # 201 hompson, Geoff GraCaSI S.A. Comment Type ER Comment Status R Pres: Darshan12 Current text in P802.3bt/D2.4: "End-to-end pair-to-pair resistance" The "ends" as used in this evaluation are not defined, not defined as being accessible and under normal circumstances don't even come from the same vendor. Therefore I don't have a clue how	REJECT. There is no technical reason to change the parameter name. Cl 145 SC 145.1.3.2 P 102 L 42 # 204 Thompson, Geoff GraCaSI S.A. Comment Type ER Comment Status A Pres: Darshan14 Current text in P802.3bt/D2.4: 145.1.3.2 Channel requirements SuggestedRemedy Proposed text for P802.3bt/D2.5: 145.1.3.2 Link section requirements Response Response Status W

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 U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

C/ 145 SC 145.1.3.2 P 102 L 44 # 205 Thompson, Geoff GraCaSI S.A. GraCaSI S.S. GraCaSI S.S. <td>C/ 145 SC 145.2.7 P 150 L 20 # 207 Thompson, Geoff GraCaSI S.A. GraCaSI S.A.</td>	C/ 145 SC 145.2.7 P 150 L 20 # 207 Thompson, Geoff GraCaSI S.A. GraCaSI S.A.					
	Comment Type ER Comment Status A Channel Current text in P802.3bt/D2.4: There are 4 uses of the term "channel" in the following lines:					
Current text in P802.3bt/D2.4: Within Clause 145 and its annexes, "channel", as defined in 1.4.134, refers to the electrical path on which the power is transferred, i.e., the link section.	20, 36, 46, 48.					
SuggestedRemedy	SuggestedRemedy					
Proposed text for P802.3bt/D2.5: Within Clause 145 and its annexes, the term link section	Proposed text for P802.3bt/D2.5: Replace each instance of "channel" with "link section".					
refers to the point-to-point medium connection between two and only two active Power Interfaces (PIs).	Response Response Status W					
Response Response Status W	ACCEPT IN PRINCIPLE.					
ACCEPT IN PRINCIPLE.	REF 204					
REF 204	C/ 145 SC 145.2.7.1 P 154 L 3 # 208					
C/ 145 SC 145.1.3.2 P 102 L 47 # 206	Thompson, Geoff GraCaSI S.A.					
Thompson, Geoff GraCaSI S.A. $P 102 Lar 47 mtext{#} 206$	Comment Type ER Comment Status A Channe					
Comment Type ER Comment Status A Channel Current text in P802.3bt/D2.4: Link sections for all Types shall comply with the resistance unbalance requirements for twisted-pair cabling as specified in ISO/IEC 11801:2002 and	Current text in P802.3bt/D2.4: NOTE-In a properly operating system, the port may or may not discharge to the VMark range due to the combination of channel and PD capacitance and PD current loading.					
ANSI/TIA-568-C.2. Refer to Annex 33A for more information including 4-pair operation	SuggestedRemedy					
channel requirements for pair-to-pair resistance unbalance.	Proposed text for P802.3bt/D2.5: NOTE-In a properly operating system, the port may or may not discharge to the VMark range due to the combination of the overall channel and					
SuggestedRemedy	PD capacitance and PD current loading.					
Proposed text for P802.3bt/D2.5: Link sections for all Types shall comply with the resistance unbalance requirements for twisted-pair cabling as specified in ISO/IEC 11801:2002 and ANSI/TIA-568-C.2. Refer to Annex 33A for more information including the requirements for 4-pair operation pair-to-pair resistance unbalance.	Response Response Status C ACCEPT.					
Response Response Status C	C/ 145 SC 145.2.7.2 P 155 L 13 # 209					
ACCEPT IN PRINCIPLE.	Thompson, Geoff GraCaSI S.A.					
Change to	Comment Type ER Comment Status A Channe					
Change to: Link sections for all Types shall comply with the intra-pair resistance unbalance requirements for twisted-pair cabling as specified in ISO/IEC 11801:2002 and ANSI/TIA-	Current text in P802.3bt/D2.4:allocate enough power to cope with increases in channel resistance due to temperature increase.					
568-C.2. Refer to Annex 145A for more information including the requirements for pair-to-	SuggestedRemedy					
pair resistance unbalance when operating over 4 pairs.	Proposed text for P802.3bt/D2.5:allocate enough power to cope with increases in the overall channel resistance due to temperature increase.					
	Response Response Status C					

ACCEPT IN PRINCIPLE.

Change to: allocate enough power to cope with increases in the link section resistance due to temperature increase.

C/ 145 SC 145.2.8.5 Thompson, Geoff	P 161 GraCaSI S.A.	L 22	# 210	C/ 30 Tuenge, Ja		30.12.2.1	.18z4	P 50 Pacific North	L 10	# 212
·			Ohammal	0		-	0		iwest nati	
Comment Type ER	Comment Status A t/D2.4: Rchan is the channel lo	on registance a	Channel	Comment		T		ent Status A	of at loast 20 n i	Pres: Yseboodt6 s required; however, 2^-
SuggestedRemedy	3bt/D2.5: Rchan is the link sec			n reso suited typical	lution d than "A lly spec	loes not e Accuracy" ;ified as ±	ensure accu in "aLldpXo the sum of	racy of 2^-n. Sigr dot3LocMeasVolt a percentage (of	nificant bits ("SigE ageAccuracy." A	Bits") seems better Iso, accuracy is) and a fixed tolerance.
Response	Response Status W			Suggested					,	,,
ACCEPT IN PRINCIPL	, Е.					•	ocMeasVolt	ageAccuracy" to	"aLldpXdot3LocN	/leasVoltageSigBits"
REF 204				accura	acy and	l resolutio	n are calcul	lated from signific	cant bits. This wo	7b). Also clarify how uld help to ensure a
C/ 00 SC 0 Tremblay, David	P Hewlett Packard	L I Enter	# 211	examp	ole, sho	uld 7-bit i	esolution m		y relative to readi	of accuracy claims. For ing or full scale? Is
Comment Type E TODO 1-6 Topics:	Comment Status A	Linei	Pres: Tremblay1	Response		PRINCIPI	Respons	se Status C	< , ,	
Figure out how other cla How to address use of								asurements.pdf uncertainty fields	s to 16 bits.	
SuggestedRemedy See tremblay_01_0517							s comments 8, 229, 230		216, 217, 218, 2 ⁻	19, 220, 221, 222, 223,
Response ACCEPT IN PRINCIPL	Response Status C E.			<i>Cl</i> 30 Tuenge, Ja		30.12.2.1	.18z5	P 50 Pacific North	L 20 west Nati	# 213
adopt tremblay_01_051	7.pdf			<i>Comment</i> Same		T ent for Cu		ent Status A Voltage above.		Pres: Yseboodt6
				Suggested Same			ent as for V	oltage above.		
				Response ACCE		PRINCIPI	,	se Status C		
				OBE b	oy 212					
				### ##	## ###					
						2 has the PRINCIPI	following re _E.	esponse:		
								asurements.pdf uncertainty fields		

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 U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

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Cl 30 SC 30.12.2.1.18z6 P 50 L 29 Tuenge, Jason Pacific Northwest Nati	# 214	C/ 30 SC 30.12.2.1.18z8 P 50 L 47 Tuenge, Jason Pacific Northwest Nati	# 216					
Comment Type T Comment Status A Same comment for Power as for Voltage above.	Pres: Yseboodt6	Comment Type E Comment Status A Pres: No units are specified for aLldpXdot3LocVoltageMeasurement. Pres: Pres:						
SuggestedRemedy Same change for Power as for Voltage above.		SuggestedRemedy Add reference to Table 79-7b-Measurements.						
Response Response Status C ACCEPT IN PRINCIPLE.		Response Response Status C ACCEPT IN PRINCIPLE.						
OBE by 212		OBE by 212						
### ### ###		### ### ###						
Comment 212 has the following response: ACCEPT IN PRINCIPLE.		Comment 212 has the following response: ACCEPT IN PRINCIPLE.						
adopt yseboodt_06_0517_IIdpmeasurements.pdf with editorial license to expand all uncertainty fields to 16 bits.		adopt yseboodt_06_0517_lldpmeasurements.pdf with editorial license to expand all uncertainty fields to 16 bits.						
C/ 30 SC 30.12.2.1.18z7 P 50 L 38 Tuenge, Jason Pacific Northwest Nati	# 215	C/ 30 SC 30.12.2.1.18z9 P 51 L 4 Tuenge, Jason Pacific Northwest Nati	# 217					
Comment Type T Comment Status A Same comment for Energy as for Voltage above.	Pres: Yseboodt6	Comment Type E Comment Status A Same comment for Current as for Voltage above.	Pres: Yseboodt6					
SuggestedRemedy Same change for Energy as for Voltage above.		SuggestedRemedy Same change for Current as for Voltage above.						
Response Response Status C ACCEPT IN PRINCIPLE.		Response Response Status C ACCEPT IN PRINCIPLE.						
OBE by 212		OBE by 212						
### ###		### ###						
Comment 212 has the following response: ACCEPT IN PRINCIPLE.		Comment 212 has the following response: ACCEPT IN PRINCIPLE.						
adopt yseboodt_06_0517_IIdpmeasurements.pdf with editorial license to expand all uncertainty fields to 16 bits.		adopt yseboodt_06_0517_lldpmeasurements.pdf with editorial license to expand all uncertainty fields to 16 bits.						

