C/ 145 SC 145.3.3.7 P 179 L 40 # 1	C/FM SC FM P1 L12 # 3
Abramson, David Texas Instruments	Anslow, Pete Ciena
Comment Type TR Comment Status X Pres: Abramson1	Comment Type E Comment Status D Editorial
The NO_POWER state allows unwanted behavior by the PD. SuggestedRemedy	It is my understanding that the amendment title has to match the title in the PAR. Unless this is wrong, the title cannot be changed to "Power over Ethernet over 4 Pairs" without a PAR revision.
Adopt changes in abramson_01_0517.pdf	SuggestedRemedy
Proposed Response Response Status W WFP	Change the title back to match the PAR: "Physical Layer and Management Parameters for DTE Power via MDI over 4-Pair"
TFTD	Proposed Response Response Status W PROPOSED REJECT.
Cl 30 SC 30.12.2.1.18I P 47 L 4 # 2 Anslow, Pete Ciena Ciena Ciena Ciena	The rules and guidance in respect to the title of the amendment are as follows.
Comment Type T Comment Status D Management Comment #57 against D2.3 and was ACCEPT IN PRINCIPLE with a pointer to comment #122. The Comment #122 response was: "adopt darshan_03_0317Rev007F.pdf with editorial license to clean up. This comment resolves comments: 55, 56, 57, 63, 70, 71, 104, 105, 106, 117, 118, 119, 120, 121, 126, 128, 399" However, the referenced file makes no changes to 30.12.2.1.18l or 30.12.3.1.18l, nor does it rebut comment #57. This comment therefore repeats comment #57: The other subclauses in this section make it clear whether the attribute refers to the local or remote device. However, 30.12.2.1.18l and 30.12.3.1.18l have identical text. SuggestedRemedy	 Operations Manual <https: develop="" opman="" policies="" sb_om.pdf="" standards.ieee.org=""> states 'Title of Document. The title on the draft document and submittal form shall be within the scope as stated on the most recently approved PAR, or action(s) shall be taken to ensure this.'.</https:> [2] The IEEE-SA 2014 Style manual has similar text that reads 'Per 4.2.3.2 of the IEEE-SA Standards Board Operations Manual, the title on the draft document shall be within the scope as stated on the most recently approved PAR.'. [3] Item 2 Of the RevCom check list https://development.standards.ieee.org/myproject/Public/mytools/approve/subchklst.pdf> reads 'Is the Title of the submitted draft within the Scope of the PAR?'. Nothing states that they have to be equal and we believe the title is within the Scope.
Change "PSE" to "local PSE" here and change "PSE" to "remote PSE" in 30.12.3.1.18 Proposed Response Response Status W	C/FM SC FM P 1 L 22 # 4 Anslow, Pete Ciena
PROPOSED ACCEPT.	Comment Type E Comment Status D Editorial Now that IEEE Std 802.3bv-2017 has been approved, "201x" should be changed to "2017". SuggestedRemedy Change "201x" to "2017" here and on page 12 line 13, change "20xx" to "2017"
	Proposed Response Response Status W PROPOSED ACCEPT.

Cl 25 SC 25.4.6 P 29 L 17 # 5 Anslow, Pete Ciena	C/ 30 SC 30.12.2.1.14 P 43 L 15 # 8 Anslow, Pete Ciena Ci
Comment Type E Comment Status D Editorial The only text shown from 25.4.6 is the first paragraph. SuggestedRemedy Editorial SuggestedRemedy Change the editing instruction to: "Change the first paragraph of 25.4.6 as follows:	Comment Type E Comment Status D Editoria Applying the changes shown results in text that reads: "and whether it is Type 1 or or greater than Type 1" (double "or"). Same issue with the next sentence. SuggestedRemedy
Proposed Response Response Status W PROPOSED ACCEPT.	Change "or greater than Type 1" to "greater than Type 1" in two places. Proposed Response Response Status W
C/ 30 SC 30.9.1.1.10 P 37 L 50 # 6 Anslow, Pete Ciena Ciena Comment Type E Comment Status X Management	PROPOSED ACCEPT. C/ 33 SC 33.1.1 P 63 L 17 # 9 Anslow, Pete Ciena
If subclause 30.9.1.1.10 is deleted, then the row for aPSEShortCounter in Table 30-4 has to be deleted. SuggestedRemedy Add instructions under 30.2.5 to delete the row for aPSEShortCounter in Table 30-4. Proposed Response Response Status W TFTD	Comment Type E Comment Status D Editorial The general rule for placement of editing instructions is that if the subclause title is being changed or the entire subclause is being inserted, then the editing instruction comes before the subclause title, otherwise the editing instruction comes after the subclause title. This is correct for 33.1 and 33.2.1, but incorrect for 33.1.1, 33.3.1, 33.4, 33.8.4.3, etc. SuggestedRemedy Correct the placement of the editing instructions throughout the draft Correct the placement of the editing instructions throughout the draft
C/ 30 SC 30.12.3.1.17 P 54 L 47 # 7 Anslow, Pete Ciena Ciena Editorial	Proposed Response Response Status W PROPOSED ACCEPT.
Changes are shown to 30.12.3.1.17, but there is no corresponding editing instruction. SuggestedRemedy Add an editing instruction. Proposed Response Response Status W	Cl 33 SC 33.2.1 P 63 L 32 # 10 Anslow, Pete Ciena Ciena Editoria. Comment Type E Comment Status D Editoria. The 802.3 Framemaker template says: Include existing headings for each layer above the heading being inserted or modified. Editoria.

C/ 33 Anslow, Pete	SC 33.2.1	<i>P</i> 63 Ciena	L 34	# 11	CI 33 Anslow, P	SC 33. ete	4	<i>P</i> 64 Ciena	L 14	# 15
Comment Ty	pe E	Comment Status D		Editorial	Comment	Туре Е		Comment Status D		Editorial
0		nce" should be "Change the la	st paragraph"		The e	diting instru auses are p	uction s	says: "Change 33.4 and its and most of them already	s subclauses as fol have their own ec	lows:", but not all of the liting instruction.
SuggestedRe		to "lost percareph"			Suggested					J
Proposed Re	sponse	to "last paragraph" Response Status W						ruction to "Change 33.4 a on immediately after the ti		nge 33.4.6 as follows:"
PROPOS	SED ACCEPT.				Proposed	Response		Response Status W		
CI 33 Anslow, Pete	SC 33.2.2	<i>Р</i> 63 Ciena	L 41	# 12		SC 33.		P 64	1.00	# 40
Comment Ty	pe E	Comment Status D		Editorial	Cl 33 Anslow, P		4.3	Ciena	L 28	# 16
		ext than is shown here.			Comment			Comment Status D		Editorial
Proposed Re	the editing instr	ruction to: "Change the first pa Response Status W	aragraph of 33.	2.2 as follows:"	In "De "assoo 33.4.3 Suggested	elete Equati ciated text" as follows dRemedy	on 33- is to b :", whi	truction: "Delete Equation	a second editing ins	", it is unclear what struction "Change
CI 33 Anslow, Pete	SC 33.2.2	Р 63 Ciena	L 49	# 13	assoc Show	iated text."	of 33.4	.3 with Equation 33-15, Equation	•	
Comment Ty	pe E	Comment Status D		Editorial	Proposed	Response		Response Status W		
	rted text contai , which seems	ns 3 references to Figure 33- incorrect.	9. This figure is	s the "PSE state	PROF	POSED AC	CEPT.			
SuggestedRe	emedy				C/ 33	SC 33.	4.4	P 65	L 28	# 17
Change '	'Figure 33-9" to	o "Figure 33-7" in 3 places.			Anslow, P	ete		Ciena		
Proposed Re PROPOS	sponse SED ACCEPT.	Response Status W			<i>Comment</i> Only t			Comment Status D of 33.4.4 is shown		Editorial
C/ 33 Anslow, Pete	SC 33.2.2	<i>P</i> 64 Ciena	L 4	# 14	Suggested Chang		ng inst	ruction to: "Change the fire	st paragraph of 33.	4.4 as follows:
Comment Ty	pe E	Comment Status D 33-5" should be "in the title c	f Figure 33-5"	Editorial	Proposed PROF	Response POSED AC	CEPT.	Response Status W		
SuggestedRe			-							
Proposed Re	•	Response Status W								
		d ER/editorial required GR/g patched A/accepted R/reject				d U/unsati	sfied 2		ment ID 17	Page 3 of 72 4/28/2017 2:16

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 Working	Group recirculation	ballot comments

C/ 33 SC 33.4.4 Anslow, Pete	P 65 Ciena	L 33	# 18	Cl 33 SC 33.4.6 Anslow, Pete	<i>P</i> 66 Ciena	L 37	# 21
Comment Type E The text at the end SuggestedRemedy	Comment Status D of the first paragraph of 33.4.4 is	s being added bu	<i>Editorial</i> ut is not underlined.	2.5GBÁSE-T, 5GBAS	Comment Status D quency in MHz for a 10 Gb/s F E-T, or 10GBASE-T. her values, fmax should just b		Editorial uation covers
	es in Table 33–19b while operation	ng at the specifie	ed speed, when	SuggestedRemedy	ior values, max should just b		
Proposed Response PROPOSED ACCE	specified bandwidth." <i>Response Status</i> W PT.			Change "f is the frequ Change "fmax is the f	ency in MHz for a 10 Gb/s PH requency in MHz, 100 MHz fo DGBASE-T" to "fmax is 100 fo	or 2.5GBASE-T, 2	250 MHz for 5GBASE-
Cl 33 SC 33.4.6 Anslow, Pete	6 P 66 Ciena	L 32	# 19	Proposed Response PROPOSED ACCEP	Response Status W		
	Comment Status D ers in Clause 33 are incorrect.		Editorial	C/ 33 SC 33.4.9 Anslow, Pete	P 67 Ciena	L 3	# 22
SuggestedRemedy Change the equatio 33.4.6 to 33-17a 33.4.9.1.1 to 33-18 33.4.9.1.2 to 33-19				Comment Type E There is no change to SuggestedRemedy			Editorial
Proposed Response PROPOSED ACCE	Response Status W			Change the editing inst follows: Proposed Response	struction to: "Change 33.4.9.1 Response Status W	and 33.4.9.1.1 t	hrough 33.4.9.1.4 as
C/ 33 SC 33.4.6 Anslow, Pete	6 P 66 Ciena	L 32	# 20	PROPOSED ACCEP	Т. 	L7	# 23
Comment Type E	Comment Status D	d ha autsida tha	Editorial	Anslow, Pete	Ciena	L I	π 23
SuggestedRemedy Change "10mVpp/f" Change "1mVpp" to			DIAUNELS.	SuggestedRemedy	Comment Status D to the text in 40.6, remove th ences on lines 7 and 9.	ne two sentences	Editorial
Proposed Response PROPOSED ACCE	Response Status W			Proposed Response PROPOSED ACCEP	Response Status W T.		

There is no editing instruction associated with the change to 40.6.1.1 SuggestedRemedy Add an editing instruction: "Change the first paragraph of 40.6.1.1 as follows:" Proposed Response Response Status W PROPOSED ACCEPT. C1 79 SC 79.3 P75 L 19 # 25 Anslow, Pete Ciena Ciena Comment Type E Comment Status D Editorial SuggestedRemedy Change "TBD 8-255" should be "TBD 8 to 255" SuggestedRemedy Contain an em-dash SuggestedRemedy Change "TBD 8-255" to "TBD 8 to 255" P75 L 31 # 26 Comment Type E Comment Status D Editorial Rolow, Pete Ciena Ciena SuggestedRemedy SuggestedRemedy SuggestedRemedy C1 79 SC 79.3.2 P 75 L 31 # 26 Make sure all tables have a em-dash in currently blank min or max columns. 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 Proposed Response Status W PROPOSED ACCEPT. Proposed Response Response Status D Editorial Ci 79 SC 79.3.2 P 75 L 31 # 26 Anslow, Pete Ciena Ciena Ciena	C/ 40 SC 40.6.1.1 Anslow, Pete	<i>Р</i> 71 Ciena	L 14	# 24	Cl 79 SC Anslow, Pete	79.3.2.6a	P 80 Ciena	L 23	# 28
Add an editing instruction: "Change the first paragraph of 40.6.1.1 as follows:" Change '79.3.2.6f" to '79.3.2			hange to 40.6.1.					rt 79.3.2.6a throu	<i>Editoria</i> Igh 79.3.2.6g"
PROPOSED ACCEPT. PROPOSED ACCEPT. C1 79 SC 79.3 P 75 L 19 # 25 Anslow, Pete Ciena Ciena Ciena Ciena Comment Type E Comment Status D Editorial TBD 8-255" should be "TBD 8 to 255" SuggestedRemedy Change "TBD 8-255" to TBD 8 to 255" Comment Type E Comment Type E Comment Status D Editorial PROPOSED ACCEPT. Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT. C179 SC 79.3.2 P 75 L 31 # 26 PROPOSED REJECT. C1 79 SC 79.3.2 P 75 L 31 # 26 PROPOSED REJECT. The leak of am-dashes is intentional. The em-dash would convey that there is no relavent information, while the lack of the em-dash conveys that there is no specific number. SuggestedRemedy Delete the second instance. Proposed Response Response Status V P162 L 31 # 30 C1 79 SC 73.3.2 P 76 L 44 [27] Anslow, Pete Ciena Comment Type E Comment Type E Comment Type Table Status S Edit		on: "Change the first paragra	aph of 40.6.1.1 as	s follows:"			6g" in the editing instr	uction.	
Anslow, Pete Ciena Comment Type E Comment Status D Editorial TBD 8-255" should be "TBD 8 to 255" SuggestedRemedy Comment Type E Comment Type						-	oonse Status W		
"TBD 3-255" should be "TBD 8 to 255" SuggestedRemedy Change "TBD 8-255" to "TBD 8 to 255" Proposed Response Response Status W PROPOSED ACCEPT. C1 79 SC 79.3.2 P75 L 31 Z P75 Anslow, Pete Ciena Comment Type E Comment Status D Delete the second instance. Editorial Proposed Response Response Status PROPOSED ACCEPT. P76 Ci 79 SC 79.3.2.2 P76 Proposed Response Response Status Proposed Response Proposed Response Ci 79 SC 79.3.2.2 P76 P76 L 44 P27 Anslow, Pete Ciena Comment Type E Comment Status X Cont Tatiling zeros in Equation 145-15. Four			L 19	# 25		145		L 8	# 29
SuggestedRemedy SuggestedRemedy Change "TBD 8-255" to "TBD 8 to 255" Proposed Response Response Status W PROPOSED ACCEPT. Cit 79 SC 79.3.2 P75 L 31 # 26 Anslow, Pete Ciena Citorial The editing instruction: "Change 79.3.2 as follows:" is there twice. SuggestedRemedy SuggestedRemedy Delete the second instance. Proposed Response Response Status W PROPOSED ACCEPT. Ci 79 SC 79.3.2.2 P76 L 44 # 27 Anslow, Pete Ciena Comment Type E Comment Status M PROPOSED ACCEPT. Ci 79 SC 79.3.2.2 P76 L 44 # 27 Anslow, Pete Ciena Comment Type E Comment Status M Ci 79 SC 79.3.2.2 P76 L 44 # 27 Ciena Comment Type E Comment Status M Anslow, Pete Ciena Ciena SuggestedRemedy SuggestedRemedy SuggestedRemedy SuggestedRemedy SuggestedRemedy SuggestedRemedy SuggestedRemedy SuggestedRemedy SugestedRemedy Comment Type	"TBD 8–255" should be			Editorial	Several table	in Clause 145 h		min or max colur	<i>Editoria</i> nns, which should
Change FID 0-201 to FID 0 10 201 Proposed Response Response Status W PROPOSED ACCEPT. C/ 79 SC 79.3.2 Anslow, Pete Ciena Comment Type E Comment Status D Editorial Editorial SuggestedRemedy Delete the second instance. Proposed Response Response Status W Editorial PROPOSED ACCEPT. Ciena C/ 79 SC 79.3.2 as follows." is there twice. SuggestedRemedy Delete the second instance. Proposed Response Response Status W PROPOSED ACCEPT. C/ 79 SC 79.3.2.2 P76 L 44 Image Figure Figur									
Cl 79 SC 79.3.2 P75 L 31 # 26 Anslow, Pete Ciena PROPOSED REJECT. Comment Type E Comment Status D Editoiral The editing instruction: "Change 79.3.2 as follows:" is there twice. Editoiral The lack of em-dashes is intentional. The em-dash would convey that there is no relavem information, while the lack of the em-dash conveys that there is no specific number. SuggestedRemedy Delete the second instance. Cl 145 SC 145.2.8.5.1 P 162 L 31 # 30 PROPOSED ACCEPT. Cl 79 SC 79.3.2.2 P 76 L 44 27 Anslow, Pete Ciena Comment Type E Comment Status D Editorial Four trailing zeros in Equation 145-15. Four trailing zeros in Equation 145-18. SuggestedRemedy Delete them SuggestedRemedy Anslow, Pete Ciena Ciena Proposed Response Response Status W The second and third sentence in strikethrough font (starting "Type 3 or Type 4 PSEs") is not part of the base standard. SuggestedRemedy Yair, Lennart, what was our conclusion here? Yair, Lennart, what was our conclusion here? Yair, Lennart, what was our conclusion here? Yair, Lennart, what was our conclusio	Proposed Response	Response Status W			Make sure all In particular, 7	tables have a er Tables 145-7, 14			
Comment Type E Comment Status D Eutoinant The editing instruction: "Change 79.3.2 as follows:" is there twice. SuggestedRemedy information, while the lack of the em-dash conveys that there is no specific number. SuggestedRemedy Delete the second instance. Ci 145 SC 145.2.8.5.1 P 162 L 31 # 30 Proposed Response Response Status W Ci 145 SC 145.2.8.5.1 P 162 L 31 # 30 Ci 79 SC 79.3.2.2 P 76 L 44 [27] Anslow, Pete Ciena Comment Status X Editor Comment Type E Comment Status D Editorial SuggestedRemedy Delete them SuggestedRemedy Delete them SuggestedRemedy Delete them Yair, Lennart, what was our conclusion here? Yair, Lennart, what was our conclusion here? Yair, Lennart, what was our conclusion here? Proposed Response Response Status W Yair, Lennart, what was our conclusion here? Yair, Lennart, what was our conclusion here?			L 31	# 26	, ,		bonse Status W		
SuggestedReindoy Anslow, Pete Ciena Proposed Response Response Status W PROPOSED ACCEPT. Four trailing zeros in Equation 145-15. Four trailing zeros in Equation 145-18. Cl 79 SC 79.3.2.2 P76 L 44 Image: Status			is there twice.	Editoiral				,	
PROPOSED ACCEPT. For trailing zeros in Equation 145-15. Cl 79 SC 79.3.2.2 P 76 L 44 # 27 Anslow, Pete Ciena Editorial SuggestedRemedy Comment Type E Comment Status D Editorial The second and third sentence in strikethrough font (starting "Type 3 or Type 4 PSEs") is not part of the base standard. Proposed Response Response Status W SuggestedRemedy Vair, Lennart, what was our conclusion here? Yair, Lennart, what was our conclusion here? Yair, Lennart, what was our conclusion here?		ance.				145.2.8.5.1	-	L 31	# 30
Anslow, Pete Ciena Comment Type E Comment Status D Editorial The second and third sentence in strikethrough font (starting "Type 3 or Type 4 PSEs") is not part of the base standard. SuggestedRemedy TFTD Remove the two sentences starting "Type 3 or Type 4 PSEs" on lines 44 through 47. Proposed Response Response Status W		,			Four trailing z	eros in Equation	145-15.		Editoria
The second and third sentence in strikethrough font (starting "Type 3 or Type 4 PSEs") is not part of the base standard. SuggestedRemedy Remove the two sentences starting "Type 3 or Type 4 PSEs" on lines 44 through 47. Proposed Response Response Status W			L 44	# 27		ly			
SuggestedRemedy Remove the two sentences starting "Type 3 or Type 4 PSEs" on lines 44 through 47. Proposed Response Response Status W	The second and third s	entence in strikethrough fon	t (starting "Type 3			nse Res _l	oonse Status W		
Remove the two sentences starting "Type 3 or Type 4 PSEs" on lines 44 through 47. Proposed Response Response Status W	·	indard.			Yair, Lennart,	what was our co	onclusion here?		
Proposed Response Response Status W	,	nces starting "Type 3 or Type	e 4 PSEs" on line	s 44 through 47.					
		0 11 11							

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

C/ 145 Beia, Christia	SC 145.1.3	P 102 ST Microelect	L 22 ronics	# 31	C/ 145 Beia, Chris	SC 145 tian	.3.8	P 194 ST Microelect	L 6 ronics	# 33
Comment Typ		Comment Status D		Pres: Stover1	Comment			Comment Status D		PD Powe
"VPD is v negative	voltage at the conductor of	PD PI measured between any the corresponding pair.		uctor of a pair and any	Assign	ed Class h	as valu	es from 1 to 8 the assigned Class can be)	
		PSE PI measured between a the corresponding pair."	any positive con	ductor of a pair and any	Suggested	Remedy				
They are	not the same	definitions as used in Clause	933.		Recoll	ocate Class	ses fror	n 1 to 8		
The use of	of "pairset" is	more clear and coherent			Proposed I	Response		Response Status W		
SuggestedRe	emedy				PROP	OSED ACC		N PRINCIPLE.		
Replace t	the called out	text with:			Remov	/e class 0 a	and mo	ve class 3 to sequential orde	er.	
		PD PI measured between any r of the same pairset.	y positive condu	uctor of a pairset and	C/ 145	SC 145	2 0	P 194	L 31	# 34
any nega		r or the same pairset.			Beia, Chris		.3.0	ST Microelect	-	# 34
		PSE PI measured between a	any positive con	ductor of a pairset and	Comment			Comment Status D		PD Powe
		r of the same pairset."					ae valu	es from 1 to 8		FD FOWe
Proposed Re	sponse	Response Status W						the assigned Class can't be	0	
WFP					Suggested	Remedy				
TFTD					Chang					
C/ 145	SC 145.3.8	P 193	L 20	# 32	"PI cap To:	pacitance d	uring N	IDI_POWER states for sing	e-signature PD)s"
Beia, Christia		ST Microelect	-	# <u>52</u>		bacitance d	uring N	IDI_POWER states per ass	gned Class for	single-signature PDs"
Comment Ty		Comment Status D		PD Power	and Cł		•		-	
51		the result of the PD requeste	d Class and the			0 to 4"				
	roduced by the				To:					
	shown in Table				"Class	1 to 4"				
		llues from 1 to 8 5, Item 7 the assigned Class o	an ha O		Proposed I	Response		Response Status W		
		, item 7 the assigned Class c	andeo		PROP	OSED ACC	CEPT IN	N PRINCIPLE.		
SuggestedRe Change	emedy				There	is no reaso	n to ma	ake this dependent upon as	signed class	
	ignature PD,	Class 0 to 6"			There				lighted blabb.	
То	-				Chang					
	ignature PD,					0 to 4"				
	ine 20 and lin				To: "Class	1 to 4"				
Proposed Re		Response Status W			0,033	1.0 -				
PROPOS	SED ACCEPT									

Cl 145 SC 145.3.8 P 194 L 37 # 35 Beia, Christian ST Microelectronics	C/ 145 SC 145.2.7 P 150 L 21 # 36 Beia, Christian ST Microelectronics ST Microelectronics
Comment Type T Comment Status D PD Power Assigned Class has values from 1 to 8 In Table 145-28 Item 14 the assigned Class can be 0	Comment Type T Comment Status X PSE Power PDs assigned Class is not defined Table 145-24 refers to PDs requested Class
SuggestedRemedy Change "Pairset capacitance during MDI_POWER states for dual-signature PDs" To: "Pairset capacitance during MDI_POWER states per assigned Class for dual-signature PDs" and Change: "Class 0 to 4" To:	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)" Proposed Response Response Status
"Class 1 to 4" <i>Proposed Response Response Status</i> W PROPOSED ACCEPT IN PRINCIPLE. No reason to make this dependent on assigned class.	TFTD Christian is right that the table referenced doesn't mention assigned class. However, the PSE needs to calculate Pclass based on the Pclass_PD of the assigned class of the PD. See 37
Change: "Class 0 to 4" To: "Class 1 to 4"	Cl 145 SC 145.2.7 P 150 L 37 # 37 Beia, Christian ST Microelectronics ST Microelectronics PSE Power Comment Type T Comment Status X PSE Power PDs assigned Class is not defined Table 145-25 refers to PDs requested Class PSE Power
	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"
	Proposed Response Response Status W TFTD Christian is right that the table referenced doesn't mention assigned class. However, the PSE needs to calculate Pclass based on the Pclass_PD of the assigned class of the PD. See 36