C/ 30 SC 30.12.2.1.18 Tuenge, Jason	2 10 <i>P</i> 51 Pacific Nort	L 13 thwest Nati	# 218		SC 30.12.3 n	.1.18z4	P 61 Pacific Nortl	L 1 hwest Nati	# 220
Comment Type E Same comment for Power aLldpXdot3LocPDReques SuggestedRemedy Same change for Power a Response F ACCEPT IN PRINCIPLE. OBE by 212 ### ### Comment 212 has the foll ACCEPT IN PRINCIPLE. adopt yseboodt_06_0517_ with editorial license to ex	Tuenge, Jason Pacific Northwest Nati Comment Type T Comment Status A Pres: Ysebood See related comments regarding Local subclause 30.12.2.1.18z4 above. SuggestedRemedy See related changes proposed for Local subclause 30.12.2.1.18z4 above. Response Response Status C ACCEPT IN PRINCIPLE. OBE by 212 ### ### Comment 212 has the following response: ACCEPT IN PRINCIPLE. adopt yseboodt_06_0517_lldpmeasurements.pdf with editorial license to expand all uncertainty fields to 16 bits.								
Cl 30 SC 30.12.2.1.18 Tuenge, Jason Comment Type E Same comment for Energy SuggestedRemedy Same change for Energy a	Pacific Nort Pacific Nort Comment Status A v as for Voltage above. is for Voltage above. esponse Status C owing response: Ildpmeasurements.pdf	L 22	# 2 <u>19</u> Pres: Yseboodt6	Tuenge, Jaso Comment Typ Same cor SuggestedRe Same cha Response ACCEPT OBE by 2 ### ### # ACCEPT adopt yse	De T mment for C medy ange for Cur IN PRINCIF 212 ### t 212 has th IN PRINCIF eboodt_06_0	Comme Current as for rrent as for V Respons PLE. PLE. D517_IIdpme	P 61 Pacific North Pacific Nor		# 221 Pres: Yseboodt6

C/ 30 SC 30.12.3.1.18z6 P 61 L 22 Tuenge, Jason Pacific Northwest Nati	# 222	C/ 30 SC 30.12.3.1.18z8 P 61 L 42 Tuenge, Jason Pacific Northwest Nati	# 224
Comment Type T Comment Status A Same comment for Power as for Voltage above.	Pres: Yseboodt6	Comment Type E Comment Status A No units are specified for aLldpXdot3RemVoltageMeasurement.	Pres: Yseboodt6
SuggestedRemedy Same change for Power as for Voltage above.		SuggestedRemedy Add reference to Table 79-7b-Measurements.	
Response Response Status C ACCEPT IN PRINCIPLE.		Response Response Status C ACCEPT IN PRINCIPLE.	
OBE by 212		OBE by 212	
### ### ###		### ### ###	
Comment 212 has the following response: ACCEPT IN PRINCIPLE.		Comment 212 has the following response: ACCEPT IN PRINCIPLE.	
adopt yseboodt_06_0517_lldpmeasurements.pdf with editorial license to expand all uncertainty fields to 16 bits.		adopt yseboodt_06_0517_lldpmeasurements.pdf with editorial license to expand all uncertainty fields to 16 bits.	
C/ 30 SC 30.12.3.1.18z7 P 61 L 32 Tuenge, Jason Pacific Northwest Nati	# 223	C/ 30 SC 30.12.3.1.18z9 P 61 L 51 Tuenge, Jason Pacific Northwest Nati	# 225
Comment Type T Comment Status A Same comment for Energy as for Voltage above.	Pres: Yseboodt6	Comment Type E Comment Status A Same comment for Current as for Voltage above.	Pres: Yseboodt6
SuggestedRemedy Same change for Energy as for Voltage above.		SuggestedRemedy Same change for Current as for Voltage above.	
Response Response Status C ACCEPT IN PRINCIPLE.		Response Response Status C ACCEPT IN PRINCIPLE.	
OBE by 212		OBE by 212	
### ### ###		### ### ###	
Comment 212 has the following response: ACCEPT IN PRINCIPLE.		Comment 212 has the following response: ACCEPT IN PRINCIPLE.	
adopt yseboodt_06_0517_lldpmeasurements.pdf with editorial license to expand all uncertainty fields to 16 bits.		adopt yseboodt_06_0517_lldpmeasurements.pdf with editorial license to expand all uncertainty fields to 16 bits.	

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 U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

C/ 30 SC 30.12.3.1.18z10 P 62 L 7 Tuenge, Jason Pacific Northwest Nati	# 226	C/ TableSC Table 79-7bP 86L 50#228Tuenge, JasonPacific Northwest Nati
Comment Type E Comment Status A Same comment for Power as for Voltage above. SuggestedRemedy	Pres: Yseboodt6	Comment Type E Comment Status A Pres: Yseboodt6 See related comments regarding subclause 30.12.2.1.18z4 above. Also clarify that the integer (rather than each bit) should be 1 to 16. Pres: Yseboodt6
Same change for Power as for Voltage above.		SuggestedRemedy Change "Voltage accuracy" to "Voltage resolution." Also change "these bits" to "this
Response Response Status C ACCEPT IN PRINCIPLE.		integer." Response Response Status C
OBE by 212		ACCEPT IN PRINCIPLE. OBE by 212
Comment 212 has the following response: ACCEPT IN PRINCIPLE.		### ###
adopt yseboodt_06_0517_lldpmeasurements.pdf with editorial license to expand all uncertainty fields to 16 bits.	# 607	Comment 212 has the following response: ACCEPT IN PRINCIPLE. adopt yseboodt_06_0517_IIdpmeasurements.pdf with editorial license to expand all uncertainty fields to 16 bits.
C/ 30 SC 30.12.3.1.18z11 P 62 L 16 Tuenge, Jason Pacific Northwest Nati	# 227	C/ Table SC Table 79-7b P 86 L 52 # 229
Comment Type E Comment Status A Same comment for Energy as for Voltage above. SuggestedRemedy Same change for Energy as for Voltage above.	Pres: Yseboodt6	Tuenge, Jason Pacific Northwest Nati Comment Type E Comment Status A Pres: Yseboodt6 Same comment for Current as for Voltage above. Supported Parageter Supported Parageter
Response Response Status C ACCEPT IN PRINCIPLE.		SuggestedRemedy Same change for Current as for Voltage above. Response Response Status C
OBE by 212		ACCEPT IN PRINCIPLE.
### ### ### Comment 212 has the following response: ACCEPT IN PRINCIPLE.		### ###
adopt yseboodt_06_0517_lldpmeasurements.pdf with editorial license to expand all uncertainty fields to 16 bits.		Comment 212 has the following response: ACCEPT IN PRINCIPLE. adopt yseboodt_06_0517_IIdpmeasurements.pdf with editorial license to expand all uncertainty fields to 16 bits.

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 U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

Comment ID 229

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C/ Table SC Table 79-7b Tuenge, Jason	P 87 Pacific North	L 5 west Nati	# 230	<i>Cl</i> 145 Walker, Dyla	SC 145.3.2	<i>P</i> 172 Cisco	L 16	# 232
0	omment Status A is for Voltage above.		Pres: Yseboodt6	Comment T	/pe TR	Comment Status A mented to be insensitive to t	the polarity of the	PD Types
SuggestedRemedy Same change for Power as Response Re ACCEPT IN PRINCIPLE. OBE by 212 ### ### ###	for Voltage above. Sponse Status C			"either" any pola <i>SuggestedR</i> Change	could be constru arity on the other cemedy	ain the word "either" and sh ued as "one or the other", a r Mode. mented to be insensitive to t	nd polarity insens	sitivity cannot assume
Comment 212 has the follov ACCEPT IN PRINCIPLE. adopt yseboodt_06_0517_II						sitive to the polarity of the polarity of the polarity on the other mode. Response Status C		ach mode regardless of
with editorial license to expa	ind all uncertainty fields	s to 16 bits.		ACCEP	Т.	Response Status C		
Cl Table SC Table 79-7b Tuenge, Jason	Р 87 Pacific North	L 8 west Nati	# 231	This cor	nment resolves	comment: 56		
Comment Type E C See related comments rega integer (rather than each bit SuggestedRemedy Same change for Energy as) should be 1 to 32.	2.1.18z7 above	Pres: Yseboodt6 Also clarify that the					
6 67	sponse Status C							
OBE by 212								
### ### ###								
Comment 212 has the follow ACCEPT IN PRINCIPLE.	ving response:							
adopt yseboodt_06_0517_I with editorial license to expa		s to 16 bits.						

C/ 145 SC 145.2.5.1.1 Walker, Dylan	<i>P</i> 112 Cisco	L 37	# 233	C/ 145 SC 145.2. Walker, Dylan	.4 P 114 Cisco	L 20	# 235
	omment Status A		PSE SD	Comment Type TR	Comment Status A		PSE SI
alt_pri can be assigned in T strengthen it and for readab better.	EST_MODE. Also, the		within its sentence to	Stating that the othe for 4-pair operation a	Alternative is assigned the S nd misleading for 2-pair opera of Primary despite a nonexiste	ation, where the o	ive role is redundant
(D2.3 TODO - Comment #2	47)			(D2.3 TODO - Comn	nent #247)		
SuggestedRemedy				SuggestedRemedy			
Change: "In the state diagram, Altern during 4-pair operation. In a reversed as long as the role other state. In the state diag the Secondary Alternative."	ny implementation, the s are established in IDL	behaviors of the E and shall be n	Alternatives may be naintained in every	diagram." "a: Alternative A is a	elect which Alternative assum ssigned Primary, and Alterna ssigned Primary, and Alterna	tive B is assigned	Secondary."
To: "In the state diagram, each implementation, the roles of and be maintained in every are named Primary Alternat Response Re	the Alternatives shall b other state. In the state	e established in diagram, the role	IDLE or TEST_MODE	state diagram." "a: Alternative A is a B is assigned Secon	ssigned Primary Alternative.	When operating o	ver 4 pairs, Alternative
ACCEPT.				Response ACCEPT IN PRINCI	Response Status C		
C/ 145 SC 145.2.5.1.1 Walker, Dylan	<i>P</i> 112 Cisco	L 41	# 234	Change to:	LE.		
Since another comment see note to provide a hint to the (without going into the gory	reader that Alternative details) seems appropri	role reversal is p		state diagram. A: Alternative A assu Alternative B assum B: Alternative B assu	elect which Alternative assum mes the role of Primary Altern as the role of Secondary Alter mes the role of Primary Altern as the role of Secondary Alter	native. When oper native. native. When oper	rating over 4 pairs,
(D2.3 TODO - Comment #2	47)				······································		
SuggestedRemedy Insert: "NOTE-During 4-pair operat Alternative B in IDLE in orde		y to swap the rol	es of Alternative A and				
Response Re ACCEPT.	esponse Status C						

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C/ 145 SC 145.2.5.4	<i>P</i> 119	L 4	# 236	C/ 145 SC 145.2.5.7		L 6	# 238
Valker, Dylan	Cisco			Walker, Dylan	Cisco		
Comment Type TR Via other comments, alt	Comment Status A t_pri assignment is clarified/o	corrected and the	PSE SD e ping pong behavior is	Comment Type TR alt_pri should be user	Comment Status A defined in TEST_MODE.		PSE SL
covered by a note, so e	explicitly showing alternation	is no longer requ	lired.				
(D2.3 TODO - Commer	nt #247)			(D2.3 TODO - Comme	ent #247)		
SuggestedRemedy Delete "pingpong_en" v				SuggestedRemedy In TEST_MODE:			
Response ACCEPT.	Response Status W			Change: "alt_pri <= a"			
C/ 145 SC 145.2.5.7	P 129	L 13	# 237	To: "alt_pri <= user defined	d"		
Walker, Dylan	Cisco			Response	Response Status W		
Comment Type TR	Comment Status A		PSE SD	ACCEPT.			
(D2.3 TODO - Commer SuggestedRemedy In IDLE:	nt #247)				Cisco Comment Status A other references to safety star		
In IDLE:				provide the option to c 1 compliance.	onform to IEC 62368-1, but it	s jumping the gu	in to require IEC 62368-
Change: "IF(pingpong_en) THEN IF(alt_pri=a) THEN	N			, (D2.3 TODO - Comme	ent #332)		
alt_pri <= b ELSE				SuggestedRemedy See "Walker_1_0517_	_rev_4.pdf"		
alt_pri <=a END END"				Response ACCEPT IN PRINCIPI	Response Status C _E.		
То:				OBE by 240			
"alt_pri <= user defined END"				### ### ###			
Response ACCEPT.	Response Status W			Comment 240 has the ACCEPT IN PRINCIPI			
				adopt Walker_1_0517	_rev_4.pdf		

145 SC 145.4.1 P 204 L 16 # 240 alker, Dylan Cisco	Cl 145 SC 145. Walker, Dylan	.4.1 P 2 Cisco	2 04 L 22	# 242
omment TypeTRComment StatusAPres: Walker1Need to add the pertinent subclause for IEC 62368-1.	Comment Type TF It's jumping the gu subclause for IEC	un to require IEC 62368-1		<i>Pres: Walker</i> d to add the pertinent
(D2.3 TODO - Comment #332)	Subclause for IEC	02300-1.		
iggestedRemedy	(D2.3 TODO - Co	mment #332)		
See "Walker_1_0517_rev_4.pdf"	SuggestedRemedy			
sponse Response Status C	See "Walker_1_0	517_rev_4.pdf"		
ACCEPT IN PRINCIPLE.	Response ACCEPT IN PRIN	Response Status	С	
adopt Walker_1_0517_rev_4.pdf	OBE by 240			
This comment resolves comments: 68, 69, 72, 121, 122, 125, 239, 241, 242, 243, 244, 245, 246, 247	### ### ###			
145 SC 145.4.1 P 204 L 20 # 241	Comment 240 ha	s the following response:		
alker, Dylan Cisco	ACCEPT IN PRIN			
omment Type TR Comment Status A Pres: Walker1	adopt Walker_1_(0517_rev_4.pdf		
It's jumping the gun to require IEC 62368-1 compliance. Also, need to add the pertinent subclause for IEC 62368-1.	C/ 145 SC 145			# 243
(D2.3 TODO - Comment #332)	Walker, Dylan	Cisco		
iggestedRemedy	Comment Type TF			Pres: Walker
See "Walker_1_0517_rev_4.pdf"	subclause for IEC	un to require IEC 62368-1 62368-1.	compliance. Also, nee	d to add the pertinent
esponse Response Status C	(D2.3 TODO - Co	mment #332)		
ACCEPT IN PRINCIPLE.	SuggestedRemedy	······		
OBE by 240	See "Walker_1_0	517 rev 4.pdf"		
	Response	Response Status	C	
### ### ###	ACCEPT IN PRIN	1	0	
Comment 240 has the following response: ACCEPT IN PRINCIPLE.	OBE by 240			
adopt Walker_1_0517_rev_4.pdf	### ### ###			
	Comment 240 ha ACCEPT IN PRIN	s the following response: ICIPLE.		
	adopt Walker_1_(0517 rev 4 ndf		

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 U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

Cl 145 Walker, Dyl	SC 145.4.1 lan	P 204 Cisco	L 27	# 244	C/ 145 Walker, Dy	SC 145.4.1 lan	.1.2	<i>P</i> 205 Cisco	L 19	# 245
Comment 1		Comment Status A		Pres: Walker1	Comment		Commen	t Status A		Pres: Walker
	ping the gun to use for IEC 623	require IEC 62368-1 complia 68-1.	nce. Also, need	to add the pertinent				nay be found in a tional codes re		60950-1 and IEC
(D2.3 T	ODO - Comme	ent #332)			Senter	ice can be slig	htly modified t	o clarify that the	reference to "Se	ction 6" only applies to
Suggestedl	Remedy				IEC 60	950-1.				
See "N	/alker_1_0517_	_rev_4.pdf"			(D2.3 T	ODO - Comm	ent #332)			
Response		Response Status C			Suggested	Remedy				
ACCEF	PT IN PRINCIPI	_E.			See "V	/alker_1_0517	_rev_4.pdf"			
OBE by	y 240				Response		Response	Status C		
	, , , , , , ,				ACCE	PT IN PRINCI	PLE.			
### ##;	# ###				OBE b	v 240				
	ent 240 has the PT IN PRINCIPI	following response: _E.			### ##	-				
adopt V	Walker_1_0517	_rev_4.pdf				ent 240 has th PT IN PRINCI		sponse:		
					adopt \	Walker_1_051	7_rev_4.pdf			
					C/ 145	SC 145.7.3	.8	P 262	L 19	# 246
					Walker, Dy	lan		Cisco		
					Comment T PICS E			t Status A nclude the optio	n for IEC 62368-	Pres: Walker
					(D2.3]	ODO - Comm	ent #332)			
					Suggested		,			
						/alker_1_0517	_rev_4.pdf"			
					Response			Status C		
					ACCE	PT IN PRINCI				
					OBE b	y 240				
					### ##	# ###				
						ent 240 has th PT IN PRINCI		ponse:		
					adopt \	Walker_1_051	7_rev_4.pdf			
YPE: TR/	technical require	ed ER/editorial required GR	aeneral required	T/technical E/editorial G/	general			Comm	ent ID 246	Page 65 of 80

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

Cl 145 SC 145.7. Walker, Dylan	3.8 P 262 Cisco	L 38	# 247	C/ 1 Walker, Dyl	SC 1.4.254 an	P 24 Cisco	L 33	# 249
	Comment Status A Is to be updated to include the	option for Power	Pres: Walker1 Source Class 2 in	Comment 7 A link s		Comment Status A s a single PSE to a single PD i	in a valid PoE s	Definitions system.
accordance with IEC (D2.3 TODO - Com SuggestedRemedy See "Walker_1_051 Response ACCEPT IN PRINC OBE by 240	C 62368-1. ment #332) 7_rev_4.pdf" <i>Response Status</i> C			(D2.3 T <i>Suggestedl</i> Change "The po To:	ODO - Comme Remedy e: ortion of the link ortion of the link	nts #271, #255, and #308) segment from a PSE to the P segment from the PSE to the <i>Response Status</i> C	PD."	
ACCEPT IN PRINC adopt Walker_1_05 C/ 145 SC 145.2. Walker, Dylan Comment Type TR	17_rev_4.pdf	L 37	# 248 Connection Check	them." This po	<i>ype</i> ER er system cons int needs to be	<i>P</i> 101 Cisco <i>Comment Status</i> A ists of a single PSE, a single F further emphasized. nts #271, #255, and #308)	L 21 PD, and the link	# 250 Editoria
return invalid in a ge (D2.3 TODO - Com SuggestedRemedy Change: "PSEs that will deliv the classification of connected to a sing both pairsets are inv To: "PSEs that will deliv the classification of	eneral sense. ments #271, #255, and #308) er power on both pairsets shall a PD as specified in 145.2.7 to le-signature PD configuration, a	complete a coni determine if boti a dual-signature complete a coni determine if the	nection check prior to h pairsets are PD configuration, or nection check prior to PSE is connected to a	them." To: "A valic	e: er system cons I power system ting them." PT.	sts of a single PSE, a single F consists only of a single PSE, <i>Response Status</i> C		, j
ACCEPT.	Response Status W			Reject: abstain	1			