Cl 145 SC 145.7.3.3 P 256 L 6 # 38 Beia, Christian ST Microelectronics ST Microelectronics ST	C/ 145 SC 145.3.9 P 203 L 10 # 40 Beia, Christian ST Microelectronics
Comment Type T Comment Status D PICS In Item PD69 is used a definition of PDs assigned Class, but refers to PDs request Class SuggestedRemedy Change: "Pair-to-pair unbalance for single-signature PDs assigned Class 5 or higher" To: "Pair-to-pair unbalance for single-signature PDs required Class 5 or higher"	Comment Type T Comment Status D PD MPS Assigned Class has values from 1 to 8 In Table 145-31 Item 1 the assigned Class can be 0 SuggestedRemedy SuggestedRemedy Change: "Class 0 to 4" To: "Class 1 to 4" Response Status W PROPOSED ACCEPT. W PROPOSED ACCEPT.
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Why is this dependent on class at all? The shall in 145.3.8.10 is not. Change: "Pair-to-pair unbalance for single- signature PDs assigned Class 5 or higher" To: "Pair-to-pair unbalance for single- signature PDs"	C/ 145A SC 145A.3.2 P 267 L 26 # 41 Bennett, Ken Sifos Technologies, In Sifos Technologies, In Pres: Bennet1 Comment Type T Comment Status X Pres: Bennet1 This addresses the TODO for draft 2.3, #130,#151. The Effective resistance RPSE measurement in Annex 145A.3.2 was evaluated. SuggestedRemedy SuggestedRemedy See bennett_01_0517.pdf Proposed Response Response Status W WFP WFP V V V
Cl 145 SC 145.3.6.1 P 190 L 42 # 39 Beia, Christian ST Microelectronics Comment Type T Comment Status D PD Class Table 145-25 refers to Pclass_PD-2P then the relevant note should be changed accordingly SuggestedRemedy Change: "NOTE—PDs may be assigned to a lower Class than the PD requested Class, which results in a lower value of Pclass_PD." To: "NOTE—PDs may be assigned to a lower Class than the PD requested Class, which results in a lower value of Pclass_PD.2P." Proposed Response Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT.	TFTD Cl 145 SC 145.2.5.7 P 132 L 16 # 42 Darshan, Yair Mirosemi Comment Type ER Comment Status D PSE SD Editor to scan all state machines (PSE, PD, DLL) and whenever we have "variable <operator>X" e.g. "pd_class_sig=4" add parantesis e.g. "(pd_class_sig=4)". SuggestedRemedy Adopt request in the comment Proposed Response Response Status W PROPOSED REJECT. This is the rule that we have been using. If you have a specific instance of where we have missed it, please submit a specific comment.</operator>

C/ 145 SC 145.2.5.7 P 132 Darshan, Yair Mirosemi	L 33	# 43	C/ 145 SC 145.2.7 Darshan, Yair	P 151 Mirosemi	L 15	# 45
Comment Type TR Comment Status X TODO #115 D2.3. Comment: On January 2017 r yseboodt_0117.pdf page 3 we will use optional va (Option 1 and 2) and update the state machine ar Response: Add TODO (Yair): Create proposal for available power = 4. SuggestedRemedy Adopt darshan_10_0517.pdf Proposed Response Response Status W WFP	ariables to allow 2 to cordingly to add to	fingers and 3 fingers o PSE flexibility.	Comment Type TR There are significant 145-11 to the calcula	Comment Status X differences between the fixed v ated Pclass per equation 145-2 the calculated value is 27.37W	2. See for exampl	
TFTD C/ 145 SC 145.2.5.7 P138	L 17	# 44	<i>Cl</i> 145 SC 145.2.7 Darshan, Yair	P 151 Mirosemi	L 45	# 46
Darshan, Yair Mirosemi Comment Type TR Comment Status X TODO #253 D2.3 PSE Class SD for dual-signatur recent developments in single-signature Class SI inconsistent with the notion that pd_req_pwr and (not 4) class events. Also, the "pse_allocated_pw dual-signature Class SD. SuggestedRemedy Adopt darshan_11_0517.pdf if ready. If not ready, keep in TODO. Proposed Response Response Status W WFP WFP W	 Particularly, stat therefore pd_cls_4 	e CLASS_4PID4 is pid are known after 3	on the value of the PSEAllocated-Power PClass_PD; see Tab SuggestedRemedy Change text to: "After a successful D of the PSEAllocatedP PSEAllocatedPower\ 145–12. The PSEAlloc	Comment Status X ccessful DLL classification, the SEAllocatedPowerValue variat Value values correspond with t le 145–24 and 145.5.3.3.5.", m LL classification, the assigned PowerValue variable when sing /alue_alt(X) when dual-signatu pocatedPowerValue and PSEAll wer a PD may draw, PClass_F id 145.5.3.3.5." Response Status W	ble, as defined in the maximum po hissing PSEAlloc Class changes o le-signature PD ire PD is support ocated-PowerVa	Table 145–12. The wer a PD may draw, atedPowerValue_alt(X). depending on the value is supported and ed, as defined in Table lue values correspond
TFTD			technically, OoS			

Cl 145 SC 14 Darshan, Yair	15.2.8	P 156 Mirosemi	L 25	# 47	<i>Cl</i> 145 Darshan, Ya		145.2.8.5.1	P 162 Mirosemi	L 15	# 50
Comment Type	TR	Comment Status X		Pres: Darshan13	Comment Ty	/pe	т	Comment Status X		Unbalance
darshan_13_05 SuggestedRemedy	17pdf. _13_0517.	alance in Table 145-16 can pdf if ready. If not ready, ac Response Status W	·		1. The e "The PS RPSE_r connect exceed	xisting E PI p nin er ors) a Con-2	g text, p162 pair-to-pair ensures that a and the PD, 2P-unb as d	effective resistance unbalar along with any other parts of the pairset with the highes efined in Table 145–16 du	nce determined of the system, i. t current includi	by RPSE_max and e. channel (cables and ng unbalance does not
TFTD					"RPD_m	iin, Rİ	g text, p201 PD_max en:	sures that along with any o	ther parts of the	e system, i.e., channel
C/ 145 SC 14 Darshan, Yair	15.2.8	P 156 Mirosemi	L 27	# 48		ed IC	on-2P-unb a	and the PSE, the maximum as defined in Table 145–16		
Comment Type T TODO #129, #1	and ILIM-:	Comment Status X To verify after all unbalance 2P are sync with Table 145			There is address Manual <https: <="" td=""><td>an is ed in s devel</td><td>sue based o subclause 1</td><td>I got from David Law: on 'ensure' being a possible 0.2.5 "Absolute" verbiage' ndards.ieee.org/myproject/</td><td>of the IEEE-SA</td><td>Standards Style</td></https:>	an is ed in s devel	sue based o subclause 1	I got from David Law: on 'ensure' being a possible 0.2.5 "Absolute" verbiage' ndards.ieee.org/myproject/	of the IEEE-SA	Standards Style
Adopt darshan_ Proposed Response WFP TFTD		.pdf if ready. If not ready, ac <i>Response Status</i> W	ldto TO DO list.		10.2.5 " Avoid m altering docume For exar	aking an ou nt, es nple,	tcome. Revi pecially thos words such	e if there is a possibility of u ew the text for any explicit se that are safety-related. as "ensure," "guarantee," titutions might include "ma	or implicit guara 'always," etc., s	antees made within the hould be modified if
arshan, Yair Comment Type	I5.2.8.5 TR eak-2P u	P 161 Mirosemi Comment Status X Inb max value is in sync wit	L 44	# 49 Pres: Darshan7	Base on 1. This i 2. The s	the a s not a tatem	a safety req ient that use	uirements ===> no issues "ensures" is accurate und tely. To achieve the accura	er the condition	s of the statement itself
uggestedRemedy			. (SuggestedR					
Addopt darshan Proposed Response WFP TFTD		7.pdf if ready. If not ready, a <i>Response Status</i> W	add to TO DO list.		"The PS RPSE_r connect and the including normal o 2.Modify "The PD	y the E PI p ors the PD (the pperate the e PI pa	pair-to-pair en nsures that a at meets Ro hat meet 14 alance does ting conditio existing text air-to-pair ef	in p162 L15 to: effective resistance unbalar along with any other parts of th_unb_min and Rch_unb_ 5.3.8.10 requirements), the not exceed ICon-2P-unb a ns." in p201 L39: fective resistance unbalance long with any other parts of	of the system, i. max requireme pairset with the s defined in Ta ce determined b	e, channel (cables and nts per Table 145-17) e highest current ble 145–16 during by RPD_min and
	S: D/dispa	ER/editorial required GR/g atched A/accepted R/reject			general			Comme	the system, i.e	e., channel (cables and Page 10 of 72 4/28/2017 2:10

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."

Proposed Response	Response Status	w

TFTD

Option 1 still has the word ensures in it. Option 2 sentences do not make sense.

See 106, 139

Darshan, Y	aır		Miros	emi	L 48	# 51
**load* 145–22	ext bel shall * as sh 2, using	ow: not source own in Figu g values of		P-unb min	as specified in I	<i>Edito</i> en connected to a Equation (145–16) an
connec	e text to	o "A PSE s the **PSE I	hall not source mo oad** as shown in in Equation (145–1	Figure 14	5–22, using val	lues of Rload_min an
Proposed I TFTD	Respor	ise	Response Status	w		
What is	s a "PS	E load?"				

Technically, OoS.

	'air	.2.8.5.1	P 1 Miros		L 6	# 52
model.	#129 #15 This value	2 D2.3 Table		ain resista		Pres: Darsi ctual test verification 2P_unb will be kep
Suggested Adopt	•	8_0517.pdf if	ready. If not	ready, ac	ldto TO DO list.	
Proposed I WFP	Response	Resp	onse Status	w		
TFTD						
C/ 145 Darshan, Y	SC 145 ′air	.2.8.5.1	P 1 Miros		L 38	# 53
Equation	riable nam on 145-16			inb_max,		Edi and Rpair_PD_max
To: Rlc 2. Cha To: Rlc	oad_min=R nge Equati oad_max=F	pd_min+Rch on 145-17 frc Rpd_max+Rc	_unb_min om: Rload_m h_unb_max:	_ ax=Rair_l	PD_min+Rchunb PD_max+Rchun	_
Proposed I PROP	Response OSED ACC	•	onse Status	W		
<i>Cl</i> 145 Darshan, Y	SC 145 ′air	.2.8.5.1	P 1 Miros		L 4	# 54
Commont		<i>Con</i> 5-22 per dars	nment Status shan_09_051			Pres: Darsi
Comment Comment	, i iguic i 4					
Update Suggested	Remedy	9_0517.pdf				
Update Suggested	Remedy darshan_0		oonse 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 145.2.8.5.1 Darshan, Yair	P 164 L 20 Mirosemi L 20	# 55	Cl 145 SC Darshan, Yair	145.3.3.7	P 179 Mirosemi	L 23	# 57
Comment Type T Comment St	tatus X	Pres: Darshan9	Comment Type	TR	Comment Status D		PD Class
TODO#370 D2.3. Comment: Figure 145-22 is titled "PSE replace the abbreviation with "PSE PI of unbalance". Also remove the two occu replace by remedy text. Respose: check correct usage of these	unbalance specification and urences of this abbreviation	d system resistance n in Annex 145A and	that it is not a class signatu Cahnge pres A=FALSE an in the state ju	actual DO_(ire or we ma ent_class_s id B=TRUE ust present_	state the present_class_si CLASS_EVENT. I understa ay not have it so in order to sig_A and present_class_si or A=FALSE and (B=FALS class_sig_A <==FALSE ar n be FALSE or TRUE.	nd that during th be flexible we c g_B to all possit E or TRUE) whi	his time we may have an do the following: ble combinations i.e ich results with keeping
SuggestedRemedy			SuggestedReme	dv			
Adopt darshan_09_0517.pdf				•	_sig_B<==TRUE" fron the s	state.	
Proposed Response Response Sta	tatus W		Proposed Respo		Response Status W		
WFP			PROPOSED		Response Status W		
TFTD			FROFUSED	REJECT.			
C/ 145 SC 145.3.2 Darshan, Yair M Comment Type TR Comment St	P 172 L 16 Mirosemi	# 56 PD Types	whatever we	want during protocol ag	to give the PD a known bel g extra class pulses we clos gain (I know, we don't plan o ssibility).	e off the ability t	to ever extend the
"The PD shall be implemented to be in		51	C/ 145 SC	145.3.3.7	P 179	L 44	# 58
Mode." the intent is the PD shall be im if it is working on 2-pairs or 4-pairs i.e.	plemented to be insensitive	e to the polarity regardless	Darshan, Yair Comment Type	TR	Mirosemi Comment Status D		PD SD
mode B etc.			51		comparison in powered to p	nower undate st	
SuggestedRemedy						jower_update st	
Change the text from: "The PD shall be power supply on either Mode." To "The PD shall be implemented to be				"pd_power	_update * pd_dll_enabled * pd_dll_enabled * (VPD ≥ V		D"
mode A and Mode B."			Proposed Respo	nse	Response Status W		
Proposed Response Response Sta PROPOSED ACCEPT IN PRINCIPLE.			PROPOSED				
FROPOSED ACCEPT IN FRINCIPLE.	•		C/ 145 SC	145.3.8	P 193	L 40	# 59
OBE by 232			Darshan, Yair	145.5.0	Mirosemi	L 40	# 39
			Comment Type	ER	Comment Status X		Editorial
			In Table 145- clear. What is "PD		Inrush to PD current contro	l delay". This pa	arameter name is not
			SuggestedReme	dv	-		
					ggest better definition.		
			Proposed Respo		Response Status W		
			TFTD as req	uested			
TYPE: TR/technical required ER/editorial r COMMENT STATUS: D/dispatched A/acc				a atiafia d. 7		ent ID 59	Page 12 of 72 4/28/2017 2:16

12 of 72 017 2:16:03 PM

C/ 145 SC 145.3.8.2 P 195 L Darshan, Yair Mirosemi	46 # <u>60</u>	C/ 145 SC 145.3.8.6 P 198 L 25 # 61 Darshan, Yair Mirosemi
Comment Type TR Comment Status D In the text "PDs may also adjust their maximum required op PClass_PD or PClass_PD-2P by using Autoclass (see 145 only for single-signature. Delete "or Pclass_PD-2P"		Comment Type TR Comment Status X 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: ??
SuggestedRemedy Change from: "PDs may also adjust their maximum require operating power below PClass_PD or PClass_PD-2P by us To "PDs may also adjust their maximum required operating power below PClass_PD by using Autoclass (see Proposed Response Response Status PROPOSED REJECT.	ing Autoclass (see 145.3.6.2)." .	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 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
PDs operating over 2 pairs can still use this feature.		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". Thi is no longer true, because PDs can be demoted to an assigned class with different TLim and ILim characteristics.
		SuggestedRemedy See Fred's suggested remedy. If not ready, keep it in TODO Proposed Response Response Status W WEP
		TFTD

C/ 145	SC 145.3.8.	10 <i>P</i> 200	L 34	# 62	C/ 145	SC 145.3	.8.10	P 201	L 4	# 64
Darshan, Ya	air	Mirosemi			Darshan, `	Yair		Mirosemi		
Comment Ty	ype TR	Comment Status D		Editorial	Comment	Type ER	Cor	nment Status D		Editoria
the effect	cts of PD pair in and measure	e 145A–1. Effective resistance to pair voltage difference and ements in Annex 145A." there	the PD PI resist	ive elements. See	effecti Suggested	ve resistance IRemedy	s at", th	strates the relationship e figure number shold	l be 145A-2 and	not 145A-1.
include t	from "See Fig	ure 145A–1. Effective resista	_	_	effecti To " Ir	ve resistance	s at" ure 145A–	2 illustrates the relatio		PD_max and RPD_min RPD_max and
definitior To "See	n and measure Figure 145A-	air voltage difference and the ements in Annex 145A." 4. Effective resistances of RI air voltage difference and the	PD_min and RPI	D_max include the	,	Response OSED ACCE	,	oonse Status W		
		ements in Annex 145A.4."			C/ 145	SC 145.3	.8.10	P 201	L 8	# 65
Proposed Re	esponse	Response Status W			Darshan, `	<i>Y</i> air		Mirosemi		
PROPO	SED ACCEPT	Г.			Comment	Type TR	Cor	nment Status X		Pres: Darshan
unbalan that mee SuggestedR Change To "PDs Proposed Re	ype TR ext "PDs that m ce requiremenent et Equation (14 Remedy from "PDs that is that meet Eq	Mirosemi <i>Comment Status</i> D neet Equation (145–26) intrinsits.", it is not clear which unbu- 45–26) intrinsically meet all F at meet Equation (145–26) intri uation (145–26) intrinsically r <i>Response Status</i> W	alance requireme D unbalance rec rinsically meet u	uirements." nbalance requirements."	on any 1) IPe 2) Equ is not design the fac knowle minim As a r 2P_ur values march	y pair when P ak-2P-unb is jation 145-12 the maximum ed to the ma ct that the PD edge of PSE um voltage w esult of the a ib and Ipeak- that are a fu for the comr	D PI pairs. not defined belongs to 1 lpeak-2P ximum Ipe 0 doesn't co voltage an voltage an voltage argur 2P_un i.e. nction of P nent #320	_unb since it depends ak-2P_unb (and also t ontrol the actual Ipeak d more important, they eate the maximum po nents we need to defir	blems that make defined by Equ the actual Ipeal on PSE voltage to the maximum -2P-unb since it y can be connec issible current. he new PD para Ipeak_PD-2P_u s we did per the podt_08_0315_p	es the spec broken: lation 145-12. k-2P_unb current which e. PDs must be lcon-2P_unb) due to doesn't have the sted to PSE with the meters name to lcon- unb with fixed maximum concept we adopt on beakunbalance.pdf
Out of S	Scope for an eo	ditorial change. The existing	text is clear.		Suggested Adopt	<i>Remedy</i> darshan_04_	_0517.pdf			
					Proposed WFP	Response	Res	oonse Status W		
					TFTD					

C/ 145 SC	145.3.8.10	P 201	L 12	# 66	C/ 145 SC	145.4.1	P 204	L 16	# 68
Darshan, Yair		Mirosemi			Darshan, Yair		Mirosemi		
Comment Type	т	Comment Status D		PD Unbalance	Comment Type	ER	Comment Status X		Pres: Peker1
	e to this con ow to deal w	nment was: "ACCEPT IN Pf ith DS unbalance (Icon-2p) 3]."			60950-1 and l not specify sir	IEC 6236 milar IEC	external conductors are spec 8-1.", standard specifies IEC 62368-1 subclause. nould add subclause of IEC62	60950-1 subcla	
		ion item (Agreed by Lennart 3 has been resolved compl		wing adopted	SuggestedRemed Adopt Arkadiy	•	7.pdf		
baselines:		If adopted per comment #32	, ,	0	Proposed Respon	ise	Response Status W		
D2.3 (145.3.	8.10 text Ico	n_pd-2P=Pclass_PD-2P/Vp	od)	C C	WFP				
145.3.8.2 an	d 145.3.8.4	al.pdf per comment 167 reg which also addresses some	of the concern	s that I had in	TFTD				
		nt #164 D2.3 and was withd integrity of the proposal in d			C/ 145 SC	145.4.1	P 204	L 16	# 69
		SED BY COMMENT #320			Darshan, Yair		Mirosemi		
		by comment #320 D2.3 and larshan 12 is covered by da			Comment Type	ER	Comment Status X		Pres: Peker1
does.		arshari_12 is covered by da	irshan_09 and y	Sebudut_06 which it	In the text "Ac	cessible	external conductors are speci	ified in subclaus	e 6.2.1 b) of IEC
SuggestedReme	edv						8-1.", the 802.3bt requires to		
No change to	o the spec is	s required.					n by the end of 2018) and IE need to satisfy just one of thi		
Proposed Respo	onse	Response Status W			change AND	to ÓR.			
PROPOSED	ACCEPT.				SuggestedRemed	ły			
					Adopt Arkadiy	/_01_051	7.pdf		
-	145.3.8.10	P 201	L 13	# 67	Proposed Respon	nse	Response Status W		
Darshan, Yair		Mirosemi			WFP				
Comment Type	ER	Comment Status D		Editorial	TFTD				
(145–28) for	longer than	re PDs shall not exceed ICo TCUT-2P min and 5 % duty ak_PD-2P on any pair"	v cycle, as defin	ed in Table 145–16,					
SuggestedReme	edy								
	-	re PDs shall not exceed ICc	on_PD-2P as de	fined in Equation					
(145-28) for	longer than	TCUT-2P min and 5 % duty	v cycle as defin	ed in Table 145–16					

(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....."

Proposed Response Response Status W

PROPOSED ACCEPT.

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

Darshan, Yair Mirosemi Darshan, Yair Mirosemi Comment Type TR Comment Status X Pres: Peker In the text This electrical isolation shall withstand at least one of the following electrical isolation. Mirosemi Mirosemi Customers may argue (and we have many such cases) that a product meet UL/IEC electrical isolation requirements but does not meet IEEEB02.3. Customers believes that i electrical isolation requirements are differential to the stand be at least 20 Mohr. measured at 500. Mirosemi YDTE 4 Components providing a d. c. path in parallel with the insulation to be tested, such as discharge resistor of rither eapacitors, voltage limiting devices or surge suppressors, should be disconnected." Darshan, Yair Mirosemi The requirements which allow to remove components as in Note 4 should be added to IEE66023. The science allowed in IEC 60500-1 f.22 Kore 4 as follows: " Notice free apactrons, voltage limiting devices or surge suppressors, should be does on surge suppressors or at least IEEE802.3 bis should have clear referal on this subject to IEE660050 or IEC62288. For requirements which allow or to remove components as in Note 4 should be added to Ecose allow of the impulses, by observation of oscillograms. Surge suppressors is permitted when the surge suppressor are left in phase. A clear the test shall be at least 20 Mohr. WFP TFTD For requirements which allow or to recomponents as in Note 4 should be added to be allow or to recomponent as at in the insulation resistance etc. Disconnection of the impulses, by observation of oscillograms. Surge suppressors are lef	Comment Type TR Comment Status X Pres: Peker1 Con- 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 IEEC60950 or IEC62368. SuggestedRemedy Mdopt Arkadiy_01_0517.pdf Proposed Response Response Status W WFP TFTD		C 145.4.1		P 204	L 27	# 71
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 equirements are on the elt IEEE802.3. Customers believes that IEEE802.3 requirements are more stringent that UL/IEC and does not allow to remove protective components as it allowed in IEC 60504 for components as in Note 4 chould be added to IEEE spece: or at least IEEE802.3 but should have clear referat on this subject to IEEC 60505 for IEC 60505	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. 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 IECE0950 or IEC62368. SuggestedRemedy Adopt Arkadiy_01_0517.pdf Proposed Response Response Status W WFP TFTD	Yair			Mirosemi		
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 but does not meet IEEE802.3. Customers believes that isolation requirements are different than for c) impuse test. TwoTE 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 speces or at least IEEE802.3bt should have clear referal on this subject to IEEC speces or at least IEEE802.3bt should have clear referal on this subject to IEEC speces or at least IEEE802.3bt should have clear referal on this subject to IEEC speces or at least IEEE802.3bt should have clear referal on this subject to IEEC speces or at least IEEE802.3bt should have clear referal on this subject to IEEC speces or at least IEEE802.3bt should have clear referal on this subject to IEEC speces or at least IEEE802.3bt should have clear referal on this subject to IEEC speces or at least IEEE802.3bt should have clear referal on this subject to IEEC speces or at least IEEE802.3bt should have clear referal on this subject to IEEC speces or at least IEEE802.3bt should have clear referal on this subject to IEEC speces or at least IEEE802.3bt should have clear referal on this subject to IEEC speces or at least IEEE802.3bt should have clear referal on this subject to IEEC speces or at least IEEE802.3bt should have clear referal on this subject to IEEC speces or at least IEEE802.3bt should have clear referal on this subject to IEEC speces or at least IEE802.3bt should have clear referal on this subject to IEE802.3bt should have clear referal on this subject to IEE802.3bt should have clear referal on this subject to IEE802.3bt should have c	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 Adopt Arkadiy_01_0517.pdf Proposed Response Response Status W WFP TFTD	t Type	TR	Comme	nt Status X		Pres: Peker
WFP		E802.3t o insula ring the ". This ever a) : uiremen re shall we occu ge rapic low of c equirem impulse ring the ation or er applic e suppro ge is 500 b less th tance s efore IE sured at herefore becify co irement: edReme ot Arkad	bt has follo tition break e test. The compliance and b) conts and b) c	down, as dei resistance a ce criteria a mpliance re b) compliance sulation brea the current cer paragraph mage to insu n of the impulsi- permitted wh r, if surge su ge suppress a less than 2 rements that "referring ju- nce critea sh r case a) and 0950 or IEC6	fined in subclause after the test shall plies for a) and lequirements are discontrolled manner akdown during test that flows as a re- controlled manner h 6.2.23 IEC6095 ulation is verified in ulses, by observa- isulation is judged test, by an insulation is pressors are left for operating or st $M\Omega$." t" The resistance ist to impulse test hould be removed d b) and separate 52368.	e 5.2.2 of IEC 60 I be at least 2 M b) and c) electric lifferent than for aragraph 5.2.2 IE st. Insulation bre- esult of the applic r, that is the insu 60-1: in one of two way ation of oscillograd from the shape on resistance tes stance is being r ft in place, a d.c. triking voltage. T e after the test sh t c) and not to se d at all from IEEE	ngth test: "There shall 1950-1 and IEC 62368- ohm, measured at 500 cal test procedures. c) impulse test. (C60950: akdown is considered cation of the test lation does not restrict ws, as follows: ams. Surge suppressor of an oscillogram. st. Disconnection of measured. The test test voltage that is 'he insulation all be at least 2 Mohm, steady stay tests a) and E802.3bt or it need to
TFTD		•		Respons			
		C					

Cl 145 SC 145.4.1 P 204 L 27 # 72 Darshan, Yair Mirosemi	Cl 145 SC 145.5.3.6.2 P 228 L 26 # 74 Darshan, Yair Mirosemi
omment Type ER Comment Status X Pres: Peker1	Comment Type TR Comment Status X Pres: Darshan2
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.	 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
uggestedRemedy	Proposed Response Response Status W WFP
Adopt arkadiy_01_0517.pdf.	
roposed Response Response Status W	TFTD
WFP	C/ 145 SC 145.5.3.6.2 P 228 L 30 # 75
TFTD	Darshan, Yair Mirosemi
	Comment Type TR Comment Status D DL
Varshan, Yair Mirosemi Comment Type TR Comment Status D DLL pse_power_update variable is used by the state machine but is missing from the variable list in the PSE section. D D	 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:"
SuggestedRemedy	
Copy the variable pse_power_update from 145.2.5.4 into 145.5.3.3.2 Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	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 A and Alternative B."
Copy with editorial license as reference to Figure is not needed.	Proposed Response Response Status W
	PROPOSED 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."