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 U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

Cl 145 SC 145.2.5.6 Walker, Dylan	5 P 125 Cisco	L 27	# 251	C/ 145 SC 145.1 Yseboodt, Lennart	P 99 Philips	L 17	# 254
Comment Type ER Function "do_cxn_chk' SuggestedRemedy	Comment Status A " is not alphabetized correctly	<i>י</i> .	Editorial	<i>Comment Type</i> E "This clause specifie Type 2 devices."	Comment Status A is Type 3 and Type 4 devices a	and their interaction	<i>Editorial</i> on with Type 1 and
,	e 127 before function "do_de	tect_pri".		Could be read as the	ough only the interaction is spe	ecified.	
Response	Response Status W			SuggestedRemedy	5 , 1		
ACCEPT.					s Type 3 and Type 4 devices a	as well as their int	teraction with Type 1
C/ 1 SC 1 Yseboodt, Lennart	P 24 Philips	L 3	# 252	Response ACCEPT.	Response Status C		
Comment Type ER Editor's Note: The follo	Comment Status A wing clause 1.3 is a place ho	older for new con	<i>Editorial</i> Itent. If no new	This comment resolu	ves comment: 100		
references are added	prior to entering sponsor ballo	ot, this clause wil	II be deleted from the	C/ 145 SC 145.1.3	3 P 101	L 21	# 255
ballot draft.				Yseboodt, Lennart	Philips		
SuggestedRemedy	added. Remove this Editor's I Response Status W	Note.		Comment Type ER "PSEs and PDs may	Philips <i>Comment Status</i> A be of a Type defined in Claus	se 33, Clause 145	
SuggestedRemedy A reference has been a		Note.		Comment Type ER "PSEs and PDs may both."	Comment Status A	·	
SuggestedRemedy A reference has been a Response		Note.	# [253	Comment Type ER "PSEs and PDs may both." Could be interpreted here.	Comment Status A be of a Type defined in Claus	·	i, or a combination of
SuggestedRemedy A reference has been a Response ACCEPT.	Response Status W		# 253	Comment Type ER "PSEs and PDs may both." Could be interpreted here. SuggestedRemedy	Comment Status A be of a Type defined in Claus to mean a device can be mult	tiple Types, which	, or a combination of
SuggestedRemedy A reference has been a Response ACCEPT. C/ 145 SC 145 Yseboodt, Lennart Comment Type ER	Response Status W	L1	Editorial	Comment Type ER "PSEs and PDs may both." Could be interpreted here. SuggestedRemedy	Comment Status A be of a Type defined in Claus	tiple Types, which	, or a combination of
SuggestedRemedy A reference has been a Response ACCEPT. Cl 145 SC 145 Yseboodt, Lennart Comment Type ER We have 77 occurance	Response Status W P 99 Philips Comment Status A	L1	Editorial	Comment Type ER "PSEs and PDs may both." Could be interpreted here. SuggestedRemedy "The PSE and PD ca combination."	Comment Status A be of a Type defined in Claus to mean a device can be mult	tiple Types, which use 33 or Clause	, or a combination of
SuggestedRemedy A reference has been a Response ACCEPT. Cl 145 SC 145 Yseboodt, Lennart Comment Type ER We have 77 occurance SuggestedRemedy	Response Status W P 99 Philips Comment Status A es of 'class event' and 7 occu	L1	Editorial	Comment Type ER "PSEs and PDs may both." Could be interpreted here. SuggestedRemedy "The PSE and PD ca combination."	Comment Status A y be of a Type defined in Claus to mean a device can be mult an be of a Type defined in Clau	tiple Types, which use 33 or Clause	, or a combination of
SuggestedRemedy A reference has been a Response ACCEPT. Cl 145 SC 145 Yseboodt, Lennart Comment Type ER We have 77 occurance SuggestedRemedy Replace 'classification Response	Response Status W P 99 Philips Comment Status A	L1	Editorial	Comment Type ER "PSEs and PDs may both." Could be interpreted here. SuggestedRemedy "The PSE and PD ca combination." (this was tricky to for	Comment Status A v be of a Type defined in Claus to mean a device can be mult an be of a Type defined in Claus mulate as intended, please ch <i>Response Status</i> C	tiple Types, which use 33 or Clause	, or a combination of
SuggestedRemedy A reference has been a Response ACCEPT. Cl 145 SC 145 Yseboodt, Lennart Comment Type ER We have 77 occurance SuggestedRemedy Replace 'classification	Response Status W P 99 Philips Comment Status A es of 'class event' and 7 occu event' by 'class event'.	L1	Editorial	Comment Type ER "PSEs and PDs may both." Could be interpreted here. SuggestedRemedy "The PSE and PD ca combination." (this was tricky to for Response	Comment Status A v be of a Type defined in Claus to mean a device can be mult an be of a Type defined in Claus mulate as intended, please ch <i>Response Status</i> C	tiple Types, which use 33 or Clause	, or a combination of

C/ 145 SC 145.2.1 Yseboodt, Lennart	Р 103 Philips	L 23	# 256	C/ 145 Yseboodt,	SC 145.2.3 Lennart	P 108 Philips	L 1	# 258
	Comment Status A e 3, and Type 4 PSEs interope to power limitations. See 145.2 ."			Comment Figure Suggested Fix.	145-8 is clipped	Comment Status A at the top.		Editoria
SuggestedRemedy Remove the last two s Why ? While they are	sentences. e not wrong, they raise questio	ns that at this po	int in the text are	Response ACCE		Response Status C		
unneeded. Questions that are the	en not answered unless we reast that PSEs and PDs will inter	ad through 145.2	2.7.	C/ 145 Yseboodt, Comment		P 108 Philips <i>Comment Status</i> A	L 1	# 259 Editoria
Response ACCEPT IN PRINCIP	Response Status C PLE.			Editor and up	blindly executed	comment #272 which p	oduced the followin	
	e. e of paragraph on page 172, li es comments: 88, 152	ne 24.		Suggested Chang Response ACCE	ge all occurences	to "Non-powering equip Response Status W		
2/ 145 SC 145.2.1 seboodt, Lennart	P 103 Philips	L 41	# 257	C/ 145 Yseboodt,	SC 145	P 112 Philips	<i>L</i> 1	# 260
Comment Type E Missing space before SuggestedRemedy Fix. Response	Comment Status A 'and' in footnote a of Table 14 Response Status C	5-2.	Editorial	Comment The fo - page - page - page	<i>Type</i> ER Illowing redundate 112, subclause 122, subclause 176, subclause	Comment Status A nt references to Type stil 145.2.5.1.1 title "Type 3 145.2.5.5 title "Type 3 an 145.3.3.6 title "Type 3 and 145B.1 title "Type 3 and	and Type 4 specific nd Type 4 timers" nd Type 4 single-sig	overview and timing" nature functions"
ACCEPT.				Suggested Remo	<i>lRemedy</i> ve "Type 3 and ⊺	ype 4".		
				Response ACCE	PT IN PRINCIPI	Response Status W		
				Delete	e Title of 145.2.5	1.1 and move text in tha	t section to end of 1	45.2.5.1.
				- page - page	122, subclause 176, subclause	ype 4" from the following 145.2.5.5 title "Type 3 at 145.3.3.6 title "Type 3 at 145B.1 title "Type 3 and	nd Type 4 timers" nd Type 4 single-sig	
YPE: TR/technical requi	red ER/editorial required GR/	general required	T/technical E/editorial	G/general		Cc	omment ID 260	Page 68 of 80

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

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C/ 145 SC 145.2.5.7	P 129	L 31	# 261	C/ 145 SC	C 145.2.7	P 150	L 8	# 263
Yseboodt, Lennart	Philips			Wendt, Matthias	i	Philips Lighting		
Comment Type T	Comment Status A		PSE SD	Comment Type	ER	Comment Status A		PSE Powe
This was a late submis	2.org/3/bt/public/mar17/ysel sion in March, which was pro it, as such it didn`t make into	esented.	tartdetectfix.pdf		ing a single	num power output a PSE suppo s-signature PD, or supplying pov		
SuggestedRemedy	02.org/3/bt/public/mar17/vse		startdetectfix ndf	Inconsistent 'assigned cla		ame sentence for dual-signature	below, which	h doesn`t mention the
	5 1 <i>,</i>		standetectinx.pui	SuggestedReme	ədy			
Response ACCEPT.	Response Status C					output a PSE supports when pow air mode, is defined by Equatior		le-signature PD, or
Cl 145 SC 145.2.5.7 Yseboodt, Lennart	P 132 Philips	L 43	# 262	Append sen	tence to the	e previous paragraph (line 6): putput a PSE supports depends		ned Class."
Comment Type TR State 'CLASS_EV3' to Parens are in the wron SuggestedRemedy Change to: tcle3 timer done *	Comment Status A MARK_EV3' transition incor g place.	rectly implemente	PSE SD od from baseline.		um output p	tence on line 24 to match: bower a PSE supports on a pairs ion (145-3)." Response Status W	set when pow	vering a dual-signature
(pse_alternative = both (pd_class_sig != 4) * ((pse_avail_pwr >= pd_				C/ 145 SC Wendt, Matthias	C 145.2.8.1	P 158 Philips Lighting	L 51	# 264
(pse_avail_pwr > 5)) Response ACCEPT IN PRINCIPL	Response Status C E.					Comment Status A load step of (IHold max _ VPort, e maximum power per the PSE		Editoria. Class É."
ALSO,				Linebreak in	VPort_PS	E-2P min.		
ALSO,				SuggestedReme	edy			
change = to <= in MAR	K_EV3.			Add non-bre	aking hyph	ien.		

Cl 145 SC 145.2.8.5.1 P 163 L 1 # 265 Wendt, Matthias Philips Lighting	Cl 145 SC 145.2 Wendt, Matthias		P 164 Philips Lighting	L 24	# 267
Comment Type ER Comment Status A Editorial original text: "Table 145-17 Rload_max and Rload_min requirements" This table is no longer about Rload (which is now in Equation 145-16 and 17).	Comment Type TR original text: "a) Us resistance conditio	e Rload_min and R		n Table 145-17 f	<i>Unbalanc</i> for low channel
SuggestedRemedy Change title to: "Table 145-17 Unbalance load resistances"	evaluation note ref		145-17 where	as there only th	ne requirements for the
-	SuggestedRemedy				
Response Response Status W ACCEPT.	Change to: a) Use channel resistance		ad_max from e	equations 145-1	6 and 145-17 for low
This comment resolves comment: 93	Response	Response S	tatus C		
	ACCEPT IN PRIN	CIPLE.			
C/ 145 SC 145.2.8.5.1 P 163 L 38 # 266	ALSO fix:				
Nendt, Matthias Philips Lighting		b) through e) for RI	bad min and R	load max from	equations 145-16 and
Comment Type TR Comment Status A Unbalance		annel resistance co		_	
original text: "Rload_min = RPair_PD_min + RChunb_min" in equation 145-16 and 145-17 RPair_PD_min/max is used but Table 145-17 lists RPD_min/max.	C/ 145 SC 145.2 Yseboodt, Lennart		P 164 Philips	L 35	# 268
SuggestedRemedy	Comment Type ER	Comment S	tatus A		Editor
Change to: Rload_min = RPD_min + RChunb_min, and same fix for Eq. 145-17 Also, there is a missing where subclause below the equation. Add it.					POWER_UP state on ned Class 5 to 8 to a
Also, there is a missing where subclause below the equation. Add it.	that pairset and the single-signature Pl	e expiration of T Inr D shall reach the PC	ush-2P . PSEs DWER_ON stat	that have assign te on both pairs	ned Class 5 to 8 to a sets within T Inrush-2P
Also, there is a missing where subclause below the equation. Add it.	that pairset and the single-signature PI max, starting with	e expiration of T Inr D shall reach the PC	ush-2P . PSEs DWER_ON stat sitioning into the	that have assign te on both pairs e POWER_UP	ned Class 5 to 8 to a sets within T Inrush-2P state, and where the
Also, there is a missing where subclause below the equation. Add it.ResponseResponse StatusC	that pairset and the single-signature PI max, starting with second pairset tran	e expiration of T Inre D shall reach the PC the first pairset trans	ush-2P . PSEs OWER_ON stat sitioning into the _UP anytime wi	that have assign te on both pairs e POWER_UP ithin this time pe	ned Class 5 to 8 to a sets within T Inrush-2P state, and where the
Also, there is a missing where subclause below the equation. Add it. Response Response Status C ACCEPT IN PRINCIPLE.	that pairset and the single-signature PI max, starting with second pairset trar Liberally mixes 'PO	e expiration of T Inro D shall reach the PO the first pairset trans sitions to POWER	ush-2P . PSEs DWER_ON stat sitioning into the _UP anytime wi POWER_UP s	that have assig te on both pairs e POWER_UP ithin this time pe state'.	ned Class 5 to 8 to a sets within T Inrush-2P state, and where the
Also, there is a missing where subclause below the equation. Add it. Response Response Status C ACCEPT IN PRINCIPLE. Rpd is fixed by comment 53.	that pairset and the single-signature PI max, starting with second pairset trar Liberally mixes 'PC Didn't we decide to	e expiration of T Inn D shall reach the PC the first pairset trans sitions to POWER_ DWER_UP' and 'the D use the state name of POWER_UP (als	ush-2P . PSEs OWER_ON stat sitioning into the _UP anytime wi POWER_UP s e, but not 'state	that have assig te on both pairs e POWER_UP ithin this time pe state'. state'.	ned Class 5 to 8 to a sets within T Inrush-2P state, and where the
Also, there is a missing where subclause below the equation. Add it. Response Response Status C ACCEPT IN PRINCIPLE. Rpd is fixed by comment 53.	that pairset and the single-signature PI max, starting with second pairset trar Liberally mixes 'PO Didn't we decide to The very first use of	e expiration of T Inn D shall reach the PC the first pairset trans sitions to POWER_ DWER_UP' and 'the D use the state name of POWER_UP (als	ush-2P . PSEs OWER_ON stat sitioning into the _UP anytime wi POWER_UP s e, but not 'state	that have assig te on both pairs e POWER_UP ithin this time pe state'. state'.	ned Class 5 to 8 to a sets within T Inrush-2P state, and where the eriod."
Also, there is a missing where subclause below the equation. Add it. Response Response Status C ACCEPT IN PRINCIPLE. Rpd is fixed by comment 53.	that pairset and the single-signature PI max, starting with second pairset trar Liberally mixes 'PC Didn't we decide to The very first use of point to the actual SuggestedRemedy "Power up occurs of and the expiration signature PD shall with the first pairse	e expiration of T Inn D shall reach the PC the first pairset trans insitions to POWER_ DWER_UP' and 'the D use the state name of POWER_UP (als state. Don each pairset betw of T Inrush-2P . PS	ush-2P . PSEs OWER_ON stat sitioning into the _UP anytime wi POWER_UP s e, but not 'state o in the subclau ween the transi Es that have as I on both pairse POWER_UP, a	that have assigned te on both pairs e POWER_UP ithin this time per state'. y'. use title) is the of tion to POWER ssigned Class 5 ets within T Inrus and where the s	aned Class 5 to 8 to a sets within T Inrush-2P state, and where the eriod." odd duck as it doesn't cuP on that pairset to 8 to a single- ush-2P max, starting
Also, there is a missing where subclause below the equation. Add it. Response Response Status C ACCEPT IN PRINCIPLE. Rpd is fixed by comment 53.	that pairset and the single-signature PI max, starting with t second pairset trar Liberally mixes 'PO Didn't we decide to The very first use of point to the actual SuggestedRemedy "Power up occurs of and the expiration signature PD shall with the first pairset transitions to POW	e expiration of T Inn D shall reach the PC the first pairset trans insitions to POWER_ DWER_UP' and 'the DWER_UP' and 't	ush-2P . PSEs DWER_ON stat sitioning into the _UP anytime wi POWER_UP s e, but not 'state to in the subclau ween the transit Es that have as I on both pairse POWER_UP, a thin this time pe	that have assigned that have assigned Class 5 e POWER_UP (ithin this time performance) (ithin this time performance) (ithin this time performance) (ithin this time performance) (ithin the performanc	aned Class 5 to 8 to a sets within T Inrush-2P state, and where the eriod." odd duck as it doesn't cut duck as it doesn't cut on that pairset to 8 to a single- ush-2P max, starting
Also, there is a missing where subclause below the equation. Add it. Response Response Status C ACCEPT IN PRINCIPLE. Rpd is fixed by comment 53.	that pairset and the single-signature PI max, starting with t second pairset trar Liberally mixes 'PO Didn't we decide to The very first use of point to the actual SuggestedRemedy "Power up occurs of and the expiration signature PD shall with the first pairset transitions to POW	e expiration of T Inno D shall reach the PC the first pairset trans Insitions to POWER_ DWER_UP' and 'the o use the state name of POWER_UP (als state. Don each pairset betwoof T Inrush-2P . PS reach POWER_ON t transitioning into 'ER_UP anytime with	ush-2P . PSEs DWER_ON stat sitioning into the _UP anytime wi POWER_UP s e, but not 'state o in the subclau ween the transi Es that have as I on both pairse POWER_UP, a thin this time pow	that have assigned that have assigned Class 5 e POWER_UP (ithin this time performance) (ithin this time performance) (ithin this time performance) (ithin this time performance) (ithin the performanc	aned Class 5 to 8 to a sets within T Inrush-2P state, and where the eriod." odd duck as it doesn't cut duck as it doesn't cut a single- ush-2P max, starting