Cl 145 SC 145.5.3.6.2 Darshan, Yair	P 229 Mirosemi	L 18	# 76	Cl 145 Darshan
Comment Type E Cou The text "When a PD mode is baseline in darshan_03_0317		shall be set to ze	DLL ero." was not in the	Commen The darsl
SuggestedRemedy Remove "When a PD mode Proposed Response Res PROPOSED ACCEPT.	is not active, the value ponse Status W	shall be set to z	zero."	Suggeste Char signa To "F dual-
Cl 145 SC 145.5.3.6.2 Darshan, Yair	P 229 Mirosemi	L 34	# 77	Proposed TFTI
Comment Type TR Col	mment Status X		Pres: Darshan1	That
In the text "pse_dll_ready_alt that the PSE has initialized D aLldpXdot3LocReady attribut 1) the aLldpXdot3LocReady aLldpXdot3LocReadyB" (they variable list. 2) The aLldpXdot3LocReady/ 3) The aLldpXdot3LocReady/ 4. The link for 30.12.2.1.20 is signature DLL state machine SuggestedRemedy Adopt darshan_01_0517.pdf	ata Link Layer classific e (30.12.2.1.20)." the need to be "aLldpXdot3 are already used in th A and aLldpXdot3LocR A, aLldpXdot3LocRead correct for aLldpXdot3 and is incorrect for the	ation. This varia re are few upda 3LocReadyA an e DLL state ma eadyB are not c yB are not inclu 8LocReady whic	able maps into the tes need to be made: d chine and exist in the defined in clause 30. ded in Table 30-7. h is used for single-	C/ 145 Darshan, Commen In the indic varia upda 1) the aLldp varia 2) Th 3) Th
Proposed Response Res WFP	ponse Status W			4. Th signa
TFTD				Suggeste Adop
				Propose WFF

C/ 145	SC ·	145.5.3.6.5	P 2 :	31	L 51	# 78	
Darshan, Y	/air		Miros	emi			
Comment	Туре	TR	Comment Status	Х			DLL
	0	for the title o 0317Rev007	of figure 145-45 wa F.pdf	s not	implemented per		
Suggested	Remed	ly					

ange from "Figure 145–45–PSE power control state diagram when connected to a dualnature PD"

'Figure 145–45–PSE power control state diagram Alternative (X) when connected to a I-signature PD mode (X)"

ed Response Response Status W

D

t new title is quite confusing.

C/ 145	SC 145.5.3.7.2	P 233	L 29	# 79
Darshan, `	Yair	Mirosemi		

nt Type TR Comment Status X Pres: Darshan1

ne text" pd_dll_ready_mode(X) An implementation-specific control variable that cates that the PD has initialized Data Link Layer classification for mode(X). This able maps into the aLldpXdot3LocReady attribute (30.12.2.1.20)." there are few ates need to be made:

he aLldpXdot3LocReady need to be "aLldpXdot3LocReadyA and

dpXdot3LocReadyB" (they are already used in the DLL state machine and exist in the able list.

he aLldpXdot3LocReadyA and aLldpXdot3LocReadyB are not defined in clause 30. he aLldpXdot3LocReadyA, aLldpXdot3LocReadyB are not included in Table 30-7. he link for 30.12.2.1.20 is correct for aLldpXdot3LocReady which is used for singlenature DLL and is incorrect for the dual-signature PD.

tedRemedy

pt darshan_01_0517.pdf

ed Response Response Status W

Р

D

Cl 145 SC 14 Darshan, Yair	45.5.3.7.5	P 234 Mirosemi	L 51	# 80	C/ 145A SC 14 Darshan, Yair	45A.3	P 266 Mirosemi	L 34	# 82
Comment Type	T Com	ment Status X		DLL	Comment Type	ER	Comment Status X		Anne
darshan_03_03	317Rev007F.pdf	re 145-46 was not im	plemented per		PSE PI as spec	cified by Ec	2 illustrates the relationship quation (145–15) and Rloa ax and Rload_min are spe	, ad_min and Rloa	ad_max as specified in
SuggestedRemedy		Dual-signature PD p	ower control stat	to diagram"	145-17 and Ta	ble 145–17	7 and not just Table 145-1	7.	
		iture PD power contr			SuggestedRemedy				
Proposed Respons TFTD	se Respo	onse Status W			of a PSE is met	t with Rloa nb is met v	balance requirements (RP d_max and Rload_min as with Rload_max and Rload fable 145–17."	specified in Tab	ble 145–17."
Waiting for out	tcome of 78				Proposed Response		Response Status W		
C/ 145A SC 14	45A.3	P 266	L 23	# 81	TFTD				
Darshan, Yair		Mirosemi			The comment a	and surges	sted remedy don't seem to	match	
Comment Type	ER Com	ment Status D		Annex		ind sugget		o maton.	# 83
a PSE is met w issues:	with Rload_max a		ecified in Table	145–17." we have few	C/ 145A SC 14 Darshan, Yair	TR	Mirosemi		
a PSE is met w issues: 1. Rload_max a Table 145–17 a 2. Rpese_min a conform only to Rload_min. 3. Current unba wrong. SuggestedRemedy Change from "(of a PSE is me	with Rload_max a and Rload_min a and not just Tabl and Rpse_max is o Equation 145-1 alance requireme / Current unbalance et with Rload_ma	and Rload_min as sp are specified in Equat e 145-17. s not met with Rload 5. Only Icon-2P_unb ents are plural and ye ce requirements (RP x and Rload_min as	ecified in Table f tion 145-16, Equ _max and Rload o need to be met et there is "is me SE_min, RPSE_ specified in Tabl	145–17." we have few uquation 145-17 and I_min. They need to with Rload_max and et with" which is max and ICon-2P-unb) le 145–17."	Darshan, Yair Comment Type TODO#151, #1 SuggestedRemedy It is KEN TODO Proposed Response PROPOSED AC OBE by 41). If not imp e // CCEPT IN	Comment Status D eed to verify by simulation plemented yet, keep in TC <i>Response Status</i> W PRINCIPLE.	DDO.	
a PSE is met w issues: 1. Rload_max a Table 145–17 a 2. Rpese_min a conform only to Rload_min. 3. Current unba wrong. SuggestedRemedy Change from "(of a PSE is me To "Current unl are met with Rl	with Rload_max a and Rload_min a and not just Tabl and Rpse_max is o Equation 145-1 alance requireme / Current unbalance et with Rload_ma ibalance requiren load_max and Rl	and Rload_min as sp are specified in Equat e 145-17. s not met with Rload 5. Only Icon-2P_unb ents are plural and ye ce requirements (RPS x and Rload_min as nents (RPSE_min, R	ecified in Table f tion 145-16, Equ _max and Rload o need to be met et there is "is me SE_min, RPSE_ specified in Tabl PSE_max and I0	145–17." we have few uquation 145-17 and I_min. They need to with Rload_max and et with" which is _max and ICon-2P-unb)	Darshan, Yair Comment Type TODO#151, #1 SuggestedRemedy It is KEN TODO Proposed Response PROPOSED A	30 Wene 0. If not imp e / CCEPT IN	Comment Status D eed to verify by simulation plemented yet, keep in TC Response Status W		test model is working. # <u>84</u>
a PSE is met w issues: 1. Rload_max a Table 145–17 a 2. Rpese_min a conform only to Rload_min. 3. Current unba wrong. SuggestedRemedy Change from "C of a PSE is me To "Current unl are met with RI 17, and Table 1	with Rload_max a and Rload_min a and not just Tabl and Rpse_max is o Equation 145-1 alance requireme / Current unbalance t with Rload_ma ibalance requiren load_max and Rl 145–17."	and Rload_min as sp re specified in Equat e 145-17. s not met with Rload 5. Only Icon-2P_unb ents are plural and ye ce requirements (RPS x and Rload_min as nents (RPSE_min, R load_min as specified	ecified in Table f tion 145-16, Equ _max and Rload o need to be met et there is "is me SE_min, RPSE_ specified in Tabl PSE_max and I0	145–17." we have few uquation 145-17 and I_min. They need to with Rload_max and et with" which is max and ICon-2P-unb) le 145–17." Con-2P-unb) of a PSE	Darshan, Yair Comment Type TODO#151, #1 SuggestedRemedy It is KEN TODO Proposed Response PROPOSED AC OBE by 41 Cl 145A SC 14 Darshan, Yair	30 Wene 0. If not imp e / CCEPT IN	Comment Status D eed to verify by simulation plemented yet, keep in TC Response Status W PRINCIPLE. P 268	DDO.	
a PSE is met w issues: 1. Rload_max a Table 145–17 a 2. Rpese_min a conform only to Rload_min. 3. Current unba wrong. SuggestedRemedy Change from "C of a PSE is me To "Current unl are met with RI 17, and Table 1	with Rload_max a and Rload_min a and not just Tabl and Rpse_max is o Equation 145-1 alance requireme / Current unbalance twith Rload_ma ubalance requiren load_max and Rl 145–17." se Respo	and Rload_min as sp are specified in Equat e 145-17. s not met with Rload 5. Only Icon-2P_unb ents are plural and ye ce requirements (RPS x and Rload_min as nents (RPSE_min, R	ecified in Table f tion 145-16, Equ _max and Rload o need to be met et there is "is me SE_min, RPSE_ specified in Tabl PSE_max and I0	145–17." we have few uquation 145-17 and I_min. They need to with Rload_max and et with" which is max and ICon-2P-unb) le 145–17." Con-2P-unb) of a PSE	Darshan, Yair Comment Type TODO#151, #1 SuggestedRemedy It is KEN TODO Proposed Response PROPOSED AC OBE by 41 CI 145A SC 14 Darshan, Yair Comment Type	30 We ne D. If not imp e CCEPT IN 45A.4 ER clause 145	Comment Status D eed to verify by simulation plemented yet, keep in TC Response Status W PRINCIPLE. P 268 Mirosemi Comment Status D GA.4 was not implemented	DDO. <i>L</i> 16	# 84 Editori
a PSE is met w issues: 1. Rload_max a Table 145–17 a 2. Rpese_min a conform only to Rload_min. 3. Current unba wrong. SuggestedRemedy Change from "(of a PSE is me To "Current unl are met with RI 17, and Table 1 Proposed Respons	with Rload_max a and Rload_min a and not just Tabl and Rpse_max is o Equation 145-1 alance requireme / Current unbalance twith Rload_ma ubalance requiren load_max and Rl 145–17." se Respo	and Rload_min as sp re specified in Equat e 145-17. s not met with Rload 5. Only Icon-2P_unb ents are plural and ye ce requirements (RPS x and Rload_min as nents (RPSE_min, R load_min as specified	ecified in Table f tion 145-16, Equ _max and Rload o need to be met et there is "is me SE_min, RPSE_ specified in Tabl PSE_max and I0	145–17." we have few uquation 145-17 and I_min. They need to with Rload_max and et with" which is max and ICon-2P-unb) le 145–17." Con-2P-unb) of a PSE	Darshan, Yair Comment Type TODO#151, #1 SuggestedRemedy It is KEN TODO Proposed Response PROPOSED AC OBE by 41 CI 145A SC 14 Darshan, Yair Comment Type The title of subc	30 We ne D. If not imp e CCEPT IN 45A.4 ER Clause 145 17Rev008	Comment Status D eed to verify by simulation plemented yet, keep in TC Response Status W PRINCIPLE. P 268 Mirosemi Comment Status D GA.4 was not implemented	DDO. <i>L</i> 16	# 84 Editori
a PSE is met w issues: 1. Rload_max a Table 145–17 a 2. Rpese_min a conform only to Rload_min. 3. Current unba wrong. SuggestedRemedy Change from "(of a PSE is me To "Current unl are met with RI 17, and Table 1 Proposed Respons	with Rload_max a and Rload_min a and not just Tabl and Rpse_max is o Equation 145-1 alance requireme / Current unbalance twith Rload_ma ubalance requiren load_max and Rl 145–17." se Respo	and Rload_min as sp re specified in Equat e 145-17. s not met with Rload 5. Only Icon-2P_unb ents are plural and ye ce requirements (RPS x and Rload_min as nents (RPSE_min, R load_min as specified	ecified in Table f tion 145-16, Equ _max and Rload o need to be met et there is "is me SE_min, RPSE_ specified in Tabl PSE_max and I0	145–17." we have few uquation 145-17 and I_min. They need to with Rload_max and et with" which is max and ICon-2P-unb) le 145–17." Con-2P-unb) of a PSE	Darshan, Yair Comment Type TODO#151, #1 SuggestedRemedy It is KEN TODO Proposed Response PROPOSED AC OBE by 41 Cl 145A SC 14 Darshan, Yair Comment Type The title of subc darshan_01_03 SuggestedRemedy	30 We ne D. If not imp e 1 CCEPT IN 45A.4 ER clause 145 145A.4 PD	Comment Status D eed to verify by simulation plemented yet, keep in TC Response Status W PRINCIPLE. P 268 Mirosemi Comment Status D GA.4 was not implemented	DDO. <i>L</i> 16	# <u>84</u> Editori e
a PSE is met w issues: 1. Rload_max a Table 145–17 a 2. Rpese_min a conform only to Rload_min. 3. Current unba wrong. SuggestedRemedy Change from "(of a PSE is me To "Current unl are met with RI 17, and Table 1 Proposed Respons	with Rload_max a and Rload_min a and not just Tabl and Rpse_max is o Equation 145-1 alance requireme / Current unbalance twith Rload_ma ubalance requiren load_max and Rl 145–17." se Respo	and Rload_min as sp re specified in Equat e 145-17. s not met with Rload 5. Only Icon-2P_unb ents are plural and ye ce requirements (RPS x and Rload_min as nents (RPSE_min, R load_min as specified	ecified in Table f tion 145-16, Equ _max and Rload o need to be met et there is "is me SE_min, RPSE_ specified in Tabl PSE_max and I0	145–17." we have few uquation 145-17 and I_min. They need to with Rload_max and et with" which is max and ICon-2P-unb) Ie 145–17." Con-2P-unb) of a PSE	Darshan, Yair Comment Type TODO#151, #1 SuggestedRemedy It is KEN TODO Proposed Response PROPOSED AC OBE by 41 Cl 145A SC 14 Darshan, Yair Comment Type The title of subo darshan_01_03 SuggestedRemedy Change from "1	30 We ne D. If not imp e // CCEPT IN 45A.4 ER Clause 145 17Rev008 145A.4 PD balance"	Comment Status D eed to verify by simulation plemented yet, keep in TC Response Status W PRINCIPLE. P 268 Mirosemi Comment Status D 6A.4 was not implemented 3.	DDO. <i>L</i> 16	# <u>84</u> Editori e

Cl 145 SC 145 Darshan, Yair Comment Type T Com	P Mirosemi ment Status D	L	# 85	C/ 145 SC 14 Johnson, Peter	45.2.1	P 103	L 24	# 88
,	ment Status D			Johnson, Peter		O'' T I I		
Comment Type T Com				••••••		Sifos Technolog	gies	
			Random	Comment Type	Е	Comment Status D		Editoria
To make sure that clause 145 of compatability so Type 3 and 4 PDs to be supported by Type 1	PSEs to support Type			sense with a qu	ualifier.	nay then operate in a reduced	d power mode."	would make more
SuggestedRemedy				SuggestedRemedy				
If not ready to the meeting add	to TO DO list			power mode."	penaing i	pon the PSE capability, a PD	may need to c	perate in a reduced
Proposed Response Respo	onse Status W			Proposed Response	е	Response Status W		
PROPOSED REJECT.				PROPOSED AC	CCEPT I	N PRINCIPLE.		
There is no real issue or remed	ly suggested by this	comment. And c	ertainly no text that	OBE by 256				
the comment applies against.	As such, it is out of s	cope.	·	C/ 145 SC 14	45 2 7	P 151	L 51	# 89
C/ 145 SC 145.1.3	P 102	L 13	# 86	Johnson, Peter	10.2.1	Sifos Technolog	-	" 00
ohnson, Peter	Sifos Technol	ogies		Comment Type	Е	Comment Status D	5	PSE Clas
The sentence "The supported v					"PSEs t	nat will deliver 4-pair power to	a dual-signatu	
is defined in Table 145–1." is n same Rch.	ot really true any mo	e. Both types in	the table have the	SuggestedRemedy				
SuggestedRemedy						ill deliver 4-pair power to a du assification on each pairset."	al-signature PI) shall
Replace with "RCh is defined ir	n Table 145-1."			Proposed Response	e	Response Status W		
Proposed Response Response Response	onse Status W			PROPOSED AG				
C/ 145 SC 145.2.1	P 103	L 20	# 87					
Johnson, Peter	Sifos Technol	ogies						
Comment Type E Com. "A PSEs can" - typo	ment Status D		Editorial					
SuggestedRemedy "A PSE can"								
Proposed Response Response Response	onse Status W							
OBE by 101								

C/ 145	SC	145.2.7.1	P 152	L 53	# 90
Johnson, F	Peter		Sifos Technol	ogies	
Comment	Туре	т	Comment Status D		PSE Class
The se	entence	e, "PSEs th	at require more class events	for mutual ider	ntification, or to
discov	er the	PD request	ed Class, than the available	power allows m	nay issue a class reset
event	after pe	erforming m	nutual identification or classi	fication.", uses	an undefined phrase
"class	reset e	event" and a	also would be better placed	as the 2nd sent	ence after Table 145-13

"class reset event" and also would be better placed as the 2nd sentence after 1 able 143 because the sentence preceding it would then describe the core issue of not furnishing more events than the Class they support.

SuggestedRemedy

Move sentence to line 23 of page 153. Re-phrase as "PSEs that must issue more class events that the class they are capable of supporting in order to determine the PD class may (shall?) utilize the CLASS_RESET state to reset mutual identification at the PD."

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Move sentence to line 23 of page 153. Re-phrase as "PSEs that must issue more class events that the class they are capable of supporting in order to determine the PD class may utilize CLASS_RESET to reset mutual identification at the PD."

TFTD, not crazy about wording. The move is a good suggestion.

C/ 145	SC 14	5.2.7.1	P 1	54	L 20	#	91	
Johnson, P	eter		Sifos	Technologie	es			
Comment 7	Гуре Т	. Com	nment Status	D				4PID

The following sentence is a bit awkward and imprecise and could be improved. "A PSE connected to a dual-signature PD, implementing 4PID based on classification and enabled for only one class event, shall issue an initial three classification events to determine the Type of the connected PD, then transition to either the CLASS_RESET_PRI or CLASS_RESET_SEC."

SuggestedRemedy

Replace with: "A PSE restricted to Class 3 power on a pairset that uses multi-event classification to determine Dual Signature PD Type, shall transition to the CLASS_RESET state corresponding to that pairset if Dual Signature PD requires more than Class 3 power on that pairset." This should cover Type-2 through Type-4 PD cases in the state machine.

Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.

Replace with: "A PSE restricted to Class 3 power on a pairset that uses multi-event classification to determine Dual Signature PD Type, shall transition to the class reset state corresponding to that pairset if Dual Signature PD requires more than Class 3 power on that pairset."

TFTD, again not crazy about wording.