Cl 145 SC 145.3.1 Yseboodt, Lennart P	P 171 hilips	L 32	# 269	C/ 145 Yseboodt, l	SC 145.3.1 Lennart	P 172 Philips	L 2	# 270	
Comment Type E Comment Sta Table 145-18 uses the header "Single- SuggestedRemedy Replace by "PD signature" which match Response Response Sta ACCEPT IN PRINCIPLE. Change to: "Signature Configuration" Change title of 145.3.5 to "PD Signature	atus A or dual- signatu nes subclause ti tus C	tle 145.3.5	PD Types	Comment 7 "Single Layer C Single Physica Such T Dual-si Layer C each pa The ori Multiple ALL of PDs su	Type E -signature PDs Classification ar signature PDs al Layer classifi ype 3 PDs requ gnature PDs im Classification (s airset, while Typ gin of all of this e event, and wh this text is redu pport Multiple I such doesn't n	Comment Status A that request Class 3 or lead and may implement Data L that request Class 4 or gr cation (see 145.3.6.1) and uest Class 4, 5, or 6, while applement Multiple-Event P ee 145.5). Type 3 dual-sig be 4 dual-signature PDs r text used to be to describ ether they support DLL of indant to the Table in the Event Physical layer. But the eed stating here.	ink Layer classificate eater implement bo d Data Link Layer c Type 4 PDs reque hysical Layer class gnature PDs request equest Class 5 on a pe whether PDs sup r not. same section, with	tion (see 145.5). th Multiple-Event lassification (see 145.5). st Class 7 or 8. ification and Data Link st Class 1, 2, 3, or 4 on at least one pairset." oported Single or the exception that that	
				Remove quoted text. Response Response Status C ACCEPT IN PRINCIPLE.					
				Vote: Accept Reject: Fails AIP wit	: 11 5 h addition of : showing supp 6	owing support of MEPLC			

C/ 145 SC 145.3.2 P 172 L 24 # 271 Yseboodt, Lennart Philips	C/ 145 SC 145.3.3.7 P 179 L 35 # 273 Yseboodt, Lennart Philips
Comment Type ER Comment Status A Editorial "PDs interoperate with Type 1, Type 2, Type 3, and Type 4 PSEs, subject to power limitations. See 145.3.6. The PD may operate in a reduced power mode in that case." Editorial	Comment Type T Comment Status A Editor In state 'POWERED' there is a spelling mistake, dll_enable. Editor Editor
Is typeset in Note style. Last sentence needs a bit more flesh. SuggestedRemedy	Why does this mistake keep popping up ? dll_enabled is a control variable, set by the state machine. But it reads like a status variable. It actually makes more sense to call it 'dll_enable', this better reflects what it does.
 Change to regular text. Replace last sentence by: "PDs connected to a PSE that cannot supply the requested amount of power can choose to operate in a reduced power mode." 	SuggestedRemedy Global S&R: pd_dll_enabled => pd_dll_enable
Response Response Status C ACCEPT IN PRINCIPLE. - Change to regular text.	pse_dll_enabled => pse_dll_enable Response Response Status C ACCEPT.
This comment resolves comment: 155	
C/ 145 SC 145.3.3.4 P 175 L 39 # 272 Yseboodt, Lennart Philips	
Comment Type E Comment Status A Editorial Redundant empty line after 'present_class_sig_B' Editorial Editorial	
SuggestedRemedy Fix.	
Response Response Status C ACCEPT.	

C/ 145 SC 145.	.3.5	P 187	L 29	# 274	C/ 145 SC	145.3.6	P 188	L 22	# 276
/seboodt, Lennart	I	Philips			Yseboodt, Lenna	rt	Philips		
Comment Type TF	Comment St	atus D		Connection Check	Comment Type	ER	Comment Status A		Editor
"A single-signatur	e PD shall present a	valid detectio	n signature, as	defined in Table 145-	Swap the firs	st two rows (header rows) of Table	145-22, same for	145-12.
	de when no voltage			her Mode, and shall ge between 10.1 V and	SuggestedReme	dy			
				Mode A and Mode B."	Per commen	t.			
10.1V are applied	to the 'corruptor' pai	rset.		y when voltages above	Response ACCEPT.		Response Status N	1	
During connectior detection.	n check however, only	y voltages BE	LOW 10.1V ma	y be used to corrupt	C/ 145 SC	145.3.6.1	P 189	L 9	# 277
					Yseboodt, Lenna		Philips	-•	
	The lowest possible corruptor voltage that is guaranteed to create an invalid detection signature is $2.7V + 1V = 3.7V$.					Е	Comment Status A		Edito
-					Comment Type "DO_CLASS				
	ange down to 3.7V, w			ect. gnature. This says the	_				
	pass detection (not				Spurious '-'.				
				-	CuanantadDama	du			
presence of a sing	gle corruptor voltage	on the other p	pairset.		SuggestedReme	•			
SuggestedRemedy				defined in Table 145-	"DO_CLASS Response	•			
SuggestedRemedy "A single-signatur 20, on a given Mo present an invalid 57 V is applied to Proposed Response	e PD shall present a de when no voltage detection signature	valid detectic or current is a on that Mode se requireme	on signature, as applied to the oth when any voltag	defined in Table 145- ner Mode, and shall ge between 3.7 V and n Mode A and Mode B."	"DO_CLASS	•	UTO" Response Status C		
SuggestedRemedy "A single-signatur 20, on a given Mo present an invalid 57 V is applied to	e PD shall present a ode when no voltage detection signature the other Mode. The	valid detectic or current is a on that Mode se requireme	on signature, as applied to the oth when any voltag	ner Mode, and shall ge between 3.7 V and	"DO_CLASS Response	•			
SuggestedRemedy "A single-signatur 20, on a given Mo present an invalid 57 V is applied to Proposed Response REJECT.	e PD shall present a ode when no voltage detection signature the other Mode. The	valid detectic or current is a on that Mode se requireme atus Z	on signature, as applied to the oth when any voltag nts apply to both	ner Mode, and shall ge between 3.7 V and	"DO_CLASS Response	•			
SuggestedRemedy "A single-signatur 20, on a given Mo present an invalid 57 V is applied to Proposed Response REJECT.	e PD shall present a ode when no voltage o detection signature o the other Mode. The <i>Response Sta</i> s WITHDRAWN by t	valid detectic or current is a on that Mode se requireme <i>atus</i> Z he commente	on signature, as applied to the oth when any voltag nts apply to both	ner Mode, and shall ge between 3.7 V and	"DO_CLASS Response	•			
SuggestedRemedy "A single-signatur 20, on a given Mo present an invalid 57 V is applied to Proposed Response REJECT. This comment wa C/ 145 SC 145. (seboodt, Lennart	e PD shall present a detection signature of the other Mode. The <i>Response Sta</i> s WITHDRAWN by t 3.6	valid detectic or current is a on that Mode se requireme atus Z he commente P 188 Philips	on signature, as ipplied to the oth when any voltag nts apply to both er.	ther Mode, and shall ge between 3.7 V and in Mode A and Mode B." # 275	"DO_CLASS Response	•			
SuggestedRemedy "A single-signatur 20, on a given Mo present an invalid 57 V is applied to Proposed Response REJECT. This comment wa Cl 145 SC 145. (seboodt, Lennart Comment Type E "Single-signature	e PD shall present a ode when no voltage of detection signature of the other Mode. The <i>Response Sta</i> s WITHDRAWN by t 3.6	valid detectic or current is a on that Mode se requireme atus Z he commente <i>P</i> 188 Philips atus A ss 4 or highe	on signature, as applied to the oth when any voltag nts apply to both er. <i>L</i> 10 r and dual-signa	her Mode, and shall ge between 3.7 V and n Mode A and Mode B." # 275 Editorial ture PDs the request	"DO_CLASS Response	•			
SuggestedRemedy "A single-signatur 20, on a given Mo present an invalid 57 V is applied to Proposed Response REJECT. This comment wa Cl 145 SC 145. (seboodt, Lennart Comment Type E "Single-signature	e PD shall present a detection signature of the other Mode. The <i>Response Sta</i> s WITHDRAWN by t 3.6 <i>Comment Sta</i> PDs that request Cla	valid detectic or current is a on that Mode se requireme atus Z he commente <i>P</i> 188 Philips atus A ss 4 or highe	on signature, as applied to the oth when any voltag nts apply to both er. <i>L</i> 10 r and dual-signa	her Mode, and shall ge between 3.7 V and n Mode A and Mode B." # 275 Editorial ture PDs the request	"DO_CLASS Response	•			
SuggestedRemedy "A single-signatur 20, on a given Mo present an invalid 57 V is applied to Proposed Response REJECT. This comment wa C/ 145 SC 145. (seboodt, Lennart Comment Type E "Single-signature Class 4 or higher Type 'the => that'	e PD shall present a detection signature of the other Mode. The <i>Response Sta</i> s WITHDRAWN by t 3.6 <i>Comment Sta</i> PDs that request Cla	valid detectic or current is a on that Mode se requireme atus Z he commente <i>P</i> 188 Philips atus A ss 4 or highe	on signature, as applied to the oth when any voltag nts apply to both er. <i>L</i> 10 r and dual-signa	her Mode, and shall ge between 3.7 V and n Mode A and Mode B." # 275 Editorial ture PDs the request	"DO_CLASS Response	•			
SuggestedRemedy "A single-signatur 20, on a given Mo present an invalid 57 V is applied to Proposed Response REJECT. This comment wa Cl 145 SC 145. Vseboodt, Lennart Comment Type E "Single-signature Class 4 or higher Type 'the => that' SuggestedRemedy "Single-signature	e PD shall present a ode when no voltage of detection signature of the other Mode. The <i>Response Sta</i> is WITHDRAWN by t 3.6 PDs that request Cla on at least one of its	valid detectic or current is a on that Mode se requireme atus Z the commente P 188 Philips atus A ss 4 or highe Modes shall ss 4 or highe	on signature, as applied to the oth when any voltag nts apply to both er. <i>L</i> 10 r and dual-signa provide DLL class r and dual-signa	her Mode, and shall ge between 3.7 V and n Mode A and Mode B." # 275 <i>Editorial</i> sture PDs the request ssification."	"DO_CLASS Response	•			
SuggestedRemedy "A single-signatur 20, on a given Mo present an invalid 57 V is applied to Proposed Response REJECT. This comment wa Cl 145 SC 145. (seboodt, Lennart Comment Type E "Single-signature Class 4 or higher Type 'the => that' SuggestedRemedy "Single-signature	e PD shall present a ode when no voltage of detection signature of the other Mode. The <i>Response Sta</i> is WITHDRAWN by t 3.6 PDs that request Cla on at least one of its PDs that request Cla	valid detectic or current is a on that Mode se requireme <i>atus</i> Z the commente <i>P</i> 188 Philips <i>atus</i> A ss 4 or highe Modes shall ss 4 or highe	on signature, as applied to the oth when any voltag nts apply to both er. <i>L</i> 10 r and dual-signa provide DLL class r and dual-signa	her Mode, and shall ge between 3.7 V and n Mode A and Mode B." # 275 <i>Editorial</i> sture PDs the request ssification."	"DO_CLASS Response	•			