01.445	00 445 0 5		07	1.00	# 00
C/ 145	SC 145.2.5.7	<i>P</i> 1	37	L 28	# 92
Johnson, I	Peter	Sifos	Techno	logies	
Comment	Туре Е	Comment Status	D		PSE SD
Туро -	- State variable p	ose_avail_pwr_pri_pri	has ext	ra "_pri"	
Suggestee	dRemedy				
Remo	ve second "_pri"				
Proposed	Response	Response Status	W		
PROF	POSED ACCEPT	-			

C/ 145 SC 145.2.8.5.1 Johnson, Peter	P 163 Sifos Technologies	L 2	# 93	Cl 145 Johnson, F		45.2.8.5.1	P 163 Sifos Tech	L 46 nologies	# 95
Comment Type E Comment	-			Comment		т	Comment Status X	5	Unbalance
Table 145-17 no longer has Rload_* requirements".	* values but is titled "	Rload_max a	nd Rload_min	This pa	aragraph		with "ICon-2P-unb and E ot very clear and is gram		are specified for")
SuggestedRemedy				Suggested	IRemedy				
Re-title table to "Rload_max and Rlo	pad_min components	"					es for Icon_2p_unb and t		
Proposed Response Response PROPOSED ACCEPT IN PRINCIPL OBE by 265				ohms a than 0. evalua	and that .2 ohms ited using	the PD m or Rchan g Rload_r	5-15) are valid given that eets requirements of 145 is less than 0.1 ohm, PS nin and Rload_max both reduction in the ratio of	.3.8.10. In cases E compliance with reduced by 0.5 X	where Rchan-2P is less n Icon-2P-unb can be Rchan-2P. This
					on 145-1				
C/ 145 SC 145.2.8.5.1	P 163	L 34	# 94	Proposed I	Respons	е	Response Status W		
Johnson, Peter	Sifos Technologies	5		TFTD					
Comment Type E Comment In keeping with fact that Table 145-1 explain this on line 34.		ad_* values,	<i>Editorial</i> insert phrase to		ically, Oc		nt togothor		
SuggestedRemedy				rair ar	ia Pele,	please wo	ork together.		
Modify sentence to "Table 145–17 s Rload_min and Rload_max accordin	pecifies the values o	f resistance ι	used in computing	Also, s	see 198.				
Proposed Response Response				C/ 145	SC 1	4 5.2.8.6. 1	P 165	L 33	# 96
PROPOSED ACCEPT.				Johnson, F	Peter		Sifos Tech	nologies	
				Comment	Туре	т	Comment Status X		PSE Inrusi
				and Ta actual PD. <i>A</i> Item c)	able 145- values w Are these) says re	16. Con hile Table figures r	y in the three minimum ir ditions a) and b) specify e 145-16 is blank for mini eally applicable to linrush le 145-16 for minimum li e.	minimum linrush- mum Inrush-2P gi -2P or are they ap	2P" requirements with iven Single Signature oplicable to linrush?
				Suggested	IRemedy				
				Resolv	ve if 5mA e with "	and 60m above 30	A are really applicable to V, the minimum linrush cified in Table 145-16."		
				Proposed I	Respons	е	Response Status W		
				TFTD					
				Should above		ify the not	e in Table 145-16? May	be with the minim	um value only applies

	C/ 145 SC 145.3.8.6 P 198 L 39 # 99
ohnson, Peter Sifos Technologies	Johnson, Peter Sifos Technologies
omment Type T Comment Status D PSE Inrush	Comment Type E Comment Status D Editoria
The first paragraph of 145.2.8.6.1 describes a Type-4 PSE that is allowed to provide minimum linrush below what is specified in Table 145-16. It then stipulates "Such a PSE	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.
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 µF and a Class	SuggestedRemedy
2 load within TInrush-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	Change to "Table 145–29 defines two PSE output voltage transients and associated channel resistance conditions."
Tinrush-2P min requirement presumably only works for PD's that draw inrush starting with	Proposed Response Response Status W
the power-up.	PROPOSED ACCEPT IN PRINCIPLE.
JggestedRemedy	
I do no know how to resolve this since specifying that a PSE has the full Tinrush-2P min	Change to "Table 145–29 defines two PSE transient conditions."
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.	We are trying to remove "channel".
roposed Response Response Status W	TFTD, not crazy about text.
PROPOSED REJECT.	C/ 145 SC 145.1 P 99 L 17 # 100
	Jones, Chad Cisco
This requirement applies to all PSEs no matter when they start the inrush current. They have a maximum of 75ms to get the cap charged. Note that in Figure 145-23 Tinrush-2P	Comment Type ER Comment Status D Editoria
still starts from time 0.	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
145 SC 145.2.8.8 P 168 L 27 # 98	Type 1,2.
hnson, Peter Sifos Technologies	SuggestedRemedy
omment Type T Comment Status D PSE Power	change to: "This clause specifies Type 3 and Type 4 devices, including their interaction with Type 1 and Type 2 devices."
Lbis is purely a "tor the record" comment. The final two paragraphs in 145.2.8.8 are lat	
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"	Proposed Response Response Status W
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	Proposed Response Response Status W
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	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
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.	
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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. <i>IggestedRemedy</i> My solution would be to remove the final sentence and I also wonder if it has the same	PROPOSED ACCEPT IN PRINCIPLE. OBE by 254 <i>CI</i> 145 SC 145.2.1 <i>P</i> 103 <i>L</i> 20 # 101
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. uggestedRemedy	PROPOSED ACCEPT IN PRINCIPLE. OBE by 254 C/ 145 SC 145.2.1 P 103 L 20 # 101 Jones, Chad Cisco
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. <i>uggestedRemedy</i> 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.)	PROPOSED ACCEPT IN PRINCIPLE. OBE by 254 C/ 145 SC 145.2.1 P 103 L 20 # 101 Jones, Chad Cisco Comment Type ER Comment Status D Editoria
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. <i>IggestedRemedy</i> 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.)	PROPOSED ACCEPT IN PRINCIPLE. OBE by 254 C/ 145 SC 145.2.1 P 103 L 20 # 101 Jones, Chad Cisco
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. <i>uggestedRemedy</i> 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.) <i>roposed Response</i> Response Status W PROPOSED REJECT.	PROPOSED ACCEPT IN PRINCIPLE. OBE by 254 <i>CI</i> 145 SC 145.2.1 <i>P</i> 103 <i>L</i> 20 # 101 Jones, Chad Cisco <i>Comment Type</i> ER <i>Comment Status</i> D <i>Editoria</i> the sentence: "A PSEs can be categorized as either a Type 1, Type 2, Type 3 or Type 4
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. uggestedRemedy 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.) roposed Response Response Status W	PROPOSED ACCEPT IN PRINCIPLE. OBE by 254 <i>Cl</i> 145 <i>SC</i> 145.2.1 <i>P</i> 103 <i>L</i> 20 <i>#</i> <u>101</u> Jones, Chad Cisco <i>Comment Type</i> ER <i>Comment Status</i> D <i>Editoria</i> the sentence: "A PSEs can be categorized as either a Type 1, Type 2, Type 3 or Type 4 PSE." improper tense.
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. <i>uggestedRemedy</i> 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.) <i>roposed Response Response Status</i> W PROPOSED REJECT. This idea existed in the previous standard. Also, this is needed for foldback to protect the PSE power FET.	PROPOSED ACCEPT IN PRINCIPLE. OBE by 254 <i>Cl</i> 145 SC 145.2.1 <i>P</i> 103 <i>L</i> 20 # 101 Jones, Chad Cisco <i>Comment Type</i> ER <i>Comment Status</i> D <i>Editoria</i> the sentence: "A PSEs can be categorized as either a Type 1, Type 2, Type 3 or Type 4 PSE." improper tense. <i>SuggestedRemedy</i> change to: "A PSE can be categorized as either a Type 1, Type 2, Type 3 or Type 4 PSE."
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. <i>uggestedRemedy</i> 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.) <i>roposed Response</i> Response Status W PROPOSED REJECT. This idea existed in the previous standard. Also, this is needed for foldback to protect the	PROPOSED ACCEPT IN PRINCIPLE. OBE by 254 <i>Cl</i> 145 <i>SC</i> 145.2.1 <i>P</i> 103 <i>L</i> 20 <i>#</i> 101 Jones, Chad Cisco <i>Comment Type</i> ER <i>Comment Status</i> D <i>Editoria</i> the sentence: "A PSEs can be categorized as either a Type 1, Type 2, Type 3 or Type 4 PSE." improper tense. <i>SuggestedRemedy</i> change to: "A PSE can be categorized as either a Type 1, Type 2, Type 3 or Type 4 PSE." <i>Proposed Response Response Status</i> W
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. <i>IggestedRemedy</i> 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.) <i>oposed Response</i> <i>Response Status</i> W PROPOSED REJECT. This idea existed in the previous standard. Also, this is needed for foldback to protect the PSE power FET.	PROPOSED ACCEPT IN PRINCIPLE. OBE by 254 <i>Cl</i> 145 SC 145.2.1 <i>P</i> 103 <i>L</i> 20 # 101 Jones, Chad Cisco <i>Comment Type</i> ER <i>Comment Status</i> D <i>Editoria</i> the sentence: "A PSEs can be categorized as either a Type 1, Type 2, Type 3 or Type 4 PSE." improper tense. <i>SuggestedRemedy</i> change to: "A PSE can be categorized as either a Type 1, Type 2, Type 3 or Type 4 PSE."
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. aggestedRemedy 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.) apposed Response Response Status W PROPOSED REJECT. This idea existed in the previous standard. Also, this is needed for foldback to protect the PSE power FET.	PROPOSED ACCEPT IN PRINCIPLE. OBE by 254 Cl 145 SC 145.2.1 P 103 L 20 # 101 Jones, Chad Cisco Comment Type ER Comment Status D Editoria the sentence: "A PSEs can be categorized as either a Type 1, Type 2, Type 3 or Type 4 PSE." improper tense. SuggestedRemedy change to: "A PSE can be categorized as either a Type 1, Type 2, Type 3 or Type 4 PSE." Proposed Response Response Status W PROPOSED ACCEPT.

SORT ORDER: Comment ID

C/ 145	SC	145.3.4		P 186	L 18	#	102		C/ 145	SC	145.2.8.4	P	159
Jones, Cł	nad		Ci	SCO					Jones, Cha	ıd		Cisc	0
Comment	Туре	ER	Comment Sta	us D			E	Editorial	Comment	Гуре	Е	Comment Status	D
					letection signature	outside of T	able 14	45–20				4/20/17: Please rev	
	•		Is 'A' at the begin	ining								the document, espective the document, especial and espective the document, especial and espective the document, especting the document, especting the document, especting t	
Suggeste		•	sting power by p	·oconti	ng a detection sigr	aturo outeida	a of Ta	blo				or example, words s	
		n-complian		esentii	ig a detection sign		50114	DIC				be modified, if they For example, "to ens	
Proposed	Respo	nse	Response Stat	us W					safety"	or "to	prevent" m	night be changed to	"to reduce.".
PROF	POSED	ACCEPT.										ents will be the resu se comments with #	
C/ 145	SC	145.2.7		P 150	L 43	# [103		the tex	t: "sho	ould be limit	ted to rare circumst	ances such as
ones, Ch		145.2.7		SCO	L 45	<i>m</i>	105			•		to ensure system ro	DDUSTNESS
Comment		Е	Comment Stat				ļ	Editorial	Suggested		,	mited to rare circun	etancos such
					ms Autoclass (se	145.2.7.2 a	_	Lunonar	backup			inited to rare circuit	ISIGNCES SUCH
145.3	.6.2), th	e PSE ma	y set its minimur	n suppo	orted output power			ass," -	power	suppli	es to impro	ove system robustne	ess"
posse	essive.	Thought we	were trying to c	ear this	s up.				Proposed I	Respo	nse	Response Status	W
Suggeste	dReme	dy							PROP	OSED	ACCEPT.		
					forms Autoclass (soported output pow			class "	C/ 145	SC	145.2.8.5.	1 P'	162
Proposed	,		Response Stat				1 / 1010	01400,	Jones, Cha		1 101210101	Cisc	
•	•	ACCEPT.							Comment	Tvpe	Е	Comment Status	X
									#ABSC				
C/ 145		145.3.6		P 187	L 45	#	104					effective resistance	
Jones, Ch	nad		Ci	SCO								t along with any oth , the pairset with th	
Comment		Е	Comment Star					Editorial				defined in Table 14	
					ion is used by the connected to." D				Suggested	Reme	dy		
Suggeste	-			ney are	e connected to. D	anging prept	5511011.					pair-to-pair effective	
00			classification is	used b	y the PSE and the	PD to mutu	allv ide	ntifv				_min, along with any e PD, bounds the ci	
			o which they are				any lao	y	current	inclu	ding unbala	ance does not excee	
Proposed	Respo	nse	Response Stat	us W					-			conditions.	
PROF	POSED	ACCEPT.							Proposed I	Respo	nse	Response Status	W
									TFTD				

L 28 # 105 Editorial

for any explicit or implicit that are safety-related. Avoid situations or circumstances ure," "guarantee," "maximize," ate. Substitutions might include might be changed to "to improve

rch of the document for these

as those involving switchover of

ch as those involving switchover of

C/ 145	SC 145.2.8.5.1	P 162	L 15	# 106
Jones, Chad		Cisco		
Comment Ty	pe E	Comment Status X		Unbalance

determined by RPSE_max and he system, i.e., channel (cables and rrent including unbalance does not normal operating conditions.

unbalance determined by of the system, i.e., channel (cables hat the pairset with the highest unb as defined in Table 145–16

TFTD

See 50, 139

Jones, Chad Cisco	Jones, Chad Cisco
Comment Type E Comment Status D Unbalance	Comment Type E Comment Status D AES
#ABSOLUTE 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.	To ensure the total alien NEXT loss and alien FEXT loss coupled between link segments is limited, multiple disturber alien near-end crosstalk (MDANEXT) loss and multiple disturber alien FEXT (MDAFEXT) loss is specified.
SuggestedRemedy	SuggestedRemedy
change to: RPD_min and RPD_max, along with any other parts of the system, i.e., channel (cables and connectors) and the PSE, bounds the current such that the maximum pair current including unbalance does not exceed ICon-2P-unb as defined in Table 145–16	change to: To bound the total alien NEXT loss and alien FEXT loss coupled between link segments, multiple disturber alien near-end crosstalk (MDANEXT) loss and multiple disturber alien FEXT (MDAFEXT) loss is specified.
during normal operating conditions. See Annex 145A.	Proposed Response Response Status W PROPOSED ACCEPT.
Proposed Response Response Status W	PROPOSED ACCEPT.
PROPOSED ACCEPT.	Cl 145 SC 145.3.4 P 187 L 21 # 110
C/ 145 SC 145.4.9.1.7 P 215 L 41 # 108	Lukacs, Miklos Silicon Labs
Jones, Chad Cisco	Comment Type E Comment Status D Editoria
Comment Type E Comment Status D #ABSOLUTE To ensure the total alien NEXT loss and alien FEXT loss coupled between link segments is limited, multiple disturber alien near-end crosstalk (MDANEXT) loss and multiple disturber alien FEXT (MDAFEXT) loss is specified.	The Voffset and Vpd=2.7V markers are shifted to the left on figure 33-34. SuggestedRemedy Shift Voffset and Vpd=2.7V markers to the right, correct position Proposed Response Response Status W
SuggestedRemedy	PROPOSED ACCEPT.
change to: To bound the total alien NEXT loss and alien FEXT loss coupled between link segments, multiple disturber alien near-end crosstalk (MDANEXT) loss and multiple disturber alien FEXT (MDAFEXT) loss is specified.	C/ 145 SC 145.2.6 P 145 L 33 # 111 Lukacs, Miklos Silicon Labs <
Proposed Response Response Status W	Comment Type ER Comment Status D Editoria
PROPOSED ACCEPT.	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."
	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 classification on that pairset."
	Proposed Response Response Status W
	PROPOSED REJECT.
	Out of Scope.
	G/general Comment ID 111 Page 25 of 72

C/ 33 SC 33.4.9.1 P 67 L 5 # 112 Maguire, Valerie Siemon	C/ 33 SC 33.4.9.1 P 67 L 16 # 114 Maguire, Valerie Siemon
Comment Type T Comment Status D 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 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. <i>SuggestedRemedy</i> Replace all occurances of "connector or telecom outlet Midspan PSE" with "connector	Typo - "of" instead of "or" SuggestedRemedy Replace "work area of equipment" with "work area or equipment" Proposed Response Response Status W PROPOSED ACCEPT.
Midspan PSE". Replace all occurances of "Connector" or "telecom outlet" Midspan PSE' with "Connector"	C/ 33 SC 33.4.9.1 P 67 L 7 # 115 Maguire, Valerie Siemon
Midspan PSE.	Comment Type T Comment Status D AES
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	An explanation of Connector Midspan PSE and how it is implemented within a link segment is needed. Possible misuse of quotes, too. Apply change to clause 145.4.9.1 if allowed as part of this ballot cycle.
ALSO, Apply change to clause 145.4.9.1	SuggestedRemedy
C/ 33 SC 33.4.9.1 P 67 L 11 # 113 Maguire, Valerie Siemon	Replace, "The Midspan PSE equipment to be inserted as "connector" or "telecom outlet" shall meet the following transmission parameters."
Comment TypeEComment StatusDAESIt is confusing that the work area or equipment cord variants are listed under the clause titled, "Connector" or "telecom outlet" Midspan PSE device transmission requirements". Apply change to clause 145.4.9.1 if allowed as part of this ballot cycle.AESSuggestedRemedySuggestedRemedySuggestedRemedySuggestedRemedy	 with, "A connector Midspan PSE replaces one of the connectors in the link segment and shall meet the following transmission parameters." Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. ALSO, Apply change to clause 145.4.9.1
Option 1: List only the 5 connector variants in clause 33.4.9.1 and move the 5 equipment variants to clause 33.4.9.1.4	Cl 33 SC 33.4.9.1 P 67 L 14 # 116
Option 2: Move lines 11 - 23 (The sentence starting with, "There are 10 variants" and the list of the 10 variants) to clause 33.4.9.	Maguire, Valerie Siemon Comment Type E Comment Status D
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	An assembly of cable with a plug on one or both ends is usually referred to as a "cord". It is not necessary to specifically call the assembly an "equipment cord" or "work area cord". Apply change to clause 145.4.9.1 if allowed as part of this ballot cycle.
List only the 5 connector variants in clause 33.4.9.1 and move the 5 equipment variants to clause 33.4.9.1.4	SuggestedRemedy Replace all occurances of "work area or equipment cable Midspan PSE" with "cord Midspan PSE".
Also, Apply change to clause 145.4.9.1.	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
	ALSO, Apply change to clause 145.4.9.1

Comment ID 116

Page 26 of 72 4/28/2017 2:16:03 PM

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/ 33	SC 33	.4.9.1	P 67	L 5	# 117
Maguire, V	Valerie		Siemon		
Comment	Туре	E	Comment Status D		AES
actua	I naming c	onvention	ound the words "connec of the component as us as part of this ballot cy	ed in the docume	
Suggeste	dRemedy				
Delete	e quotes a	round "Cor	nnector" and "telecom o	utlet".	
(Hope	efullv. telec	om outlet	has been removed as a	result of an earlie	er Maguire comment).
Proposed	Response	e F	Response Status W PRINCIPLE.		, , , , , , , , , , , , , , , , , , ,
ALSC), Apply ch	ange to cla	ause 145.4.9.1		
Cl 33	SC 33	.4.9.1.4	P 68	L 45	# 118
Maguire, V	Valerie		Siemon		
Comment	Туре І	E	Comment Status D		AES
			should be the same leve		
			e transmission requiren the information about t		
			clause 145.4.9.1.4 if allo		
Suggeste	dRemedy				
Repla	ice, "33.4.9	9.1.4 Work	area or equipment cabl	e Midspan PSE"	
	"33.4.9.2 V ements"	Vork area	or equipment cable Mids	span PSE device	transmission
Re-nu	umber tran	smission p	arameter subclauses ad	ccordingly.	
Proposed	Response	e F	Response Status W		
			-		

PROPOSED ACCEPT IN PRINCIPLE.

ALSO, Apply change to clause 145.4.9.1.4

CI 33	SC 33.4.9.1.4	P 68	L 47	# 119
Maguire, Val	lerie	Siemon	1	
Comment Ty	/pe T	Comment Status	C	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 "jumper" 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.

SuggestedRemedy

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."

Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.

ALSO, Apply change to clause 145.4.9.4

Cl 33 SC 33.4.9.1.4 P 69	L 4	# 120	C/ 145 S	C 145.4.1	P 204	L 16	# 122
Maguire, Valerie Siemon			Peker, Arkadiy		Mirosemi		
Comment Type T Comment Status D		AES	Comment Type	E	Comment Status X		Pres: Peker
In Table 33-20a, the reference Midspan PSE assemble Apply change to Table 145-15 if allowed as part of this SuggestedRemedy Replace, "Table 33–20a—Cable specifications for use	s ballot cycle.		60950-1 ar (which will	nd IEC 6236 be withdraw e or system	external conductors are speci 8-1.", the 802.3bt requires to a m by the end of 2018) and IE a need to satisfy just one of this	neet both stand C 62368-1. From	lards IEC60950-1 m a safety point of
with, "Table 33–20a—Cord specifications for use with	Midspan PSE	Es"	SuggestedRen	nedy adiy_01_051	7 odf		
Replace, "Cabling specification"			Proposed Resp		Response Status W		
with, "Cord specification"			WFP				
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.			TFTD				
ALSO, Apply change to Table 145-15			C/ 145 S Peker, Arkadiy	C 145.4.1	P 204 Mirosemi	L 18	# 123
C/ 145 SC 145.4.1 P 204	L 16	# 121	Comment Type	e T	Comment Status X		Pres: Peke
Peker, Arkadiy Mirosemi Comment Type E Comment Status X In the text "Accessible external conductors are specifi 60950-1 and IEC 62368-1.", standard specifies IEC 62 not specify similar IEC62368-1 subclause. For consistency, we should add subclause of IEC6236 SuggestedRemedy Adopt Arkadiy_01_0517.pdf Proposed Response Response Status W WFP WFP	0950-1 subc	,	strength te electrical i Customers electrical is IEEE802.3 protective o "NOTE 4 C as discharg should be The require IEEE spec IEC60950	sts:", there solation. may argue solation requiremer components components ge resistor fi disconnecte ements whi s or at leas or IEC62366	ch allow to remove componer at IEEE802.3bt should have c	E 802.3bt request that a product the set of the se	uirements for ct meet UL/IEC tomers believes that not allow to remove s follows: ation to be tested, such surge suppressors, should be added to
TFTD			SuggestedRen Adopt Arka	<i>nedy</i> adiy_01_051	7 pdf		
			Proposed Resp WFP	-	Response Status W		

C/ 145	SC 145.4.1	P 204	L 27	# 124	C/ 145	SC	145.4.1		P 204	L 27	# 125
Peker, Ark	adiy	Mirosemi			Peker, Ark	adiy			Mirosemi		
Comment	Туре Т	Comment Status X		Pres: Peker1	Comment	Туре	Е	Comment S	tatus X		Pres: Peke
be no 1, duri V dc". Howey Requir "There to have	insulation breaking the test. The This compliant ver a) and b) correments a) and e shall not be in e occurred whe	owing compliance criteria for the kdown, as defined in subclause e resistance after the test shall ce criteria aplies for a) and lompliance requirements are d l b) compliance criteria per parsulation breakdown during test n the current that flows as a result of the current the cu	e 5.2.2 of IEC 6 be at least 2 M b) and c) electri ifferent than for ragraph 5.2.2 IE st. Insulation bre esult of the appli	0950-1 and IEC 62368- ohm, measured at 500 ical test procedures. c) impulse test. EC60950: eakdown is considered ication of the test	60950 M ohn specif of IEC There "IEC6)-1 and n, meas y simila C62368 fore in 0950-1	IEC 62368- sured at 500 ar IEC62368 3-1. IEEE 802.3 or IEC623	8-1, during the 10 V dc." speci 8-1 subclause 8bt text can b	test. The resist fies IEC 6095 . For consiste e change fron	stance after the t 0-1 subclause 5 ncy , we should n "IEC60950-1 a	bclause 5.2.2 of IEC test shall be at least 2 5.2.2 but does not add subclause 5.4.9.2 nd IEC62368-1: to
0	e rapidly increative of current".	ses in an uncontrolled manner	, that is the insu	lation does not restrict	Suggested						
_			- <i>i</i>		Adopt	arkadi	y_01_0517.	.pdf.			
		per paragraph 6.2.23 IEC6095 amage to insulation is verified i		avs, as follows:	Proposed	Respo	nse	Response S	tatus W		
– durir	ng the application	on of the impulses, by observa	tion of oscillogra	ams. Surge suppressor	WFP						
– after	r application of a	wn through insulation is judged all the impulses, by an insulati	on resistance te	st. Disconnection of	TFTD						
		permitted while insulation resi or, if surge suppressors are left			C/ 145	SC	145.2.8.3		P 159	L 24	# 126
10 % I	less than the su	irge suppressor operating or s			Picard, Je	an			Texas Instrun	nents	
resista	ance shall not b	e less than 2 MΩ."			Comment	Туре	TR	Comment S	tatus D		Transiei
measu b). The be spe	ured at 500 V do erefore complia ecify correctly fo	irements that" The resistance 5" referring just to impulse test nce critea should be removed or case a) and b) and separate 0950 or IEC62368.	c) and not to I at all from IEEI	steady stay tests a) and E802.3bt or it need to	voltag 0.1uF	e, all it cap).	can do is te	emporarily turr	n off its port (it	's only a low side	nnot really short the PI e switch after all, with a fined in Table 145–28,
Suggested					allows	a PD t	to operate fo	for input voltag	e transients w		to drop as low as 0 V
00	Arkadiy_01_05	17.pdf			Suggested	•	•	as specified in	140.3.0.0.		
Proposed	Response	Response Status W			00			he "at" standa	rd removing "	which cause VP	D to drop as low as 0
WFP					V".		becomes th		,		
TFTD					"The r	minimui a PD t	m PD input	capacitance (fined in Table 145–28, 30 µs as specified in
					Proposed PROF	•	nse ACCEPT.	Response S	tatus W		

Cl 145 SC 145.3.8.6	<i>P</i> 198	L 24	# [127	C/ 14		14.4.416	P 24	L 50	# 129
Picard, Jean	Texas Instrume	nts		Schindler,				nply, Cisco, T	
Comment Type TR	Comment Status D		PD Power	Comment		TR	Comment Status D		
"A PD shall continue to op PSE PI as defined in 145.	perate without interruption in 2.8.3."	the presence c	f transients at the	page					ed and Yair, located on 915 that was updated
the PSE cannot really sho only a low side switch after Also, if the voltage at the	ake sense, since it refers to ort the PI voltage, all it can de er all, with a 0.1uF cap). PI goes down to 0V or not at rrent, type of input bridge, et	o is temporarily t PSE PI is pure	turn off its port (it's	deterr currer VPSE capac	mining w nt below . There sitance to	hether PSE ILIM-2P. T fore, the PS o its operation	he PD is a passive pa SE needs to provide IL ng value. A class-4 P	capacitance to a lev articipant when the P LIM for a TLIM that cl	el that keeps the PSE SE drops and raises its
SuggestedRemedy				802.3	-2015 re	quirements			
Replace with: "A PD shall continue to op for up to 30 μs"	perate without interruption whether the second s	hile there is los	s of power at PSE PI	correc	ctly. The		two PD tests in 145.3 solution clarifies PSE ype.		
Proposed Response PROPOSED ACCEPT.	Response Status W				people		to a preview of this co		IEEE PSE Type definitions in 1.4.41x)
Cl 1 SC 1.4.236a Schindler, Fred	P 24 Seen Simply, Ci	L 24 isco, T	# 128	as, "th suppo	nis PSE orting cla	is capable (ss-x". If a	of supporting class-x" v PSE assigns class-4 tl	while I interpreted th hen the PSE is only	e text as "this PSE is supporting the assigned
Comment Type ER	Comment Status D		Definitions						vel fits the definition of ed depends on the time
The existing text, "A system consisting of or pair cabling."	ne PSE and one PD that pro		ross balanced twisted-	when - curre	the defir ently sup	nition is tes ports (whe		which is my view;	
	====Midspan-PSE====PD			a clas	s-4 PD,	which supp	orts interoperation. A	Type-4 PSE has a	2P of at least 0.684A to TLIM-2P of 6 ms. the class-4 PD with the
	nd 145 provide requirements oves uncertainty about which			maxin	num cap	acitance th	at it takes less than 6 M-2P current demand.	ms to reach a PD op	
SuggestedRemedy				Note	that Type	e-4 PSEs n	eed to support ILIM-2	P on both pairsets to	support interoperation
Replace the referenced se		ower and and	PD which may				s already a requirement		
	ne PSE, which may source p alanced twisted-pair cabling			Suggeste	dRemed	y			
•	Response Status W		,				SE definitions starting f supporting …".	on page 24, replace	e " that supports"
PROPOSED REJECT.				Proposed			Response Status W	,	
Your suggested remedy d	loes not add clarity to the de	finition If you	emove the	•	•	SE REJECT.	nesponse status W	T	
explanations in the comm	as, this is what you get: ne PSE and one PD across I			I reall	y wish ye	ou had type	d out the new suggest n for Type 3 PSE goes		e things are important).

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 129

Page 30 of 72 4/28/2017 2:16:03 PM

Type 3 PSE: A PSE that supports up to Class 6 power levels, supports short MPS, and may support 4-pair power. (See IEEE 802.3, Clause 145).

To:

Type 3 PSE: A PSE that is capable of supporting up to Class 6 power levels, supports short MPS, and may support 4-pair power. (See IEEE 802.3, Clause 145).

This makes it seem like all Type 3 PSEs have to be able to support Class 6. This is not true.

CI 79	SC 79.3.2	P 75	L 47	# 130
Schindler	, Fred	Seen Simply,	Cisco, T	
Commen	t Type TR	Comment Status D		LLDP

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.

Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.

OBE by 293

CI 79	SC 79.3.2.	5 P 7 9	L 16	# 131
Schindler,	Fred	Seen Sim	ply, Cisco, T	
Comment	Type ER	Comment Status D		LLDP

The text.

"The PD requested power value field shall contain the PD's requested power value defined in Table 79–5, for Type 1, Type 2, and single-signature Type 3 and Type 4 PDs. The fields for PD requested power value shall be set to the sum of PD requested power value Mode A and PD requested power value Mode B in Table 79–6a, for Type 3 and Type 4 dualsignature PDs."

Incorrectly reference the field of Table 79-5, which is PD requested power value. The fix removes PD's and replaces it with PD.

SuggestedRemedy

Replace the called out text with,

"The PD requested power value field shall contain the PD requested power value defined in Table 79–5, for Type 1, Type 2, and single-signature Type 3 and Type 4 PDs. The fields for PD requested power value shall be set to the sum of PD requested power value Mode A and PD requested power value Mode B in Table 79–6a, for Type 3 and Type 4 dual-signature PDs."

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Merge with comment 294.

CI 79	SC 79.3.2.6	P 79	L 46	# 132
Schindler,	Fred	Seen Simply	, Cisco, T	
	ext, PSE allocated po d in Table 79–6	Comment Status D ower value field shall contain for PSEs connected to single		
Incorr Suggestee	,	he field of Table 7-6, which s	hould be PSE allo	cated power value.
"The I		t text with, ower value field shall contain s connected to single-signati		
•	Response POSED ACCEPT	Response Status W		
OBE I	by 296			

CI 79	SC 79.3.2.6	P 79	L 49	# 133	C/ 79	SC 79.3.2.6c	P 81	L 42	# 134
Schindler, F	red	Seen Simply,	Cisco, T		Schindler	, Fred	Seen Simp	oly, Cisco, T	
Comment T	ype ER	Comment Status D		LLDP	Commen	t Type ER	Comment Status D		LLDP

The text.

"The sum of the PSE allocated power value Alternative A field and the PSE allocated power 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. 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 a dual-signature PD for Type 1 and Type 2 PSEs."

should include a reference to the defining table, and the sentence can be reordered to improve clarity.

SugaestedRemedv

Replace the called-out text with.

"The sum of the PSE allocated power value Alternative A field and the PSE allocated power value Alternative B field shall be provided in the PSE allocated power value field defined in Table 79-6 for Type 3 and Type 4 PSEs connected to a dual-signature PD. 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 defined in Table 79-6 for Type 1 and Type 2 PSEs connected to a dual-signature PD."

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

OBE by 296

Cl 79	SC	79.3.2.6c	P 8	1 L4	12	# 134	
Schindler,	Fred		Seen	Simply, Cisco, 1	-		
Comment	Туре	ER	Comment Status	D			LLDP
The e	xistina t	ext.					

"When the power typex is PD this field shall be set to the requested Class of the dualsignature PD for Mode A during Physical Layer Classification as defined in 145.3.6. When the power typex is PSE and the PSE is connected to a dual-signature PD, this field shall be set to the PSEs assigned Class for Alternative A as defined in 145.2.7."

May lead to miss interpretation because it assumes the reader will infer "this field" is the field being covered by the section header and not the field just called out. The solution replaces "this field" with "the Dual-signature power Classx Mode A field".

This same issue exists for 79.3.2.6c.3 p81 L49 and on 79.3.2.6c.4 p81 L53.

SuggestedRemedy

Replace the first called-out text with,

"When the power typex is PD the Dual-signature power Classx Mode A field shall be set to the requested Class of the dual-signature PD for Mode A during Physical Laver Classification as defined in 145.3.6. When the power typex is PSE and the PSE is connected to a dual-signature PD, the Dual-signature power Classx Mode A field shall be set to the PSEs assigned Class for Alternative A as defined in 145.2.7."

For 79.3.2.6c.4 p81 L49, replace the similar text with,

"When the power typex is PD the Dual-signature power Classx Mode B field shall be set to the requested Class of the dual-signature PD for Mode B during Physical Laver Classification as defined in 145.3.6. When the power typex is PSE and the PSE is connected to a dual-signature PD, the Dual-signature power Classx Mode B field shall be set to the PSEs assigned Class for Alternative B as defined in 145.2.7."

For 79.3.2.6c.4 p81 L53, replace the similar text with.

"When the power typex is for a single-signature PD or Type 1 and Type 2 PD the Power Classx field shall be set to the requested Class of the PD during Physical Layer Classification as defined in 145.3.6. When the power type is PSE Power Classx field shall be set to the PSEs assigned Class as defined in 145.2.7. PSEs connected to a dualsignature PD and dual-signature PDs set Power Classx field to the power class indicated by the total power indicated by Power Classx Mode A and Power Classx Mode B.

Proposed Response Response Status W PROPOSED ACCEPT.

C/ 79 S	SC 79.3.2.6c	P 82	L 15	# 135	C/ 145	SC 145.2.5.6	P 125	L 42	# 137
Schindler, Free		Seen Simply			Schindler,		-	nply, Cisco, T	
Comment Type Changes r requireme #406 com values. C text require Page 81, L "PSEs cor Requireme signature o class deta	e TR made during I nts because ment respons Class 0 may b ements on pa Lines 42 and nnected to a T ents for the T details so dup ils for the sys	Comment Status X D2.3 to address comment # Table 79-6c codes changed e. Comment #406 incorred e reported by legacy Types age 81 lines 42 and 49, for t 49 both indicate, Type 1, Type 2 or single-sig LV covered by Table 79-6d blicating this in Table 79-6c tem. The TLV processing covered by Table 79-6c, is	406 change LLD I. Draft 2.4 does ttly raises concer . The changes m he Dual-signature nature PD set this result in system is redundant. Ta code may also in	not appear to follow the ns about Class 0 hade conflict with what -PD TLVs. s field to value 0." single and dual ble 79-6c provides	Comment Fix typ Suggested Use "d Proposed	<i>Type</i> ER oo "classtiming"	Comment Status D Response Status W		Editor
replace "1 On page 8 replace "1 Proposed Res TFTD	32, L32 11 = Dual-sig ponse SC 145.2.5.1 .	ignature PD" with "111 = Re nature PD" with "111 = Res <i>Response Status</i> W 1 P112	erved/lgnore" L 51	# 136					
Schindler, Free		Seen Simply	, CISCO, T						
is handled	ng text, g of MPS is h l by Figure 14	Comment Status D andled by Figure 145–17 a 5–19." " and should be improved.	nd Figure 145–18	PSE SD					
SuggestedRer									
Replace th "The state	ne called-out	igure 145–17 and Figure 14	15–18 monitors N	IPS. The state diagram					
Proposed Res	ponse	Response Status W							
PROPOSE	ED ACCEPT	IN PRINCIPLE.							
OBE by 30	04								

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

Fditorial

C/ 145	SC 145.2.7.1	P 152	L 44	# 138

Schindler, Fred

Seen Simply, Cisco, 1

Comment Type ER Comment Status D

The construct of using a bulleted "— shall" for setting requirements is only used in clause 145 (IEEE 802.3-2015 was scanned to confirm this). The approach taken in clause 145 is also not used consistently. For example, on page 152, line 43,

"Type 3 PSEs

— shall provide a maximum of four class events and four mark events for single-signature PDs.

— shall provide a maximum of three class events and three mark events on each pairset for dual-signature PDs."

Where does the sentence start? I see a period after "PDs." but the next bullet is not capitalized.

The construct changes within the Clause. For example, on page 205, line 30, "The PSE PI shall withstand without damage the application of short circuits of any conductor to any other conductor within the cable for an indefinite period of time. The magnitude of the current through such a short circuit:

- shall not exceed IPSEUT-Type3-2P, as defined in Equation (145–19), for Type 3 PSEs

- shall not exceed IPSEUT-Type4-2P, as defined in Equation (145-20), for Type 4 PSEs"

Note that this list starts using a colon, and does not have a period. Style guides (Diana Hacker) indicate, "A colon must be preceded by a full independent clause."

The IEEE style guide for 2014, indicates the following when using a list,

"... Closing punctuation should be omitted or phrases. Punctuation should be used for sentences. Lists shall be preceded by an introductory sentence explaining the relevance of the list. ..." This guide also includes the following example,

"The following is an example of a properly formatted dashed list:

-- Begin with a capital letter.

-- Include final punctuation for all items in the list if one items in the list is a complete sentence.

-- If at least one of the items in the dashed list is a complete sentence then add ending punctuation to all of the items in the list."

p152 L44 4x shall p170 L19 11x shall, and bulleted mays p 171 L1 2x shall, 1x may p 205 L34 2x shall

SuggestedRemedy

This was briefly discussed with our esteemed Editor to help craft a solution. The Task Force should also get the advice of senior IEEE contributors to craft a final solution for D3.x. A TODO should be assigned for the changes required and this comment shall remain open, to help stimulate the improvements, until the IEEE 802.3 main Editor has

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 138

provide direction and it has been implemented.

The preferred choice is to restore text and move away from bullets.

Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.

Editor to consult experts and style guide and format lists appropriately.

IEEE DOO2 2ht D2 4.4 Dair DaE 4th Working Croup regiraulation hallot commenter

C/ 145 SC	145.2.8.5.1	P 162	L 15	# 139	C/ 145	SC	145.3.2		P 172	L 28	# 140
Schindler, Fred		Seen Simply,	, Cisco, T		Schindler,	Fred			Seen Simply,	Cisco, T	
Comment Type	ER Com	ment Status X		Unbalance	Comment	Туре	TR	Comment	Status X		PD
remove the v	word ensures (p162	e "ensures", which wi 2 L15 and p201 L29) bied to get the text th). A solution is pr	oposed so that the					from 0 V to 57 ermanent dama		le A, Mode B, and both
made in D2.3 The existing "The PSE PI RPSE_min e	3 #202 but was not text, p162 L15 I pair-to-pair effection ensures that along	t fixed in the adopted ve resistance unbala with any other parts	d darshan_01_03 ance determined of the system, i.e	17Rev008.pdf. by RPSE_max and e. channel (cables and	voltag path a polarit	e for Ty Ind the	ype 3 and positive positive positive positive potential and the second states and the se	4 PSEs norm olarity is unsv	nally has the neg witched. Theref	pative polarity on ore, PDs will be	PSEs. The VPSE the hot-swap switch exposed to the positive e when one Mode has
		airset with the highes d in Table 145–16 dι		g unbalance does not	Suggested	dReme	dy				
exceed ICOII	I-2F-ulib as defined		uning normal oper	aling conditions.	Replac	ce the o	called-out	text with,			
"RPD_min, F (cables and not exceed I	connectors) and th Con-2P-unb as def	e PSE, the maximur	m pair current inc	system, i.e., channel luding unbalance does operating conditions.	simulta indefir	aneous nitely wi	sly, and Mo ithout perr		ode-B positive p		de A, Mode B, both lode negative pair,
See Annex 1					Proposed	Respo	nse	Response	Status W		
SuggestedReme	•				TFTD						
	called out text p16 pair-to-pair effect	2 with, ive resistance unbal	ance determined	by RPSE max and	C/ 145	SC	145.3.3		P 173	L 3	# 141
RPSE_min,	in conjunction with	other parts of the sy _min and Rch_unb_	/stem, i.e., chann	el (cables and	Schindler,	Fred			Seen Simply,	Cisco, T	
and a PD that	at meets 145.3.8.1	0 requirements, limit	the current on th	ne pairset with the	Comment	Туре	ER	Comment	Status D		PD S
145–16 durir	ng normal operating	g conditions."	exceed ICon-2P-ı	unb as defined in Table				with the suff	ix "_mode(X)" m	ay have differen	t values for Mode A
"The PD PI RPD_max in	conjunction with o	re resistance unbalar ther parts of the sys _min and Rch_unb_	tem, i.e., channe	l (cables and					ncern that this is a. This is cleare		that does not need to
		5.1 requirements, lin			Suggested	dReme	dy				
		ance, and does not e g conditions. See An		unb as defined in Table	Optior Strike		lled-out se	ntence.			
Proposed Respo TFTD	onse Respo	onse Status W			"A par	ce the or ameter	that ends	sentence with	ix "_mode(X)" m	ay have differen	t values for Mode A
See 106, 50								e state diagra	ams."		
					Proposed	•		,	Status W		
					PROP	POSED	ACCEPT	IN PRINCIPI	.E.		
					"A par	ameter	that ends	sentence with with the suff	ix "_mode(X)" m	ay have differen	t values for Mode A

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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-	145.3.8	P 194	L 26	# 142	C/ 145	SC 145.3.8	3.7	P 200	L 13	# 143
Schindler, Fred		Seen Simply,	Cisco, T		Schindler,	Fred		Seen Simply	, Cisco, T	
Comment Type	TR	Comment Status D		PD Power	Comment	Type TR	Comn	nent Status D		PD Power
systems shoul 28.3 W, while o provides at lea	Id provide on line 20 ast 42 W,	ing conditions Single-signature the same power levels. On I 6 a class-4 DS provides at lea while on line 27 a class-5 DS peak power). The math works	ine 12, a class ast 28.4 W. Or provides at lea	4 SS provides at least le line 13, a class-5 SS ast 37.2 W (this is the	"NOTE allowed appear	—The worst- d by Table 144 r at the PI than	case condition 5–16 and Ta an the standa	ble 145–28, which lone case as speci	E and PD genera may cause a hig fied by this claus	e."
SuggestedRemedy	У					a is also subo		on that the reader s	snould "pay spec	ial attention too". The
Replace the Ta	able item	11 for Class 4, which is "28.4	4" with "28.3".		Suggested	0	punnan			
Replace the T	able item	11 for Class 5, which is "37.2	2" with "42"		••	e the note to r	normative te	xt.		
	ACCEPT	Response Status W IN PRINCIPLE.			noise a	allowed by Tal	ole 145–16 a		which may cause	generate the maximum e a higher noise level to e."
power drawn (i	not supp	emedy is wrong (and this is fo lied)), there are some things t for DS is correct (it is half of	hat need to be	fixed. However, the	Proposed I PROP	Response OSED REJEC	,	nse Status W		
		4" for classes 1 to 4 in items 8.3" for item 11, class 4.	10 and 11.					de to make it stand nall), it is only an int		r as a warning. This is g.
z. Ghange zo	0.4 10 2	0.5 101 item 11, class 4.			Cl 145 Schindler,	SC 145.3.8 Fred	3.10	P 201 Seen Simply	<i>L</i> 8 , Cisco, T	# 144
					Comment ⁻ Modifie		Comm	nent Status X		Pres: Darshan4
					duty cy		not exceed	IPeak-2P-unb, as o		TCUT-2P min and 5 % 145–16 on any pair
					Incorre	ectly reference	the source	of IPeak-2P-unb, w	hich is not in the	reference table.
					Suggested	Remedy				
					Replac	ce the called o	ut text with,			
					duty cy	e-signature PD /cle, and shall PD PI pairs of	not exceed	IPeak-2P-unb, as o	b for longer than defined in Equati	TCUT-2P min and 5 % on (145-12) on any pair

Proposed Response Response Status W

WFP

TFTD

CI 145 SC 145.5.3.2 P 218 L 41 # 145 Schindler, Fred Seen Simply, Cisco, T Image: Comment Type TR Comment Status X DLL Comment Type TR Comment Status X DLL Three attributes are listed in green font that should be located in clause 30 of our amended document. School of our amended the status X School of our amended the status X	An ENUMBERATED VALUE that has one of the following entries: pReadyPSE PSE pReadyPD PD BEHAVIOUR DEFINED AS: A read-only implementation-specific value used to indicate whether the Data Link Layer classification has been initialized by the by the local system for Alternative B for a PSE, or for Mode B for a PD.;
page 218	Proposed Response Response Status W
aLldpXdot3LocReady	TFTD, needs review.
page 227 aLldpXdot3LocReadyA aLldpXdot3LocReadyB	C/ 145 SC 145.5.3.2 P 219 L 1 # 146 Schindler, Fred Seen Simply, Cisco, T Seen Simply, Cisco, T Environmentation Envitesting Environmentation
A solution is provide below and should be reviewed by participants to improve the text before submission.	Comment TypeERComment StatusDEditorialTable 145-39 is split over two pages and this needs to be made clear on the second page.
SuggestedRemedy	SuggestedRemedy
Related cross references to these variables also need to be fixed.	Modify the second table heading to add "(continued)" at the end of the title.
Add the following text in the appropriate place in Clause 30.	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
30.xxx aLldpXdot3LocReady ATTRIBUTE	Editor to fix by either not splitting table or by suggested remedy.
APPROPRIATE SYNTAX: An ENUMBERATED VALUE that has one of the following entries: pReadyPSE PSE	C/ 145 SC 145.5.4 P 236 L 28 # 147 Schindler, Fred Seen Simply, Cisco, T Seen S
PReadyPD PD BEHAVIOUR DEFINED AS:	Comment Type ER Comment Status D Editorial
A read-only implementation-specific value used to indicate whether the Data Link Layer classification has been initialized by the by the local system.;	Legacy text and new text use the sentence, "The state diagrams describe the behavior above.", which is overly broad and can be made more specific by point to the appropriate state diagrams.
	SuggestedRemedy
30.xxx aLldpXdot3LocReadyA ATTRIBUTE APPROPRIATE SYNTAX:	For the referenced text on page 235, Line 28, replace with, "The state diagrams in Figures 145-41 and Figure 145-43 describe the behavior above."
An ENUMBERATED VALUE that has one of the following entries: pReadyPSE PSE pReadyPD PD	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."
BEHAVIOUR DEFINED AS:	Proposed Response Response Status W
A read-only implementation-specific value used to indicate whether the Data Link Layer classification has been initialized by the by the local system for Alternative A for a PSE, or for Mode A for a PD.;	PROPOSED ACCEPT.
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

Comment ID 147

CI 79	SC 79.3.2.6	P 79	L 50	# 148	CI 79		79.3.2.6b	P 81	L 21	# 150
Stewart, He	ath	Analog Device	es		Stewar	t, Heath		Analog Devic	es	
Comment T	ype TR	Comment Status D		L	LDP Comm	ent Type	ER	Comment Status D		LLDF
The sur value A	n of the PSE all Iternative B field	s. Implies requirement is on ocated power value Alternati shall be provided in the PSE and Type 4 PSEs.	ve A field and th	e PSE allocated pov	ver Ál al- pla		ding power e "PSE allo	to a Type 1, Type 2, and si cated power value Alternati		
SuggestedF	Remedy				Sugge	stedReme	edy			
Change					Ch	ange plac	ce to places			
for a du To	al-signature PD	for Type 3 and Type 4 PSEs	3		Propos	ed Respo	onse	Response Status W		
	e 3 and Type 4 F	SEs connected to dual-sign	ature PDs		PF	OPOSED	ACCEPT	IN PRINCIPLE.		
Proposed R PROPC OBE by	, SED ACCEPT	Response Status W IN PRINCIPLE.			A pla		ding power he "PSE all	to a Type 1, Type 2, or sing ocated power value Alterna		
CI 79	SC 79.3.2.6	P 79	L 51	# 149	C/ 79		79.3.2.6b	P 81	L 24	# 151
Stewart, He	ath	Analog Device	es		Stewar	t, Heath		Analog Devic	ces	
Comment T		Comment Status D			LDP Comm	ent Type	ER	Comment Status D		LLDF
This ap	pears to create	a requirement on existing Ty	pe 1 and Type 2	PSEs.				revious shall covers this alr		
SuggestedF Delete	-				pla Alt		e "PSE allo	to a Type 1, Type 2, and si cated power value Alternati		
		ocated power value Alternation may be provided in the PSE			C	stedReme	edy			
		and Type 2 PSEs.				lete				
Proposed R PROPC	esponse SED ACCEPT	Response Status W				ernative E		ated power value Alternativ 9–6b shall be set to value 0		
	296				Propos	ed Respo	nse	Response Status W		

Cl 145 SC 145.2.1 P 103 L 24 # 152 Stewart, Heath Analog Devices 152	C/ 145 SC 145.3.1 P 171 L 25 # 154 Stewart, Heath Analog Devices 4 145
Comment Type ER Comment Status D Editorial	Comment Type ER Comment Status X PD Type
The referenced sentences use of "then" does not make sense.	The notion of construction is odd. We have already created the idea of configuration in the
SuggestedRemedy	PSE section and can reuse it here.
Replace	SuggestedRemedy
Type 1, Type 2, Type 3, and Type 4 PSEs interoperate with Type 1, Type 2, Type 3, and Type 4 PDs, subject to power limitations. See 145.2.7. The PD may then operate in a reduced power mode.	Change PDs can be constructed as single-signature or dual-signature To
With	PDs can be of either single-signature construction or dual-signature construction
Type 1, Type 2, Type 3, and Type 4 PSEs interoperate with Type 1, Type 2, Type 3, and Type 4 PDs, subject to power limitations. See 145.2.7. When power limitations are present,	Proposed Response Response Status W
the PD may then operate in a reduced power mode.	TFTD
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	Heath, did you mean to change construction to configuration?
	C/ 145 SC 145.3.2 P 172 L 24 # 155
OBE by 256	Stewart, Heath Analog Devices
C/ 145 SC 145.2.1 P 103 L 26 # 153 Stewart, Heath Analog Devices Analog Devices	Comment Type ER Comment Status D Editoria The referenced sentences use of "in that case" does not make sense. Editoria Editoria
Comment Type ER Comment Status D Editorial	SuggestedRemedy
Need to add Type 3 and Type 4 for clarity	Change
SuggestedRemedy	The PD may operate in a reduced power mode in that case. To
Replace	When power limitations are present, the PD may then operate in a reduced power mode.
Table 145–2 summarizes the supported parameters of PSEs.	Proposed Response Response Status W
With Table 145–2 summarizes the supported parameters of Type 3 and Type 4 PSEs.	PROPOSED ACCEPT IN PRINCIPLE.
Proposed Response Response Status W	
PROPOSED ACCEPT.	OBE by 271

<i>CI</i> 145 SC 145. Stewart, Heath	Analog Devic	L 33	# 156	C/ 145 SC 145.1. Stover, David	3 P 102 Analog Device	L 22 s	# 158
Comment Type ER	C C		PD MPS	Comment Type TR	Comment Status X		Pres: Stover
"measured at the I MPS requirement. requirements were enforced at the PD accepting the remo Example for line 33	PD PI" was originally inserted due This phrase was specifically intri- _explicitly_ referenced to the PI PI, however we strongly feel the oval of the "measured at the PD	oduced to ensure D PI. Obviously the standard will be PI" in these two i	empts to deflate the that the MPS he entire standard is weakened by nstances (lines 33, 36).		VPSE, VPD, and PI definitions to draft."	o include 2-pair	
	inimum duration of TMPS PD fo			WFP			
no longer than TM	PDO_PD.	, ,	·	TFTD			
SuggestedRemedy Revoke removal o optional MPS drop	"measured at the PD PI" on line out".	es 33 and 36 just	prior to "followed by an	C/ 1 SC 1.4.254	4 P 24 Analog Device	L 33 s	# 159
Proposed Response	Response Status W			Comment Type TR	Comment Status X		Pres: Stover2
PROPOSED REJ	CT.			<i><i></i></i>	nection check, definitions, etc. for	r endspan/mids	
needs to have the	because it directly contradicts th worst-case cable resistance betw			SuggestedRemedy See stover_02_0417	7.pdf		
point.				Proposed Response	Response Status W		
CI 33C SC 33C.		L 18	# 157	WFP			
Stewart, Heath	Analog Devic	es	_	TFTD			
Comment Type ER The term "quasi-si abolished. What w	multaneous" has been introduce	d. This is a very o	Annex odd term and should be				
SuggestedRemedy							
Remove quasi and	figure out why this label is here.						
Proposed Response TFTD	Response Status W						
	re what happened to this comme r line is correct. I see the term o ing to?						