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 U/unsatisfied Z/withdrawn SORT ORDER: Comment ID

C/ 145 SC 145.3.6.2 Yseboodt, Lennart	2 P 191 Philips	L 39	# 278	C/ 145 SC Yseboodt, Lennar	145.3.8.3 +	P 196 Philips	L 38	# 280
Comment Type T	Comment Status A		PD Class	Comment Type		Comment Status A		Editorial
"A PD implementing A 145.3.6.1 with the exce to class signature '0' n Table 145-27."	utoclass shall respond to Ph eption that the PD shall chan o earlier than T ACS min and 145.3.6.1, so it is redundant	ge its current du I no later than T	sification as specified in ring the first class event ACS max, as defined in	"A PSE limits is sufficient cr C Port < 18 C Port < 36 C Port < 11 C Port < 18	the inrush cu urrent to char 0 mF for sing 0 mF for sing 0 mF for dua 0 mF for dua	Irrent to I Inrush and I Inru ge C Port or C Port-2P to le-signature PDs assigne le-signature PDs assigned I-signature PDs assigned	V Port_PSE-2P ed to Class 1 thro ed to Class 7 or 8 to Class 1 throu	in Table 145-16, which when: ough 6 3
SuggestedRemedy				Last two lines		CPort-2P.		
	Autoclass shall change its c			SuggestedRemed Change CPor	,	for the last two lines in th	ne list.	
Table 145-27."	earlier than T ACS min and n			Response ACCEPT.	F	Response Status W		
In the next sentence, r Autoclass".	eplace "A PD implementing /	Autoclass" by "A	PD that implements		145.3.8.4.1	P 198	L 12	# 281
Response	Response Status C			Yseboodt, Lennar	t	Philips		
ACCEPT.				Comment Type	_	Comment Status A		PD Power
C/ 145 SC 145.3.8.1 Yseboodt, Lennart	P 195 Philips	L 31	# 279	requirements	are met and	4.1 conditions is allowed in the total input power is lease rely when calculated over	ss than or equal	to P Class or P Class-
	Comment Status A is undefined if V PD falls bel or POWERED state, until V F			the total 'budo I tried rewritin	get' for input p g this, but alv	is is the second time we power. vays get into a corner whe leeds to be a shall, but we	ere I need to use	the word 'must'.
SuggestedRemedy Adopt yseboodt_02_05				Also, 'calcula is meant.	ted over a 1 s	econd interval' means the	e calculation take	es 1 second. Not what
Response	Response Status C			SuggestedRemed Remove quot	•			
ACCEPT.				Response ACCEPT.	F	Response Status C		

<i>CI</i> 145 Yseboodt, L	SC 145.3.8.6	P 199 Philips	L 24	# 282	<i>CI</i> 145 Yseboodt, L	SC 145.3.9 ennart	P 202 Philips	L 42	# 285
Comment T		Comment Status A		Pres: Yseboodt1	Comment T		Comment Status A		PD MPS
In the tr to show	ransient section F v current levels. eflection, the info	Figure 145-31 has the Y axis		wer", but then proceeds	"PDs that in order Reduce	at detect a long to draw a lowe it compared to	first class event in the range r standby MPS power." what? This may be interprete	_	· _
SuggestedF	Remedy				by the ta				
Adopt y	/seboodt_01_051	7_transients.pdf			SuggestedR	•			
Response		Response Status C					first class event in the range aw a lower standby MPS pow		hay use the shorter 1
ACCEP	РТ.				Response		Response Status C		
C/ 145 Yseboodt, L	SC 145.3.8.8	P 200 Philips	L 17	# 283	ACCEP	Т.			
		·			C/ 145	SC 145.5.3	P 219	L 31	# 286
Comment T		Comment Status A		Editorial	Yseboodt, L	ennart	Philips		
PD Phy	sical Layer class	ion and a rising voltage tran signature shall be valid with for the duration of the class	nin T Class_PD	as specified in Table	Comment Ty During t		Comment Status A ne DLL variable sections, seve	eral subclauses	Editoria became empty.
Class_F specifie Response	ing a valid detect PD , the PD Phys	ion and a rising voltage tran ical Layer class signature s 8 and remain valid for the d <i>Response Status</i> W	hall be valid with	nin T Class_PD as	- 145.5. - 145.5. - 145.5. <i>Response</i> ACCEP	3.6.1 3.6.3	Response Status W		
	-		1	and the stand of the stand of the	C/ 145	SC 145.5.3.4	.5 P 227	L 18	# 287
		ASS state, the PD Physical becified in Table 145-28 and			Yseboodt, L	ennart	Philips		
class ev					Comment T	ype E	Comment Status A		Editoria
2/ 145	SC 145.3.8.10	P 201	L 24	# 284	Drawing	goof in Figure	145-44 at the bottom of the R	EQUEST state	
seboodt, L		Philips			SuggestedF	Remedy			
Comment T	Type ER	Comment Status A 5-29 do not have a variable	list below.	Editorial	Fix. <i>Response</i>		Response Status C		
SuggestedF					ACCEP	Т.			
Fix.									
Response		Response Status W							
•	PT.	,							
ACCEP									

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

C/ 145 SC 145.7	P 240	L 4	# 288	C/ 30	SC 30.12.2	.1.21	P 51	L 43	# 291
Yseboodt, Lennart	Philips			Yseboodt,			Philips		
Comment Type ER Remove the Editor's N SuggestedRemedy	Comment Status A lote warning us not to comme	nt against the PI	Editorial CS.	not ha	anaged object	aLldpXdot3l ding field in	the PoE LLDPDU		Manageme n 30.12.2.1.21 does
Per comment.					is also no rem				
Response ACCEPT.	Response Status W			After c	consulting with	Mr. Law, the	e correct course of	action is to remo	ve this object.
				Suggested	-				
C/ 145A SC 145A Yseboodt, Lennart	P 265 Philips	L 1	# 289	- Delet	te the Editor's te 30.12.2.1.21 te the object in		6, page 52		
Comment Type E TODO Lennart: introdu	Comment Status D uce Annex that shows an over	view of ALL PSE	Pres: Yseboodt3 Es and PDs.	Response ACCE		Respon	nse Status W		
I can't believe I agreed	I to do this			C/ 79	SC 79		P 73	L 4	# 292
SuggestedRemedy				Yseboodt,	Lennart		Philips		
1 2 = =	517_overviewannex.pdf			Comment	Type ER	Comm	ent Status A		Editor
Proposed Response REJECT.	Response Status Z						e 79 are included for r ballot if they have		e of the reader and ed."
This comment was WI	THDRAWN by the commente	er.		The tir	me has probab	ly come			
C/ 30 SC 30.9 Yseboodt, Lennart	P 34 Philips	L 48	# 290	Suggested Remov	-	subclauses	from Clause 79 an	d remove this not	e.
Comment Type ER	Comment Status A	e convenience of	<i>Editorial</i> the reader and shall	Response ACCE		Respon	ose Status C		
The time has probably	come								
SuggestedRemedy									
Remove unmodified su	ubclauses from Clause 30 and	d remove this no	te.						
Response	Response Status C								

ACCEPT.