C/ 00 SC 0 Stover, David	P 1 Analog Devic	L 1	# 160	C/ 145 SC 145 Stover, David	.2.5.6	P 126 Analog Devic	L 33	# 163
	Comment Status D	.65	Editorial	,	n Com	ment Status D	63	Editoria
	nedy against D2.3 (#27): "Re mment through entire draft" T		ith "4 pairs". Editor to	Comment Type E "pse_allocated_p SuggestedRemedy	-		tion, proper case	Editoria e following semicolon.
SuggestedRemedy Replace "4-pair" with	"4 pair", "2-pair" with "2 pair",	"2-pairs" with "2	pairs".	(pse_allocated_p	wr_sec); P128	ariable…" Fix here and , L7 (do_update_pso _pri); P128, L32 (do	e_allocated_pwr); P128, L21
Proposed Response PROPOSED ACCEP	Response Status W I IN PRINCIPLE.			Proposed Response PROPOSED ACC	,	onse Status W		
27 in D2.3: "Use of "4-pairs" is wr	nment is asking for, so I will s ong through draft. The hyphe	n should only be	used when "4-pair" is	C/ 145 SC 145 Stover, David		P 133 Analog Devic	L 34 es	# 164
used as an adjective be no hyphen."	ex: 4-pair power). If "pair" or	"pairs" is used a	s a noun, there should	Comment Type E "pse_allocated_p		ment Status D nt is split over 2 lines	in state MARK_	Editoria _EV_LAST.
Editor to make sure ru	le is followed.			SuggestedRemedy				
C/ 145 SC 145.2.5. Stover, David	6 P 125 Analog Devic	L 43 ces	# 161	Extend width of s Proposed Response PROPOSED AC	Respo	assignment on a sing onse Status W	gle line.	
Comment Type ER "The tlce timer" "t lines; missing a space	Comment Status D o allow abbreviated classtimi between words.	ng duration." Tim	Editorial her name broken across	Cl 145 SC 145 Stover, David	.2.5.7	P 135 Analog Devic	L 42	# 165
SuggestedRemedy				Comment Type T	R Comi	ment Status X		PSE S
Join "tlce_timer" on a Proposed Response PROPOSED ACCEP	single line. Add a space betw Response Status W Г.	een "classtiming] ".	145-14 is broken	such that DLL	clearing of "pd_auto -based Autoclass re S is gated by "!pd_au	quests will never	E_ACS". Now, Figure r be serviced
C/ 145 SC 145.2.5. Stover, David	6 P 126 Analog Devic	L 23 ces	# 162	SuggestedRemedy Replace transition "MirroredPDAuto		LE_ACS to MEASU	RE_ACS with	
Comment Type ER "When a PD requests where Class needs pr	Comment Status D a higher class than a PSE ca oper case.	an support". I bel	<i>Editorial</i> ieve this is an instance	Proposed Response TFTD	Respo	onse Status W		
SuggestedRemedy "When a PD requests (pse_req_pwr_sec).	a higher Class than PSE car	n support." Fix he	ere and on P127, L2					
Proposed Response	Response Status W							

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

4/28/2017 2:16:03 PM

Cl 145 SC 145.3.3.2 P 173 L 26 # 166 Stover, David Analog Devices Image: Cl 145 Image: Cl 145	CI 145 SC 145.2.8.6.1 P 166 L 2 # 169 Thompson, Geoff GraCaSI S.A. GraCaSI S.S. <
Comment Type ER Comment Status D Editorial "pd_req_class A constant indicatingthe PD requested Class." Missing a space. Editorial	Comment Type ER Comment Status D Channel Current text in P802.3bt/D2.4: channel resistance Channel Channel Channel
SuggestedRemedy "pd_req_class A constant indicating the PD requested Class."	SuggestedRemedy Proposed text for P802.3bt/D2.5: link section resistance
Proposed Response Response Status W PROPOSED ACCEPT.	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
C/ 145 SC 145.3.6 P 187 L 52 # 167 Stover, David Analog Devices Analog Devices # 167 •	REF 204
Comment Type ER Comment Status D Editorial	Cl 145 SC 145.3.8.2.1 P 196 L 3 # 170 Thompson, Geoff GraCaSI S.A. GraCaSI S.A. GraCaSI S.A. Image: Comparison of the second se
"The PD shall draw no more powerthan defined for the requested class in Table" Proper case. SuggestedRemedy "than defined for the requested Class in Table" Proposed Response Response Status W PROPOSED ACCEPT.	Comment Type ER Comment Status D 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"
C/ 145 SC 145.2.8.6.1 P 165 L 46 # 168	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
Comment Type ER Comment Status D Channel Current text in P802.3bt/D2.4: channel resistance Channel Channel SuggestedRemedy Proposed text for P802.3bt/D2.5: link section resistance Channel	PROPOSED ACCEPT IN PRINCIPLE. (Seems to be a repeat of comment 171)
chompson, Geoff GraCaSI S.A. comment Type ER Comment Status D Channel Current text in P802.3bt/D2.4: channel resistance Channel SuggestedRemedy Proposed text for P802.3bt/D2.5: link section resistance Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT IN PRINCIPLE.	PROPOSED ACCEPT IN PRINCIPLE. (Seems to be a repeat of comment 171) REF 204 Cl 145 SC 145.3.8.2.1 P 196 L 3 # 171 Thompson, Geoff GraCaSI S.A. Comment Type ER Comment Status D Channel Current text in P802.3bt/D2.4: "PD regarding actual channel DC resistance between the
Thompson, Geoff GraCaSI S.A. Comment Type ER Comment Status D Channel Current text in P802.3bt/D2.4: channel resistance Channel Channel SuggestedRemedy Proposed text for P802.3bt/D2.5: link section resistance Proposed Response Response Status W	PROPOSED ACCEPT IN PRINCIPLE. (Seems to be a repeat of comment 171) REF 204 C/ 145 SC 145.3.8.2.1 P 196 L 3 # 171 Thompson, Geoff GraCaSI S.A. Comment Type ER Comment Status D Channe
Comment Type ER Comment Status D Channel Courrent text in P802.3bt/D2.4: channel resistance Channel Current text for P802.3bt/D2.5: link section resistance SuggestedRemedy Proposed text for P802.3bt/D2.5: link section resistance Proposed Response Response Status PROPOSED ACCEPT IN PRINCIPLE. W PROPOSED ACCEPT IN PRINCIPLE.	PROPOSED ACCEPT IN PRINCIPLE. (Seems to be a repeat of comment 171) REF 204 <i>Cl</i> 145 <i>SC</i> 145.3.8.2.1 <i>P</i> 196 <i>L</i> 3 # <u>171</u> Thompson, Geoff GraCaSI S.A. <i>Comment Type</i> ER <i>Comment Status</i> D <i>Channe</i> 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" <i>SuggestedRemedy</i> Proposed text for P802.3bt/D2.5: "PD regarding actual link section DC resistance, the PD

C/ 145 SC 145.3.8.2.1 P 196 L 8 # 172 Thompson, Geoff GraCaSI S.A. GraCaSI S.A.	C/ 145 SC 145.3.8.10 P 201 L 34 # 174 Thompson, Geoff GraCaSI S.A. GraCaSI S.A. Fractional Statement of the statement
Comment Type ER Comment Status D 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" 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" 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" Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. REF 204	Comment Type ER Comment Status D 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" SuggestedRemedy 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" 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" Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. W
Cl 145 SC 145.3.8.4.1 P 198 L 4 # 173 Thompson, Geoff GraCaSI S.A. GraCaSI S.A. Comment Type ER Comment Status D Channel Current text in P802.3bt/D2.4: "PD regarding actual channel DC resistance between the PSE PI and the PD PI, in any" SuggestedRemedy Proposed text for P802.3bt/D2.5: "PD regarding actual link section DC resistance, in any" Proposed Response Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT IN PRINCIPLE.	REF 204 Cl 145 SC 145.3.8.10 P 201 L 39 # 175 Thompson, Geoff GraCaSI S.A. Comment Type ER Comment Status D 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, 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,

C/ 145 SC 145.4.8 Thompson, Geoff	P 210 GraCaSI S.A.	L 16	# 176	CI 145 SC Thompson, Geo	145.4.9	P 213 GraCaSI S.A.	<i>L</i> 1	# 179
Comment Type ER Co Current text in P802.3bt/D2. unbalance (see 145A.1)"	omment Status D 4: "100BASE-TX shall e	nforce channe	Channel I intra-pair current			Comment Status D ot/D2.4: The requirements for thue, it is the "link segment" which		<i>Chann</i> tegory 5 channel are
SuggestedRemedy Proposed text for P802.3bt/I current unbalance (see 145/ Proposed Response Re PROPOSED ACCEPT IN PI REF 204	A.1)" sponse Status W	ll enforce link	section intra-pair	segment for scope of cl. Proposed Respo PROPOSED	ext for P802 100BASE 25. Donse	2.3bt/D2.5: The requirements fo Tx are found in 25.4.9. Specifi <i>Response Status</i> W IN PRINCIPLE.		
Current text in P802.3bt/D2. SuggestedRemedy Proposed text for P802.3bt/I	х с			Thompson, Geo Comment Type Current text pair operatio SuggestedReme Proposed te requirement	ER in P802.3t on edy ext for P802 for 4-pair of	P 265 GraCaSI S.A. <i>Comment Status</i> D ot/D2.4: Pair-to-pair channel res 2.3bt/D2.5: Pair-to-pair link sect operation		
C/ 145 SC 145.4.9 Thompson, Geoff	P 212 GraCaSI S.A.	L 51	# 178	Proposed Respo PROPOSEE		Response Status W IN PRINCIPLE.		
Current text in P802.3bt/D2. SuggestedRemedy Proposed text for P802.3bt/I	J. J		Channel	REF 204				

Comment Type ER Comment Status D Channel Current text in P802.3bt/D2.4: is the sum of channel pair components with the highest common mode resistance SuggestedRemedy Proposed text for P802.3bt/D2.5: is the sum of link section pair components with the highest common mode resistance Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. REF 204 Cl 145 SC 145.A.2 P 265 L 44 # 184
common mode resistance SuggestedRemedy Proposed text for P802.3bt/D2.5: is the sum of link section pair components with the highest common mode resistance Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. REF 204 C/ 145 SC 145.A.2 P 265 L 44 # 184
Proposed text for P802.3bt/D2.5: is the sum of link section pair components with the highest common mode resistance Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. REF 204 C/ 145 SC 145.A.2 P 265 L 44 # 184
highest common mode resistance Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. REF 204 Cl 145 SC 145.A.2 P 265 L 44 # 184
PROPOSED ACCEPT IN PRINCIPLE. REF 204 Cl 145 SC 145.A.2 P 265 L 44 # 184
REF 204 C/ 145 SC 145.A.2 P 265 L 44 # 184
Cl 145 SC 145.A.2 P 265 L 44 # 184
Thompson, Geoff GraCaSI S.A.
Comment Type ER Comment Status D Channel
Current text in P802.3bt/D2.4: is the sum of channel pair components with the lowest
common mode resistance
SuggestedRemedy Proposed text for P802.3bt/D2.5: is the sum of link section pair components with the lowest common mode resistance
Proposed Response Response Status W
PROPOSED ACCEPT IN PRINCIPLE.
REF 204
C/ 145 SC 145.A.2 P 265 L 47 # 185 Thompson, Geoff GraCaSI S.A. GraCaSI S.A.
Comment Type ER Comment Status D Channel
Current text in P802.3bt/D2.4: Channel common mode resistance is the resistance of the two conductors (including connectors) in a pair, connected in parallel. (Note that this is precisely INCORRECT according to the definitions in cabling standards.)
SuggestedRemedy
Proposed text for P802.3bt/D2.5: Link section common mode resistance is the resistance of the two conductors (including connectors) in a pair, connected in parallel.
Proposed Response Response Status W
PROPOSED ACCEPT IN PRINCIPLE.
REF 204

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.A.2 Thompson, Geoff	<i>P</i> 266 GraCaSI S.A.	L 2	# 186	Cl 145 Thompson,	SC 145.A.3 Geoff	P 267 GraCaSI S.A.	L 10	# 189
Comment Type ER Com	nment Status X		Channel	Comment	Type ER	Comment Status X		Channel
Current text in P802.3bt/D2.4: SuggestedRemedy Proposed text for P802.3bt/D2. Change alignment of both PI s Proposed Response Resp TFTD	.5: Change Channel to			followir of havii diagrar end pa that it i	ng reasons: 1) The ng a different shap n. (I gather that the ir-to-pair resistance	22.4: This measurement illus device on the right in a circl e is not just a resistance loa ere is only one but I am not s a" is not defined. Since it is (which one has to assume is diagram).	e is not define d. 2) There is sure) 3) The ri not defined as	d and by the implication no PI defined in this ight end of the "End to the PD PI, I assume
				Suggested	Remedy			
See 203 C/ 145 SC 145.A.3 Thompson, Geoff	P 266 GraCaSI S.A.	L 26	# [187	load at	the PSE PI and a to perform the test			
1 7	ment Status D		Channel	TFTD	response	Response Status W		
Current text in P802.3bt/D2.4: definition in cabling standards. "cabling")	channel (cables and		(This is at odds w/ the	C/ 145 Thompson,	SC 145.2.8.5 Geoff	P 161 GraCaSI S.A.	L 48	# 190
SuggestedRemedy Proposed text for P802.3bt/D2 Proposed Response Resp	.5:link section onse Status W					Comment Status D 02.4: Rchan-2P is the chann	el DC loop res	Channel sistance per pairset as
PROPOSED ACCEPT IN PRIM						ot/D2.5: Rchan-2p is the link	section DC lo	op resistance per
C/ 145 SC 145.A.3 Thompson, Geoff	P 267 GraCaSI S.A.	L 3	# 188	Proposed F PROP	Response DSED ACCEPT IN	Response Status W PRINCIPLE.		
Comment Type ER Com	ment Status D		Channel	REF 20)4			
Current text in P802.3bt/D2.4: SuggestedRemedy Proposed text for P802.3bt/D2.	•	,	21	C/ 145 Thompson,	SC 145.2.8.5.1 Geoff	P 162 GraCaSI S.A.	L 16	# 191
•	onse Status W		<i>,</i> ,			Comment Status D 02.4:along with any other p and the PD,	parts of the sy	Channel stem, i.e., channel
REF 204					,	ot/D2.5:along with the oth	er parts of the	system, i.e., the
				Proposed F		Response Status W		
TYPE: TR/technical required ER/e COMMENT STATUS: D/dispatched SORT ORDER: Comment ID					U/unsatisfied Z/v	Commen	nt ID 191	Page 46 of 72 4/28/2017 2:16:

Thompson, Geoff GraCaSI S.A.	C/ 145 SC 145.2.8.5.1 P 163 L 13 # 195 Thompson, Geoff GraCaSI S.A. GraCaSI S.S. GraCaSI S.S.<
Comment Type ER Comment Status D Channel Current text in P802.3bt/D2.4: ICon-2P-unb applies for channel common mode pair resistances Channel common mode pair Channel common mode pair	Comment Type ER Comment Status D Channe Current text in P802.3bt/D2.4: High channel resistance conditions. All resistances within 1% range.
SuggestedRemedy Proposed text for P802.3bt/D2.5: ICon-2P-unb applies for link section common mode pair resistances Proposed Response Response Status W	SuggestedRemedy Proposed text for P802.3bt/D2.5: High link section resistance conditions. All resistances within 1% range. Proposed Response Response Status W
PROPOSED ACCEPT IN PRINCIPLE. REF 204	PROPOSED ACCEPT IN PRINCIPLE. REF 204
CI 145 SC 145.2.8.5.1 P 162 L 27 # 193 Thompson, Geoff GraCaSI S.A. GraCaSI S.A.<	CI 145 SC 145.2.8.5.1 P 163 L 26 # 196 Thompson, Geoff GraCaSI S.A. GraCaSI S.A.<
Comment Type ER Comment Status D Channel Current text in P802.3bt/D2.4:under worst case conditions of channel pair to pair unbalance and PD PI pair to pair unbalance. SuggestedRemedy SuggestedRemedy Proposed text for P802.3bt/D2.5:under worst case conditions of link section pair to pair unbalance.	Comment Type ER Comment Status D Channe 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 SuggestedRemedy 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
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. REF 204	span of the channel is specified. I would prefer to use link section here for consistency.) Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.

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

channel common mode pair resistance RChan-2P from 0.2 Q to 12.5 Q and worst case unbalance contribution by a PD. (I don't understand waff vistal channel common mode pair resistance" is in this context. What are the measurement end points for this 'total channel" and what is the relevance to the specification 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.) SuggestedRemedy SuggestedRemedy Proposed text for P802.3bt/D2.5: fif we are to include these derivations they should be in an informative annex. motion of GraCaSI S.A. CriftS SC 145.2.8.5.1 P164 L 3 # 199 CriftS SC 145.2.8.5.1 P164 L 3 # 199 Thompson, Geoff GraCaSI S.A. Comment Type E Comment Status D CriftS SC 145.2.8.5.1 P164 L 10 # 199 Draft D1.8 is prepared for Task Force Review. SuggestedRemedy Proposed Response Response Status W Terro Proposed Response Response Status W Comment Type E Comment Status D Proposed Response GraCaSI S.A. Comment Status Citas S C 145.1.3 P101 L 31 # 20 SuggestedRemedy Proposed Response GraCaSI S.A. Comment Type E	# 198 C/ 145 SC 145.2.8.5.1 P 164 L 17 # 201 Thompson, Geoff GraCaSI S.A.		L 45	P 163 GraCaSI S.A.	Cl 145 SC 145.2.8.5.1 Thompson, Geoff
informative annex. Proposed Response Response Status W Proposed Response Response Status W GraCaSI S.A. CI 145 SC 145.2.8.5.1 P 164 L 3 # 199 Current text in P802.3bt/D2.4: Channel Channel SuggestedRemedy Ignore this comment, comment text can not be deleted on input sheet. Proposed text for P802.3bt/D2.4: Channel Channel SuggestedRemedy Ignore this comment, comment text can not be deleted on input sheet. Proposed text for P802.3bt/D2.5: Link Section Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. P 164 L 10 # 200 Thompson, Geoff GraCaSI S.A. Current text in P802.3bt/D2.4: The box on the far right in the figure is undefined. Is it a PD minus all of its resistance? Is it a PD minus all of its resistance? Is it a PD minus all of its resistance? Is it a PD minus all of its resistance? Is it a PD minus all of its resistance? Is it a PD minus all of its resistance? Is it a PD minus all of its resistance? Is it a PD minus all of its resistance? Is it a PD minus all of its resistance? Is it a PD minus all of its resistance? Is it a PD minus all of its resistance? Is it a PD minus all of its resistance? Is it appended Response Response Status W SuggestedRemedy Proposed text for P802.3bt/D2.5: ???? Proposed text for P802.3bt/D2.5: ???? Proposed text for P802.3bt/D2.5: ???? Proposed text for P802.3bt/D2.5:	are specified for total .5 Ω and worst case annel common mode points for this "total e have no control of ependent specification of how we came to the o separate devices.)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 to do this "evaluation"SuggestedRemedy Proposed text for P802.3bt/D2.5: ????Proposed Response TFTD	are specified for total 2.5 Ω and worst case hannel common mode l points for this "totalCurrent text in P8 this evaluation are circumstances do to do this "evaluation to do this "evaluation s of how we came to the wo separate devices.)Current text in P8 this evaluation are circumstances do to do this "evaluation to do this "evaluation <br< td=""><td>0.2 Ω to 12. hat "total cha rement end p at hand? We n by the inde Derivations o ch of the two</td><td>2.4: ICon-2P-unb and Equa ir resistance RChan-2P fro a PD. (I don't understand ontext. What are the meas levance to the specificatio de pair resistance" other the PSE, Link Section and PD ce in the specifications of</td><td>Current text in P802.3bt/ channel common mode p unbalance contribution b pair resistance" is in this channel" and what is the "total channel common n of each of the 3 elements values of each have no p SuggestedRemedy</td></br<>	0.2 Ω to 12. hat "total cha rement end p at hand? We n by the inde Derivations o ch of the two	2.4: ICon-2P-unb and Equa ir resistance RChan-2P fro a PD. (I don't understand ontext. What are the meas levance to the specificatio de pair resistance" other the PSE, Link Section and PD ce in the specifications of	Current text in P802.3bt/ channel common mode p unbalance contribution b pair resistance" is in this channel" and what is the "total channel common n of each of the 3 elements values of each have no p SuggestedRemedy
Cl 145 SC 145.2.8.5.1 P 164 L 3 # 199 Draft D1.8 is prepared for Task Force Review. Comment Type ER Comment Status D Current text in P802.3bt/D2.4: Channel Channel SuggestedRemedy Proposed text for P802.3bt/D2.5: Link Section Proposed text for P802.3bt/D2.5: Link Section REJECT. PROPOSED ACCEPT IN PRINCIPLE. V P164 L 10 # 200 Cl 145 SC 145.2.8.5.1 P 164 L 10 # 200 Cl Tompson, Geoff GraCaSI S.A. Comment Type ER Comment Status X Current text in P802.3bt/D2.4: The box on the far right in the figure is undefined. Is it a PD minus all of its resistence? Is it a PD minus all of its resistence? Is it a Something else? A test device perhaps. Where is it defined? Status W SuggestedRemedy Proposed text for P802.3bt/D2.4: The box on the far right in the figure is undefined. Is it a PD minus all of its resistence? Is it a Something else? A test device perhaps. Where is it defined? Status W SuggestedRemedy Proposed text for P802.3bt/D2.5: Comment text in P802.3bt/D2.5: Comment Type ER Comment Type Current text in P802.3bt/D2.4: The box on the far right in the figure is undefined. Is it a PD minus all of its resistence? Is it a PD minus all of its resistenc	CI 00 SC 0 P L # 202	C/ 00 SC 0	ese derivatioi		informative annex.
REF 204 Cl 145 SC 145.2.8.5.1 P 164 L 10 # 200 Thompson, Geoff GraCaSI S.A. Comment Type ER Comment Status X 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? Unbalance SuggestedRemedy Proposed text for P802.3bt/D2.5: ???? Proposed text for P802.3bt/D2.5: ???? Proposed Response Response Status W Thompson, Geoff GraCaSI S.A.	# 199 Channel Channel	# 199 Channel Channel The sector of the sect	L 3	GraCaSI S.A. Comment Status D 2.4: Channel /D2.5: Link Section	Cl 145 SC 145.2.8.5.1 Thompson, Geoff Comment Type ER Current text in P802.3bt/ SuggestedRemedy Proposed text for P802.3
Cl 145 SC 145.2.8.5.1 P 164 L 10 # 200 Thompson, Geoff GraCaSI S.A. GraCaSI S.A. Current text in P802.3bt/D2.4: Channel pairset maximum DC loop resistance (Rd Current text in P802.3bt/D2.4: The box on the far right in the figure is undefined. 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? SuggestedRemedy Proposed text for P802.3bt/D2.5: Comment Status W SuggestedRemedy Proposed text for P802.3bt/D2.5: ???? I have accepted all of the comments changing "channel" to "link section" so I thim makes sense. However, it is slightly odd to have different nomenclature for clau clause 145.				PRINCIPLE.	
See 186	 # 200 Current text in P802.3bt/D2.4: Channel pairset maximum DC loop resistance (RCh, Ω) SuggestedRemedy Proposed text for P802.3bt/D2.5: Link section pairset maximum DC loop resistance (RLS, Ω) Proposed Response Response Status W TFTD I have accepted all of the comments changing "channel" to "link section" so I think this makes sense. However, it is slightly odd to have different nomenclature for clause 33 and clause 145. 	 # 200 Current text in P8 SuggestedRemedy Proposed text for Ω) Proposed Response TFTD I have accepted a makes sense. Hoc clause 145. 	n the figure is D minus all o	GraCaSI S.A. Comment Status X 2.4: The box on the far righ e of its resistance? Is it a rice perhaps. Where is it o /D2.5: ????	Cl 145 SC 145.2.8.5.1 Thompson, Geoff Comment Type ER Current text in P802.3bt/ PD? Is it a PD minus so something else? A test d SuggestedRemedy Proposed text for P802.3

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 42 # 204 Thompson, Geoff GraCaSI S.A. GraCaSI S.S. GraCaSI S.S. <t< th=""><th>C/ 145 SC 145.1.3.2 P 102 L 47 # 206 Thompson, Geoff GraCaSI S.A. GraCaSI S.A. Figure 100 Figure 100</th></t<>	C/ 145 SC 145.1.3.2 P 102 L 47 # 206 Thompson, Geoff GraCaSI S.A. GraCaSI S.A. Figure 100
Comment Type ER Comment Status D Channel 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 Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT IN PRINCIPLE. Proposed Response Proposed Response PROPOSED ACCEPT IN PRINCIPLE.	 Comment Type ER Comment Status D 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 ANSI/TIA-568-C.2. Refer to Annex 33A for more information including 4-pair operation channel requirements for pair-to-pair resistance unbalance. SuggestedRemedy Proposed text for P802.3bt/D2.5: Link sections for all Types shall comply with the
This comment will be used to accept all comments related to the change of "channel" to "link section". All comments with "REF 204" in the response shall be considered accepted in principle and the editor is given license to replace occurance of "channel" with "link section" while considering the surrounding text. The comment should be used as a guide to how to do that properly.	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. <i>Proposed Response</i> Response Status W PROPOSED ACCEPT IN PRINCIPLE.
CI 145 SC 145.1.3.2 P 102 L 44 # 205 Thompson, Geoff GraCaSI S.A. GraCaSI S.A. GraCaSI S.A. Chank Comment Type ER Comment Status D Chank Current text in P802.3bt/D2.4: Within Clause 145 and its annexes, "channel", as defined ir 1.4.134, refers to the electrical path on which the power is transferred, i.e., the link section SuggestedRemedy	 Change to: 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 pair-to-pair resistance unbalance when operating over 4 pairs. TFTD, check annex reference
Proposed text for P802.3bt/D2.5: Within Clause 145 and its annexes, the term link section refers to the point-to-point medium connection between two and only two active Power Interfaces (PIs).	C/ 145 SC 145.2.7 P 150 L 20 # 207 Thompson, Geoff GraCaSI S.A. GraCaSI S.S. GraCaSI S.S.
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	Comment Type ER Comment Status D Channel Current text in P802.3bt/D2.4: There are 4 uses of the term "channel" in the following lines: 20, 36, 46, 48.
REF 204	SuggestedRemedy Proposed text for P802.3bt/D2.5: Replace each instance of "channel" with "link section".
	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
	REF 204

C/ 145 SC 145.2.7.1	1 P 154	L 3	# 208	CI 00	SC 0		Р	L	# 211
Thompson, Geoff	GraCaSI S.A.			Tremblay,	David		Hewlett Pack	ard Enter	
Comment Type ER	Comment Status D		Channel	Comment	Туре Е	Comm	nent Status X		Pres: Tremblay1
	bt/D2.4: NOTE—In a properly o Mark range due to the combina g.				0 1-6 Topics: out how other	er clauses linl	k to DTE/PoE.		
SuggestedRemedy				How t	o address us	e of DTE in cl	ause 145.		
Proposed text for P802 may not discharge to t PD capacitance and P	2.3bt/D2.5: NOTE—In a proper he VMark range due to the con	ly operating sy	stem, the port may or overall channel and		emblay_01_0				
Proposed Response	Response Status W			•	Response	Respor	nse Status W		
PROPOSED ACCEPT	,			WFP					
				TFTD					
Cl 145 SC 145.2.7.2 Thompson, Geoff	2 P 155 GraCaSI S.A.	L 13	# 209	CI 30	SC 30.12	.2.1.18z4	P 50	L 10	# 212
Comment Type ER	Comment Status D		Channel	Tuenge, J	ason		Pacific North	west Nati	
Current text in P802.3 resistance due to temp SuggestedRemedy Proposed text for P802	bt/D2.4:allocate enough pow	ower to cope v	increases in channel	n resc suited typica	accuracy of lution does n than "Accura lly specified a	2^-n bits, an ot ensure acc acy" in "aLldp) is ± the sum of	curacy of 2^-n. Sign Xdot3LocMeasVolta	ificant bits ("SigB ageAccuracy." Al reading or scale)	lso, accuracy is) and a fixed tolerance.
Proposed Response	Response Status W			Suggestee	Remedy				
PROPOSED ACCEPT	-								leasVoltageSigBits"
C/ 145 SC 145.2.8.8 Thompson, Geoff Comment Type ER	5 P 161 GraCaSI S.A. Comment Status D	L 22	# 210 Channel	accura truly e exam	acy and resol ffective resol ble, should 7-	ution are calc ution is report bit resolution	ulated from signific	ant bits. This wou harmonization o relative to readi	7b). Also clarify how uld help to ensure a of accuracy claims. For ng or full scale? Is
Current text in P802.3	bt/D2.4: Rchan is the channel lo	pop resistance	as defined 145.1.3		Response		nse Status W	. ,	
SuggestedRemedy				WFP					
Proposed text for P802 145.1.3	2.3bt/D2.5: Rchan is the link se	ction loop resis	stance as defined	TFTD					
Proposed Response PROPOSED ACCEPT	Response Status W								
REF 204									

C/ 30 SC 30.12.2.1.18z5 P 50 L 20 Tuenge, Jason Pacific Northwest Nati	# 213	C/ 30 SC 30.12.2.1.18z8 P 50 L 47 # 216 Tuenge, Jason Pacific Northwest Nati
Comment Type T Comment Status X Same comment for Current as for Voltage above.	Pres: Yseboodt6	Comment Type E Comment Status X Pres: Yseboodte No units are specified for aLldpXdot3LocVoltageMeasurement. Pres: Yseboodte Pres: Yseboodte
SuggestedRemedy Same change for Current as for Voltage above.		SuggestedRemedy Add reference to Table 79–7b—Measurements.
Proposed Response Response Status W WFP		Proposed Response Response Status W WFP
TFTD		TFTD
C/ 30 SC 30.12.2.1.18z6 P 50 L 29 Tuenge, Jason Pacific Northwest Nati	# 214	C/ 30 SC 30.12.2.1.18z9 P 51 L 4 # 217 Tuenge, Jason Pacific Northwest Nati
Comment Type T Comment Status X Same comment for Power as for Voltage above.	Pres: Yseboodt6	Comment Type E Comment Status X Pres: Yseboodt Same comment for Current as for Voltage above. Pres: Yseboodt Pres: Yseboodt
SuggestedRemedy Same change for Power as for Voltage above.		SuggestedRemedy Same change for Current as for Voltage above.
Proposed Response Response Status W WFP		Proposed Response Response Status W WFP
TFTD		TFTD
C/ 30 SC 30.12.2.1.18z7 P 50 L 38 Tuenge, Jason Pacific Northwest Nati	# 215	C/ 30 SC 30.12.2.1.18z10 P 51 L 13 # 218 Tuenge, Jason Pacific Northwest Nati Pacific Northwest Nati Pacific Northwest Nati Pacific Northwest Nati
Comment Type T Comment Status X Same comment for Energy as for Voltage above.	Pres: Yseboodt6	Comment Type E Comment Status X Pres: Yseboodte Same comment for Power as for Voltage above. Compare with aLldpXdot3LocPDRequestedPowerValue, aLldpXdot3LocPSEAllocatedPowerValue, etc.
SuggestedRemedy Same change for Energy as for Voltage above.		SuggestedRemedy
Proposed Response Response Status W WFP		Same change for Power as for Voltage above. Proposed Response Response Status W WFP
TFTD		TFTD

C/ 30 SC 30.12.2.1.18z1 Tuenge, Jason	1 P 51 Pacific Northv	L 22 vest Nati	# 219	Cl 30 SC 30.12.3.1.18z6 P 61 L 22 Tuenge, Jason Pacific Northwest Nati	# 222
Comment Type E Co Same comment for Energy a	omment Status X as for Voltage above.		Pres: Yseboodt6	Comment Type T Comment Status X Same comment for Power as for Voltage above.	Pres: Yseboodt6
SuggestedRemedy Same change for Energy as	for Voltage above.			SuggestedRemedy Same change for Power as for Voltage above.	
Proposed Response Res WFP	sponse Status W			Proposed Response Response Status W WFP	
TFTD				TFTD	
Cl 30 SC 30.12.3.1.18z4 Tuenge, Jason	P 61 Pacific Northv	L 1 vest Nati	# 220	Cl 30 SC 30.12.3.1.18z7 P 61 L 32 Tuenge, Jason Pacific Northwest Nati	# 223
Comment Type T Co See related comments regar	omment Status X ding Local subclause 3	0.12.2.1.18z4 ab	Pres: Yseboodt6 pove.	Comment Type T Comment Status X Same comment for Energy as for Voltage above.	Pres: Yseboodt6
SuggestedRemedy See related changes propos	ed for Local subclause	30.12.2.1.18z4 a	bove.	SuggestedRemedy Same change for Energy as for Voltage above.	
Proposed Response Res WFP	sponse Status W			Proposed Response Response Status W WFP	
TFTD				TFTD	
C/ 30 SC 30.12.3.1.18z5 Tuenge, Jason	P 61 Pacific Northv	L 12 vest Nati	# 221	C/ 30 SC 30.12.3.1.18z8 P 61 L 42 Tuenge, Jason Pacific Northwest Nati	# 224
Comment Type T Co Same comment for Current a	omment Status X as for Voltage above.		Pres: Yseboodt6	Comment Type E Comment Status X No units are specified for aLldpXdot3RemVoltageMeasurement.	Pres: Yseboodt6
SuggestedRemedy Same change for Current as	for Voltage above.			SuggestedRemedy Add reference to Table 79–7b—Measurements.	
Proposed Response Res WFP	sponse Status W			Proposed Response Response Status W WFP	
TFTD				TFTD	

Cl 30 SC 30.12.3.1.18z9 P 61 L 51 Tuenge, Jason Pacific Northwest Nati	# 225	C/ TableSC Table 79–7bP 86L 50# 228Tuenge, JasonPacific Northwest Nati
Comment Type E Comment Status X Same comment for Current as for Voltage above. SuggestedRemedy Same change for Current as for Voltage above.	Pres: Yseboodt6	Comment Type E Comment Status X Pres: Yseboo 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. SuggestedRemedy
Proposed Response Response Status W WFP TFTD		Change "Voltage accuracy" to "Voltage resolution." Also change "these bits" to "this integer." Proposed Response Response Status W WFP
Cl 30 SC 30.12.3.1.18z10 P 62 L 7 Tuenge, Jason Pacific Northwest Nati	# 226	TFTD C/ Table SC Table 79–7b P 86 L 52 # 229
Comment Type E Comment Status X Same comment for Power as for Voltage above.	Pres: Yseboodt6	C/ Table SC Table 79–7b P 86 L 52 # 229 Tuenge, Jason Pacific Northwest Nati
SuggestedRemedy Same change for Power as for Voltage above. Proposed Response Response Status W WFP TFTD		Comment Type E Comment Status X Pres: Yseboo Same comment for Current as for Voltage above. SuggestedRemedy Same change for Current as for Voltage above. Proposed Response Response Status W WFP WFP
C/ 30 SC 30.12.3.1.18z11 P 62 L 16 Tuenge, Jason Pacific Northwest Nati	# 227	TFTD C/ Table SC Table 79–7b P 87 L 5 # 230
Comment Type E Comment Status X Same comment for Energy as for Voltage above.	Pres: Yseboodt6	Tuenge, Jason Pacific Northwest Nati
SuggestedRemedy Same change for Energy as for Voltage above.		Comment Type E Comment Status X Pres: Yseboo Same comment for Power as for Voltage above.
Proposed Response Response Status W		SuggestedRemedy Same change for Power as for Voltage above.
WFP TFTD		Proposed Response Response Status W WFP TFTD

C/ Table SC Ta	able 79–7b	P 87	L 8	# 231	C/ 145	50 1	145.2.5.1.	1	P 112	L 37	# 233
Tuenge, Jason		Pacific North	+	# 231	Walker, Dy		14J.2.J.1.		Cisco	L 31	# 233
0	E	Comment Status X		Pres: Yseboodt6	Comment	•	TR	Comme	ent Status D		PSE SI
See related con	mments rega	arding subclause 30.12 t) should be 1 to 32.	.2.1.18z7 above.		alt_pri	can be then it a	assigned	in TEST_N	MODE. Also, the		l within its sentence to also modified to flow
SuggestedRemedy					beller.						
Same change f	for Energy a	s for Voltage above.			(D2.3	TODO -	Commen	t #247)			
Proposed Response	e R	esponse Status W			Suggested	Remed	У				
WFP TFTD						state d					s serving distinct roles Alternatives may be
C/ 145 SC 14 Walker, Dylan	45.3.2	P 172 Cisco	L 16	# 232	reverse other s	ed as lo state. In	ng as the	roles are e diagram, t	established in IDL	E and shall be m	naintained in every mary Alternative and
Comment Type	TR (Comment Status D		PD Types	To:						
"The PD shall b	•										
Mode." This shall shall "either" could be any polarity on t	not contain e construed the other Me	the word "either" and s as "one or the other", a ode.	hall be more spec and polarity insen	cific. More seriously, sitivity cannot assume	and be are na Proposed I	e mainta imed Pri <i>Respon</i>	ined in ev mary Alte	rery other s rnative and	Iternatives shall b state. In the state d Secondary Alte se Status W	diagram, the role	es of the Alternatives
Mode." This shall shall "either" could be any polarity on t SuggestedRemedy	not contain e construed the other Me	as "one or the other", a	hall be more spec and polarity insen	cific. More seriously, sitivity cannot assume	and be are na Proposed I PROP	e mainta med Pri <i>Respon</i> POSED /	nined in ev imary Alte se ACCEPT.	rery other s rnative and <i>Respons</i>	state. In the state d Secondary Alte se Status W	diagram, the role rnative."	es of the Alternatives
Mode." This shall shall "either" could be any polarity on t SuggestedRemedy Change: "The PD shall b	not contain e construed the other Mo	as "one or the other", a ode.	and polarity insen	cific. More seriously, sitivity cannot assume e power supply on either	and be are na Proposed I	e mainta imed Pri <i>Respon</i> POSED / SC /	iined in ev imary Alte se	rery other s rnative and <i>Respons</i>	state. In the state d Secondary Alte	diagram, the role	
Mode." This shall shall "either" could be any polarity on t SuggestedRemedy Change:	not contain e construed the other Mo	as "one or the other", a ode.	and polarity insen	sitivity cannot assume	and be are nai Proposed I PROP C/ 145	e mainta med Pri <i>Respon</i> OSED / SC ⁻ ylan	nined in ev imary Alte se ACCEPT.	rery other s rnative and <i>Respons</i> 1	state. In the state d Secondary Alte se Status W P 112	diagram, the role rnative."	es of the Alternatives
Mode." This shall shall "either" could be any polarity on the SuggestedRemedy Change: "The PD shall b Mode." To: "The PD shall b	not contain the construed the other Mo be implement	as "one or the other", a ode. nted to be insensitive to	and polarity insen the polarity of the the polarity of the	sitivity cannot assume e power supply on either e power supply on each	and be are nau Proposed I PROP C/ 145 Walker, Dy Comment Since a note to	e mainta med Pri Respon POSED / SC - ylan Type another provide	ACCEPT. 145.2.5.1. ER comment e a hint to	rery other s rnative and <i>Respons</i> 1 <i>Comme</i> seeks to the reade	state. In the state d Secondary Alte se Status W P 112 Cisco ent Status D remove the explicit	diagram, the role rnative." <i>L</i> 41 sit ping pong beh role reversal is p	es of the Alternatives # 234
Mode." This shall shall "either" could be any polarity on the SuggestedRemedy Change: "The PD shall b Mode." To: "The PD shall b mode regardles Proposed Response	not contain le construed the other Mo be implemen os of the pola le Ro	as "one or the other", a ode. Inted to be insensitive to Inted to be insensitive to	and polarity insen the polarity of the the polarity of the	sitivity cannot assume e power supply on either e power supply on each	and be are nau Proposed I PROPU CI 145 Walker, Dy Comment Since a note to (withou	e mainta imed Pri Respon POSED / SC - ylan Type another provide ut going	ACCEPT. 145.2.5.1. ER comment e a hint to	rery other s rnative and <i>Respons</i> 1 <i>Comme</i> seeks to the reade ory details	state. In the state d Secondary Alte se Status W P112 Cisco ent Status D remove the explic r that Alternative	diagram, the role rnative." <i>L</i> 41 sit ping pong beh role reversal is p	# 234 # 234 PSE SL avior from the SD, a
Mode." This shall shall "either" could be any polarity on the SuggestedRemedy Change: "The PD shall b Mode." To: "The PD shall b mode regardles	not contain le construed the other Mo be implemen os of the pola le Ro	as "one or the other", a ode. Inted to be insensitive to nated to be insensitive to arity of the power suppl	and polarity insen the polarity of the the polarity of the	sitivity cannot assume e power supply on either e power supply on each	and be are nau Proposed I PROPU CI 145 Walker, Dy Comment Since a note to (withou	e mainta imed Pri Respon POSED / SC - ylan Type another provide ut going	ACCEPT. 145.2.5.1. ER comment e a hint to into the g Commen	rery other s rnative and <i>Respons</i> 1 <i>Comme</i> seeks to the reade ory details	state. In the state d Secondary Alte se Status W P112 Cisco ent Status D remove the explic r that Alternative	diagram, the role rnative." <i>L</i> 41 sit ping pong beh role reversal is p	# 234 # 234 PSE SL avior from the SD, a
Mode." This shall shall "either" could be any polarity on the SuggestedRemedy Change: "The PD shall b Mode." To: "The PD shall b mode regardles Proposed Response	not contain le construed the other Mo be implemen os of the pola le Ro	as "one or the other", a ode. Inted to be insensitive to nated to be insensitive to arity of the power suppl	and polarity insen the polarity of the the polarity of the	sitivity cannot assume e power supply on either e power supply on each	and be are nai Proposed I PROP C/ 145 Walker, Dy Comment Since a note to (withou (D2.3 ⁻¹ Suggested Insert: "NOTE	e mainta imed Pri Respon POSED / SC ylan Type another providu ut going TODO - dRemed	ACCEPT. I45.2.5.1. ER comment e a hint to into the g Comment y ng 4-pair of	rery other s rnative and <i>Respons</i> 1 <i>Comme</i> seeks to the reade ory details t #247) operation, i	state. In the state d Secondary Alte se Status W P 112 Cisco ent Status D remove the explice r that Alternative s) seems appropri	diagram, the role rnative." <i>L</i> 41 tit ping pong beha role reversal is pr ate.	# 234 <i>PSE SL</i> avior from the SD, a
Mode." This shall shall "either" could be any polarity on the SuggestedRemedy Change: "The PD shall b Mode." To: "The PD shall b mode regardles Proposed Response	not contain le construed the other Mo be implemen os of the pola le Ro	as "one or the other", a ode. Inted to be insensitive to nated to be insensitive to arity of the power suppl	and polarity insen the polarity of the the polarity of the	sitivity cannot assume e power supply on either e power supply on each	and be are nai Proposed I PROP C/ 145 Walker, Dy Comment Since a note to (withou (D2.3 ⁻¹ Suggested Insert: "NOTE	e mainta imed Pri Respon OSED / SC - ylan Type another o providu ut going TODO - dRemed E—Durir Iternativ	ACCEPT. ACCEPT. 145.2.5.1. ER comment e a hint to into the g Comment y ng 4-pair of e B in IDL	rery other s rnative and <i>Respons</i> 1 <i>Comme</i> seeks to the reade ory details t #247) pperation, i E in order	state. In the state d Secondary Alte e Status W P112 Cisco ent Status D remove the explic r that Alternative s) seems appropria	diagram, the role rnative." <i>L</i> 41 tit ping pong beha role reversal is pr ate.	# [234 # [234 PSE SL avior from the SD, a robably a good idea

Cl 145 Walker, Dy		145.2.5.4	<i>P</i> 114 Cisco	L 20	# 235	C/ 145 Walker, Dy	SC 145.2 an	.5.7	<i>P</i> 129 Cisco	L 13	# 237
Comment 7		TR	Comment Status D		PSE SD	Comment 1		Сс	omment Status D		PSE SD
Stating for 4-pa	that th air oper	e other Ali ation and	ternative is assigned the Se misleading for 2-pair operat Primary despite a nonexister	ion, where the o	tive role is redundant	Via oth covere	er comment d by a note,	s, alt_pri so explici	assignment is clarified/ tly showing alternation		ne ping pong behavior is
(D2.3 T	TODO -	Commen	t #247)			· ·	ODO - Com	ment #24	+7)		
Suggested			,			Suggested In IDLE	-				
diagrar "a: Altı "b: Altı To: "A varia state d "a: Altı B is as "b: Altı	able us m." ernative ernative able us liagram ernative signed ernative signed	e A is assi e B is assi ed to selec " A is assi Secondar Secondar Secondar	ct which Alternative assume gned Primary, and Alternativ gned Primary, and Alternativ ct which Alternative assume gned Primary Alternative. W y Alternative." gned Primary Alternative. W y Alternative."	ve B is assigned ve A is assigned s the role of Pri /hen operating o	I Secondary." I Secondary." mary Alternative in the over 4 pairs, Alternative	Change "IF(ping IF(alt_r alt_pri ELSE alt_pri END END" To:	e: gpong_en) T ri=a) THEN <= b <=a	ned	sponse Status W		
		ACCEPT.					DSED ACCE				
<i>Cl</i> 145 Walker, Dy		145.2.5.4	<i>P</i> 119 Cisco	L 4	# 236	C/ 145 Walker, Dy	SC 145.2 an	.5.7	<i>P</i> 130 Cisco	L 6	# 238
covere (D2.3 1 Suggested Delete Proposed F	ner com d by a r TODO - <i>Remed</i> "pingpo Respon	note, so ex Commen y ong_en" va	,			D2.3 T Suggested	should be us ODO - Com Remedy T_MODE:	er define	omment Status D d in TEST_MODE. 47)		PSE SE
						"alt_pri Proposed F	<= user def Response DSED ACCE	Re	sponse Status W		