CI 79 SC 79.3.2	P 75	L 48	# 293	CI 79	SC 79.3.2.5	P 79	L 40	# 295
Yseboodt, Lennart	Philips			Yseboodt,	_ennart	Philips		
Comment Type TR	Comment Status A			Comment	Type TR	Comment Status A		LLDF
Comment Type TR Comment Status A "Type 1 and Type 2 devices shall not support the Type 3 and Type 4 extension." This requirement was added last cycle. It is unclear what the purpose is. An obvious side-effect is that T1/2 PDs cannot use LLDP to indicate they support 4-pair, which was the whole point of the PD 4PID bit. It also precludes T1/2 PDs to make use of the new LLDP features (Autoclass, shutdown,). uggestedRemedy Remove quoted text. Response Response Status C ACCEPT IN PRINCIPLE. No changes to draft. LLDP ad hoc was formed.					PD requested po 3.2) the PD may PD requested po 3.2) the PD want as changed as p review. rrent version imp ot belong in Clar to' gives person Remedy e by:	ower value" is the maximum draw. ower value" is the maximum s to draw. art of the many changes to c poses a requirement on the F use 79. ality to the PD (<= just for Fre alue" is the maximum input a	input average po lual-sig LLDP an PD power consur ed!)	ower (see 33.3.8.2 and ower (see 33.3.8.2 and d was overlooked nption, something that
This comment resolv		L 16	# 294	"PD ree	PT IN PRINCIPL quested power v 3.2) the PD is rea	alue" is the maximum input a	average power (s	see 33.3.8.2 and
Yseboodt, Lennart	Philips	L 10	# 294	140.0.0		questing.		
in Table 79-5, for Typ for PD requested pov	Comment Status D ower value field shall contain t be 1, Type 2, and single-signat wer value shall be set to the su power value Mode B in Table 7	ure Type 3 and ⁻ m of PD request	Type 4 PDs. The fields ed power value Mode					
	is field mandatory for Type 1 F to specify what dual-sigs need		ot the intention.					
SuggestedRemedy								
"The PD requested p in Table 79-5." Append after: "Dual-signature Type	ower value field shall contain t 3 and Type 4 PDs shall use th ode B fields as the value for th	ne sum of the PI						

Proposed Response Response Status Z

REJECT.

This comment was WITHDRAWN by the commenter.

C/ 79 Yseboodt, L	SC 79.3.2.6	P 79 Philips	L 46	# 296	<i>Cl</i> 79 Yseboodt	SC 79.3.2 Lennart	2.6a	P 80 Philips	L 33	# 298
defined	SE allocated power v	omment Status D value field shall contain SEs connected to single				ields for PD r	equested por	nent Status A wer value Mode A a lue 0, for Type 3 ar		<i>LLDF</i> power value Mode B signature PDs."
Suggestedl "The P	SE allocated power v in Table 79-6."	requested power.	the PSE's alloca	ted power value	Suggester "Singl to 0." Response	e-signature P		the PD requested p	ower value Mode	A and Mode B fields
allocate	d power value Alterr (line 49-54):	onnected to a dual-sign native A and Alternative	B fields as the v	alue for this field."	ACCE C/ 79 Yseboodt	SC 79.3.2	2.6a	P 80 Philips	L 46	# 299
value fi allocate field ma	ed power value Alterr eld for a dual-signatu ed power value Alterr	PSE allocated power val native B field shall be pr ure PD for Type 3 and T native A field and the PS PSE allocated power v	ovided in the PS ype 4 PSEs. The SE allocated pow	E allocated power e sum of the PSE ver value Alternative B	Comment ""Dua powe	<i>Type</i> TR I-signature PI	D requested p B" are the ma	nent Status A bower value Mode A aximum input avera	A" and "Dual-sign: age power levels (<i>LLDP</i> ature PD requested see 145.3.8.2) the PD
Proposed F REJEC	Response Re	esponse Status Z				emi-requirem -signature.	ient does not	belong here in Cla	use 79. Word in s	imilar manner as for
	mment was WITHDF SC 79.3.2.6a	RAWN by the comment P 80 Philips	er. L 30	# 297	powe	I-signature PI value Mode Is to draw for	B" are the ma the respectiv	aximum input avera		ature PD requested see 145.3.8.2) the PD
value N	e (X) is non-active w lode (X) field value s	comment Status A hile the other mode is a hall be set to 0." he PD may wish to ask	·		ACCE ""Dua powe	PT IN PRINC	, D requested p B" are the ma	power value Mode A aximum input avera		ature PD requested see 145.3.8.2) the PD
Suggestedl Strike s	Remedy entence.					-				
	T IN PRINCIPLE.	esponse Status C								
	nges to draft. P ad hoc was forme	d								

Comment ID 299

LLDP

Page 78 of 80 5/25/2017 8:56:07 AM C/ 79 SC 79.3.2.6c.4 P 82 L 5 C/ 145 SC 145.4.4 P 207 # 300 L 33 # 303 Yseboodt, Lennart Philips Zimmerman, George CME Consulting/Aqua Comment Type **T** Comment Status A 11 DP Comment Type T Comment Status A AFS There is a stray reserved bit in the Power status field (bit 10). Table 145-34 is inconsistent with new table 33-19b and has incorrect bandwidths for 5G and 10GBASE-T. SuggestedRemedy SuggestedRemedy Move the PSE power pairs field down by 1 bit to merge the reserved bits. Also, fix the incorrect bit header for "PSE power pairsx" for Value/Meaning. Change upper frequency for 5G to 250 MHz and 10G to 500 MHz Response Response Status C Response Response Status C ACCEPT. ACCEPT. C/ 79 SC 79.3.2.6d # 301 C/ 145 SC 145.2.5.1.1 P 112 # 304 P 83 L 30 L 51 Yseboodt, Lennart Philips Zimmerman, George CME Consulting/Agua Comment Type T Comment Status A 11 DP Comment Type E Comment Status A PSF SD There are two strav bits in 79-6d. "Monitoring of MPS is handled by Figure. Monitoring of inrush is handled by." nothing is handled by a figure. The figures describe state diagrams. SuggestedRemedy SuggestedRemedy Per convention in 79, reserved bits should be the high bits. Change "is handled by" to "is described by the state diagrams in" (for MPS) and "is 'Push down' all fields such that the two reserved bits are 7:6. described by the state diagram in" (for inrush) Response Response Status C Response Response Status C ACCEPT. ACCEPT. SC 79.3.2.6g C/ 79 P 85 L 3 # 302 This comment resolves comment: 136 Yseboodt, Lennart Philips C/ 145 P 148 SC 145.2.6.5 L 42 # 305 Comment Type TR Comment Status A Pres: Yseboodt4 Zimmerman, George CME Consulting/Agua We can add a time delay field to the request power down LLDP field that makes the PSE turn the PD back on after this delay. Comment Type Е Comment Status A Editorial SuggestedRemedy #ABSOLUTE "NOTE-Detection and rejection criteria for Clause 145 remain unchanged from Clause 33, therefore ensuring interoperability with Clause 33 devices (see also Adopt yseboodt 04 0517 powerdowndelay.pdf 145.2.6.4)." we cannot guarantee interoperability - we strive for it, and we are doing this for Response Response Status C the purpose of interoperability. ACCEPT IN PRINCIPLE. SuaaestedRemedv Change ", therefore ensuring" to "for the purpose of" Adopt vseboodt 04 0517 powerdowndelay.pdf and change "triggers" to "requests" in Table 79-6q. Response Response Status C ACCEPT IN PRINCIPLE. Change ", therefore ensuring" to "for the purpose of maintaining"

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C/ 145	SC 145.2.7	P 150	L 19	# 306	C/ 145	SC 145.4.7	P 210	L7	# 309
Zimmermar	, 0	CME Consult	ing/Aqua			an, George	CME Consult	ing/Aqua	
Comment 7		Comment Status A		Editorial	Comment		Comment Status A		AES
	161 L6, P161 L2	rrect, VPSE is applied "acros 21, and P169 L18 (note - this			ANSI	X3.263:1995 for	oss requirements as specifie a 100 Mb/s PHY, and 40.8.3. I requirements for higher spe	1 for a 1000 Mb	/s PHY." doesn't
Suggestedl	Remedy				Suggested	Remedy			
change	e "on " to "acros	s " in the indicated instances.					for a 1000 Mb/s PHY." to rea		
Response		Response Status C					s or 5 Gb/s PHY, and 55.8.2.	1 for a 10 Gb/s	PHY."
ACCEF	PT.				Response		Response Status W		
					ACCE	PT.			
C/ 145	SC 145.2.7	P 152	L 24	# 307	C/ 145	SC	P 166	L 24	# 310
Zimmermar	n, George	CME Consult	ing/Aqua		Lukacs, M		Silicon Labs		
Comment 7	51	Comment Status A		Editorial	Comment		Comment Status A		PSE Power
		shall return to IDLE if it fails E" or to "IDLE state."	PD. A PSE sha	Il return to the IDLE			n the PSE upperbound templ	ate in Figure 14	
		. OF ID IDEL SIGIE.					_min on the lowerbound tem		5 24 and 145 25
Suggestedl	2				Suggested	Remedy			
_	e "IDLE state" to					•	and Tlim_2p_min tick marks	horizontally.	
Response		Response Status C			Response	-	Response Status W		
ACCEF	PT IN PRINCIPL	.E.			•	PT IN PRINCIPL	•		
Change	e "the IDLE state	e" to "IDLE"				-	24 and 25 accordingly.		
C/ 145	SC 145.3.4	P 186	L 19	# 308	Editor	to adjust lightes	24 and 20 accordingly.		
Zimmermar	n, George	CME Consult	ing/Aqua						
Comment 7 "PD rec	51	Comment Status A " the "A" ("A PD requesting.")) was inadverten	<i>Editorial</i> tly struck out					
Suggestedl	Remedy								
00	e to read "A PD	requesting."							
Response		Response Status C							
	PT IN PRINCIPL								
OBE by	y 102								
### ### Comme ACCEF	ent 102 has the	following response:							
change	sted remedy: e to: "A PD reque is non-complia	esting power by presenting a nt,"	detection signat	ure outside of Table					
		, d. ED/aditarial required CD	(1		0		D

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 U/unsatisfied Z/withdrawn SORT ORDER: Comment ID