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

C/ 145 SC 145.6.1 Walker, Dylan	P 238 Cisco	L 19	# 239	C/ 145 SC 145.4.1 Walker, Dylan	P 204 Cisco	L 20	# 241
	Comment Status X other references to safety star conform to IEC 62368-1, but it ent #332)			Comment Type TR It's jumping the gun to subclause for IEC 623 (D2.3 TODO - Comme SuggestedRemedy See "Walker_1_0517_	ent #332)	ance. Also, need	Pres: Walker to add the pertinent
See "Walker_1_0517_ Proposed Response WFP TFTD	_rev_4.pdf" Response Status W			Proposed Response WFP TFTD	Response Status W		# 010
C/ 145 SC 145.4.1 Walker, Dylan	P 204 Cisco	L 16	# 240	C/ 145 SC 145.4.1 Walker, Dylan Comment Type TR	P 204 Cisco Comment Status X	L 22	# 242 Pres: Walker
Comment Type TR Need to add the pertir (D2.3 TODO - Comme	Comment Status X nent subclause for IEC 62368- ent #332)	1.	Pres: Walker1	21	require IEC 62368-1 complia 68-1.	ance. Also, need	
SuggestedRemedy See "Walker_1_0517_	_rev_4.pdf"			SuggestedRemedy See "Walker_1_0517_	_rev_4.pdf"		
Proposed Response WFP	Response Status W			Proposed Response WFP	Response Status W		
TFTD				TFTD			

C/ 145 SC 145.4.1 P 204 L 23 # 243 C/ 145 P 205 L 19 # 245 SC 145.4.1.1.2 Walker, Dylan Cisco Walker, Dylan Cisco Comment Type TR Comment Status X Pres: Walker1 Comment Type ER Comment Status X Pres: Walker1 It's jumping the gun to require IEC 62368-1 compliance. Also, need to add the pertinent "Guidance on these requirements may be found in Section 6 of IEC 60950-1 and IEC subclause for IEC 62368-1. 62368-1, as well as any local and national codes related to safety." (D2.3 TODO - Comment #332) Sentence can be slightly modified to clarify that the reference to "Section 6" only applies to IEC 60950-1. SuggestedRemedy See "Walker 1 0517 rev 4.pdf" (D2.3 TODO - Comment #332) Proposed Response Response Status W SuggestedRemedy WFP See "Walker_1_0517_rev_4.pdf" Proposed Response Response Status W TFTD WFP C/ 145 SC 145.4.1 P 204 L 27 # 244 TFTD Cisco Walker, Dylan Pres: Walker1 Comment Type **TR** Comment Status X P 262 C/ 145 SC 145.7.3.8 L 19 # 246 It's jumping the gun to require IEC 62368-1 compliance. Also, need to add the pertinent Walker, Dylan Cisco subclause for IEC 62368-1. Comment Type TR Comment Status X Pres: Walker1 PICS ES1 needs to be updated to include the option for IEC 62368-1 conformance. (D2.3 TODO - Comment #332) SuggestedRemedy (D2.3 TODO - Comment #332) See "Walker_1_0517_rev_4.pdf" SuggestedRemedy Proposed Response Response Status W See "Walker 1 0517 rev 4.pdf" WFP Proposed Response Response Status W WFP TFTD TFTD

C/ 145 SC 145.7.3.		L 38	# 247		C 1.4.254	P 24	L 33	# 249
Walker, Dylan	Cisco			Walker, Dylan		Cisco		
Comment Type TR	Comment Status X		Pres: Walker1	Comment Type	TR	Comment Status D		Definition
PICS PSEES1 needs accordance with IEC 6	to be updated to include the c 2368-1.	ption for Power	Source Class 2 in			a single PSE to a single PD nts #271, #255, and #308)	in a valid PoE s	ystem.
(D2.3 TODO - Comme	ent #332)			SuggestedRem		$\pi 3 \pi 277, \pi 200, and \pi 000)$		
SuggestedRemedy See "Walker_1_0517_	rev_4.pdf"			Change:		segment from a PSE to the I	PD."	
Proposed Response WFP	Response Status W			To: "The portior	n of the link	segment from the PSE to the	e PD."	
TFTD				Proposed Resp PROPOSE		Response Status W		
C/ 145 SC 145.2.6. Walker, Dylan	l P 145 Cisco	L 37	# 248		C 145.1.3	P 101	L 21	# 250
return invalid in a gene		o be clarified sir	Connection Check nee the function can	Walker, Dylan <i>Comment Type</i> "A power sy them."		Cisco Comment Status X sts of a single PSE, a single	PD, and the link	Editoria section connecting
(D2.3 TODO - Comme SuggestedRemedy	ents #271, #255, and #308)			This point n	eeds to be	further emphasized.		
Change:						nts #271, #255, and #308)		
"PSEs that will deliver	power on both pairsets shall o			SuggestedRem		nis #271, #255, and #506)		
connected to a single- both pairsets are inval	PD as specified in 145.2.7 to o signature PD configuration, a id."			Change:	-	sts of a single PSE, a single	PD, and the link	section connecting
the classification of a	power on both pairsets shall o PD as specified in 145.2.7 to o onfiguration, a dual-signature	determine if the	PSE is connected to a	To: "A valid pov connecting		consists only of a single PSE	, a single PD, ar	nd the link section
	Response Status W			Proposed Resp	onse	Response Status W		
Proposed Response	,			TFTD				

C/ 145 SC 145.2.5.6 Walker, Dylan	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"	Comment Status D is not alphabetized correctly	<i>.</i>	Editorial		Comment Status D Type 3 and Type 4 devices a	and their interaction	<i>Editoria</i> on with Type 1 and
SuggestedRemedy Please relocate to page	127 before function "do_de	tect_pri".		Type 2 devices." Could be read as thou	igh only the interaction is spe	cified.	
Proposed Response PROPOSED ACCEPT.	Response Status W			SuggestedRemedy "This clause specifies and Type 2 devices."	Type 3 and Type 4 devices a	as well as their inte	eraction with Type 1
C/ 1 SC 1 Yseboodt, Lennart	P 24 Philips	L 3	# 252	Proposed Response PROPOSED ACCEP	Response Status W		
	Comment Status D ving clause 1.3 is a place ho rior to entering sponsor ballo			Cl 145 SC 145.1.3 Yseboodt, Lennart Comment Type ER	P 101 Philips Comment Status D	L 21	# 255 Editoria
,	dded. Remove this Editor's I Response Status W	Note.		both."	be of a Type defined in Claus o mean a device can be mult		
C/ 145 SC 145 (seboodt, Lennart	P 99 Philips	L 1	# 253	<i>SuggestedRemedy</i> "The PSE and PD car combination."	n be of a Type defined in Clau	use 33 or Clause 1	145 in any
	Comment Status D s of 'class event' and 7 occu	rances of 'classi	Editorial fication event'.	(this was tricky to forn Proposed Response	nulate as intended, please ch Response Status W	eck)	
SuggestedRemedy Replace 'classification e	event' by 'class event'.			PROPOSED ACCEP	,		
Proposed Response PROPOSED ACCEPT.	Response Status W						

C/ 145 SC 145.2.1	P 103	L 23	# 256	C/ 145 SC 145.2.3	P 108	L 1	# 259
seboodt, Lennart	Philips			Yseboodt, Lennart	Philips		
Comment Type ER	Comment Status D		Editorial	Comment Type ER	Comment Status D		Editoria
	e 3, and Type 4 PSEs interope to power limitations. See 145.2 ."			Editor blindly executed and up: "Non-PSE Powering E	d comment #272 which produ quipement".	ced the following	g gem in Figures 145-8
SuggestedRemedy				SuggestedRemedy			
Remove the last two	sentences.			Change all occurence	s to "Non-powering equipmen	ıt".	
unneeded.	not wrong, they raise question			Proposed Response PROPOSED ACCEPT	Response Status W		
The main statement is demotion stuff for the	s that PSEs and PDs will inter- classification section.			C/ 145 SC 145 Yseboodt, Lennart	P 112 Philips	L 1	# 260
Proposed Response PROPOSED ACCEP	Response Status W			Comment Type ER	Comment Status D		Editoria
SuggestedRemedy Fix. Proposed Response PROPOSED ACCEP			# 257 Editorial	 page 122, subclause page 176, subclause page 271, subclause SuggestedRemedy Remove "Type 3 and " Proposed Response PROPOSED ACCEPT Delete Title of 145.2.5 	Response Status W IN PRINCIPLE.	ype 4 timers" ype 4 single-sig e 4 CC_DET_Si	nature functions" EQ timing diagrams"
C/ 145 SC 145.2.3 Yseboodt, Lennart Comment Type E	P 108 Philips Comment Status D	<i>L</i> 1	# 258 Editorial	- page 122, subclause - page 176, subclause	Type 4" from the following: 145.2.5.5 title "Type 3 and T 145.3.3.6 title "Type 3 and T 145B.1 title "Type 3 and Typ	ype 4 single-sigi	
Figure 145-8 is clippe	d at the top.						
SuggestedRemedy Fix.							
Proposed Response PROPOSED ACCEP	Response Status W						

C/ 145 SC 145.2.5.7	P 129	L 31	# 261	C/ 145 SC 145.2.7	P 150	L 8	# 263
seboodt, Lennart	Philips			Wendt, Matthias	Philips Lightin	g	
Comment Type T	Comment Status D		PSE SD	Comment Type ER	Comment Status D		PSE Powe
This was a late submiss	2.org/3/bt/public/mar17/yseb sion in March, which was pre t, as such it didn`t make into	sented.	startdetectfix.pdf		nimum power output a PSE sup gle-signature PD, or supplying p		
uggestedRemedy	02.org/3/bt/public/mar17/yse	hoodt 09 0317	startdetectfix pdf	Inconsistent with the 'assigned class' tidbi	same sentence for dual-signatu t.	ire below, whicl	n doesn`t mention the
	ö	00001_00_0017	_startueteethx.pui	SuggestedRemedy			
Proposed Response PROPOSED ACCEPT.	Response Status W				r output a PSE supports when p pair mode, is defined by Equati		e-signature PD, or
C/ 145 SC 145.2.5.7 Seboodt, Lennart SC 145.2.5.7 SC	P 132 Philips	L 43	# 262		the previous paragraph (line 6): r output a PSE supports depend		ned Class."
Comment Type TR State 'CLASS_EV3' to 'I Parens are in the wrong SuggestedRemedy	Comment Status D MARK_EV3' transition incorr place.	ectly implement	PSE SD ed from baseline.		entence on line 24 to match: t power a PSE supports on a pa ation (145-3)." <i>Response Status</i> W	airset when pow	ering a dual-signature
Change to: tcle3_timer_done * (pse_alternative = both)	*			PROPOSED ACCEF	•		
(pd_class_sig != 4) * ((pse_avail_pwr >= pd_e				Cl 145 SC 145.2.8 Wendt, Matthias	.1 P 158 Philips Lightin	L 51 g	# 264
(pse_avail_pwr > 5)) Proposed Response PROPOSED ACCEPT.	Response Status W				Comment Status D a load step of (IHold max _ VPo the maximum power per the PS		Editoria Class É."
				Linebreak in VPort_F	PSE-2P min.		
				SuggestedRemedy Add non-breaking hy	nhen		
				0,	•		
				Proposed Response PROPOSED ACCEF	Response Status W		

Wendt, Matthias	P 163 Philips Lighting	<i>L</i> 1	# 265	C/ 145 SC Yseboodt, Lenna	145.2.8.6 rt	P 164 Philips	L 35	# 268
This table is no longer ab SuggestedRemedy	Comment Status D 17 Rload_max and Rload_mir out Rload (which is now in Eq	uation 145-16		that pairset a single-signat max, starting	nd the expi ure PD sha with the fir	Comment Status D n each pairset between the train iration of T Inrush-2P . PSEs Il reach the POWER_ON sta st pairset transitioning into the	s that have assig ate on both pairs he POWER_UP	gned Class 5 to 8 to a sets within T Inrush-2P state, and where the
-	5-17 Unbalance load resistan Response Status W	ices"		Liberally mixe	es 'POWEF	ns to POWER_UP anytime v R_UP' and 'the POWER_UP the state name, but not 'stat	state'.	eriod."
C/ 145 SC 145.2.8.5.1 Wendt, Matthias	P 163 Philips Lighting	L 38	# 266	The very first point to the a		WER_UP (also in the subcla	ause title) is the	odd duck as it doesn't
Comment Type TR	Comment Status D		Unbalance	SuggestedReme	dy			
original text: "Rload_min = in equation 145-16 and 14 RPD_min/max.	= RPair_PD_min + RChunb_r 45-17 RPair_PD_min/max is u			"Power up or and the expir signature PD with the first	curs on ea ation of T I shall reach pairset tran	ch pairset between the trans nrush-2P . PSEs that have a n POWER_ON on both pairs sitioning into POWER_UP,	assigned Class 5 sets within T Inru and where the s	5 to 8 to a single- ush-2P max, starting
	RPD_min + RChunb_min, and					JP anytime within this time p to "Output current during pov		
Also, there is a missing w	/here subclause below the equ	uation. Add it.		Change subt			wei up.	
•	Response Status W	uation. Add it.		Proposed Respo PROPOSED	nse	Response Status W	wei up .	
Proposed Response PROPOSED ACCEPT IN Rpd is fixed by equation 5	Response Status W I PRINCIPLE. 53.			Proposed Respo PROPOSED Cl 145 SC	nse ACCEPT. 145.3.1	Response Status W	L 32	# 269
Proposed Response PROPOSED ACCEPT IN Rpd is fixed by equation 5	Response Status W I PRINCIPLE.			Proposed Respo PROPOSED CI 145 SC Yseboodt, Lenna	nse ACCEPT. 145.3.1 rt	Response Status W P 171 Philips		
Proposed Response PROPOSED ACCEPT IN Rpd is fixed by equation 5 Add "where" statement C/ 145 SC 145.2.8.5.1	Response Status W I PRINCIPLE. 53. below equations as appropria		# 267	Proposed Respo PROPOSED Cl 145 SC Yseboodt, Lenna Comment Type	nse ACCEPT. 145.3.1 rt E	Response Status W	L 32	
Proposed Response PROPOSED ACCEPT IN Rpd is fixed by equation 5 Add "where" statement	Response Status W I PRINCIPLE. 53. below equations as appropria	ate.		Proposed Respo PROPOSED CI 145 SC Yseboodt, Lenna Comment Type Table 145-18 SuggestedReme	ACCEPT. 145.3.1 rt E uses the h dy	Response Status W P 171 Philips Comment Status D neader "Single- or dual- sign	L 32 ature"	# [<u>269</u> РD Туре
Proposed Response PROPOSED ACCEPT IN Rpd is fixed by equation 5 Add "where" statement Cl 145 SC 145.2.8.5.1 Wendt, Matthias Comment Type TR original text: "a) Use Rloa resistance conditions." evaluation note referees i	Response Status W I PRINCIPLE. 53. below equations as appropria <i>P</i> 164 Philips Lighting	ate. <i>L</i> 24 Fable 145-17	# 267 Unbalance for low channel	Proposed Respo PROPOSED Cl 145 SC Yseboodt, Lenna Comment Type Table 145-18 SuggestedReme Replace by " Proposed Respo	ACCEPT. 145.3.1 rt E uses the h dy PD signatu nse	Response Status W P 171 Philips Comment Status D	L 32 ature"	
Proposed Response PROPOSED ACCEPT IN Rpd is fixed by equation 5 Add "where" statement Cl 145 SC 145.2.8.5.1 Wendt, Matthias Comment Type TR original text: "a) Use Rloa resistance conditions." evaluation note referees i calculation are listed.	Response Status W I PRINCIPLE. 53. below equations as appropria <i>P</i> 164 Philips Lighting <i>Comment Status</i> D ad_min and Rload_max from T	ate. <i>L</i> 24 Fable 145-17	# 267 Unbalance for low channel	Proposed Respo PROPOSED Cl 145 SC Yseboodt, Lenna Comment Type Table 145-18 SuggestedReme Replace by " Proposed Respo PROPOSED	nse ACCEPT. 145.3.1 rt E suses the h dy PD signatu nse ACCEPT I	Response Status W P 171 Philips Comment Status D neader "Single- or dual- sign re" which matches subclaus Response Status W	L 32 ature" e title 145.3.5	PD Type
Proposed Response PROPOSED ACCEPT IN Rpd is fixed by equation 5 Add "where" statement Cl 145 SC 145.2.8.5.1 Wendt, Matthias Comment Type TR original text: "a) Use Rloa resistance conditions." evaluation note referees i calculation are listed. SuggestedRemedy	Response Status W I PRINCIPLE. 53. below equations as appropria <i>P</i> 164 Philips Lighting <i>Comment Status</i> D Id_min and Rload_max from T in a) to Table 145-17 where as _min and Rload_max from equ	ate. <i>L</i> 24 Table 145-17 s there only th	# 267 <i>Unbalance</i> for low channel ne requirements for the	Proposed Respo PROPOSED Cl 145 SC Yseboodt, Lenna Comment Type Table 145-18 SuggestedReme Replace by " Proposed Respo PROPOSED	nse ACCEPT. 145.3.1 rt E suses the h dy PD signatu nse ACCEPT I	Response Status W P 171 Philips Comment Status D neader "Single- or dual- sign re" which matches subclaus Response Status W N PRINCIPLE.	L 32 ature" e title 145.3.5	PD Type

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 145.3.1 P 172 L 2	# 270	C/ 145	SC 145.3.2	P 172	L 24	# 271
Yseboodt, Lennart Philips		Yseboodt, L	ennart	Philips		
Comment Type E Comment Status D	PD Types	Comment T	ype ER	Comment Status D		Editoria
"Single-signature PDs that request Class 3 or less implement Multip Layer Classification and may implement Data Link Layer classification				Type 1, Type 2, Type 3, and 5. The PD may operate in a r		
Single-signature PDs that request Class 4 or greater implement both Physical Layer classification (see 145.3.6.1) and Data Link Layer cla	assification (see 145.5).		et in Note style ntence needs a			
Such Type 3 PDs request Class 4, 5, or 6, while Type 4 PDs reques	t Class / or 8.	SuggestedF	Remedy			
Dual-signature PDs implement Multiple-Event Physical Layer classif Layer Classification (see 145.5). Type 3 dual-signature PDs request each pairset, while Type 4 dual-signature PDs request Class 5 on at	Class 1, 2, 3, or 4 on	- Repla "PDs co	e to regular tex ce last sentence onnected to a Pa ate in a reduced	e by: SE that cannot supply the re	quested amount	of power can choose
The origin of all of this text used to be to describe whether PDs supp	oorted Single or	Proposed R	esponse	Response Status W		
Multiple event, and whether they support DLL or not. ALL of this text is redundant to the Table in the same section, with th PDs support Multiple Event Physical layer. But that is true for all Typ and as such doesn't need stating here.		- Chang	e to regular tex			
SuggestedRemedy			ce last sentence	e by: SE that cannot supply the re	augeted emount	of nowor may chaose
Remove quoted text.			ate in a reduced		questeu amount	of power may choose
Proposed Response Response Status W		TETD 1	his sentence is	misleading as PDs that get I	hooked up to a lo	wer nower PSF MUST
PROPOSED ACCEPT IN PRINCIPLE.			at a reduced p	ower mode (whether they jus		
Since Physical layer class is not mentioned in the table		C/ 145	SC 145.3.3.4	P 175	L 39	# 272
Replace quoted text with:		Yseboodt, L		Philips	L 39	# 272
"All Type 3 and Type 4 PDs Multiple-Event Physical Layer classifica	tion."	Comment T Redunc		Comment Status D after 'present_class_sig_B'		Editoria
		SuggestedF Fix.	Remedy			
		Proposed R PROPC	esponse SED ACCEPT	Response Status W		

Cl 145 SC 145.3.3.7 Yseboodt, Lennart	P 179 Philips	L 35	# 273	Cl 145 SC 1 Yseboodt, Lennart	45.3.5	P 187 Philips	L 29	# 274
Why does this mistake I dll_enabled is a control But it reads like a status	variable, set by the state ma variable. sense to call it 'dll_enable', t dll_enable	achine.	<i>Editorial</i> ts what it does.	20, on a given present an inv 57 V is applied This requireme 10.1V are appl During connec detection. The lowest pos signature is 2. If we extend th The way this is PD would need	Mode wi alid dete I to the o ent (whic lied to th tion cheo ssible co 7V + 1V e range s written, d to pass	Comment Status X shall present a valid detectio hen no voltage or current is a ction signature on that Mode other Mode. These requirement the defines what a single-sig Pl e 'corruptor' pairset. ck however, only voltages BE rruptor voltage that is guarant = 3.7V. down to 3.7V, we make the re- it specifies a PD to show a v is detection (not connection ch prruptor voltage on the other p	pplied to the ot when any volta nts apply to bot D is) applies or LOW 10.1V ma teed to create a equirement cor alid detection s ieck) which car	her Mode, and shall ige between 10.1 V and ih Mode A and Mode B." any when voltages above ay be used to corrupt an invalid detection rect. ignature. This says the
				20, on a given present an inva 57 V is applied <i>Proposed Respons</i> TFTD Lennart points	ature PD Mode wi alid dete I to the o se out a rea t his solu	shall present a valid detectio hen no voltage or current is a ction signature on that Mode other Mode. These requirement <i>Response Status</i> W al problem (the requirements ution will not always work (the pe voltage).	pplied to the ot when any volta nts apply to bot for DS don't ac	her Mode, and shall ge between 3.7 V and h Mode A and Mode B." ctually apply to the valid

C/ 145 SC 145.3.6 Yseboodt, Lennart	P 188 Philips	L 10	# 275	C/ 145 SC 14 Yseboodt, Lennart	5.3.6.2	P 191 Philips	L 39	# 278
	Comment Status D that request Class 4 or higher t least one of its Modes shall			145.3.6.1 with th	ting Autoclass s e exception that	the PD shall chan	ge its current duri	PD Class ification as specified in ng the first class event ACS max, as defined in
Type 'the => that' SuggestedRemedy "Single-signature PDs	that request Class 4 or high	er and dual-signa	ture PDs that request	Table 145-27."	t from 145.3.6.1			to affirm this is also the
	t least one of its Modes shall Response Status W			SuggestedRemedy Replace by: "A PD that imple	ments Autoclas	s shall change its c		
Cl 145 SC 145.3.6 Yseboodt, Lennart Comment Type ER	P 188 Philips Comment Status D	L 22	# 276 Editorial	Table 145-27."				S max, as defined in PD that implements
Swap the first two rows SuggestedRemedy Per comment.	s (header rows) of Table 145	-22, same for 14	5-12.	Proposed Response PROPOSED AC		nse Status W		
Proposed Response PROPOSED ACCEPT	Response Status W			Cl 145 SC 14 Yseboodt, Lennart Comment Type		P 195 Philips nent Status X	L 31	# 279 Pres: Yseboodt2
Cl 145 SC 145.3.6.1 Yseboodt, Lennart	P 189 Philips	L 9	# 277	"The behavior o	a PD is undefin			e a PD has reached
Comment Type E "DO_CLASSEVENT Spurious '-'.	Comment Status D		Editorial	May be a bit too SuggestedRemedy Adopt yseboodt		wer.pdf		
SuggestedRemedy "DO_CLASS_EVENT_	_AUTO"			Proposed Response WFP	Respo	nse Status W		
Proposed Response PROPOSED ACCEPT	Response Status W			TFTD				

C/ 145 SC 145.3.8.3 P 196 L 38 # 280 Yseboodt, Lennart Philips	C/ 145 SC 145.3.8.6 P 199 L 24 # 282 Yseboodt, Lennart Philips Philips
Comment TypeTRComment StatusDEditorial"A PSE limits the inrush current to I Inrush and I Inrush-2P, defined in Table 145-16, which is sufficient current to charge C Port or C Port-2P to V Port_PSE-2P when: - C Port < 180 mF for single-signature PDs assigned to Class 1 through 6 - C Port < 360 mF for single-signature PDs assigned to Class 7 or 8 - C Port < 180 mF for dual-signature PDs assigned to Class 1 through 4 - C Port < 180 mF for dual-signature PDs assigned to Class 5" Last two lines need to say CPort-2P.SuggestedRemedy Change CPort to CPort-2P for the last two lines in the list.	Comment Type TR Comment Status X Pres: Yseboodt1 In the transient section Figure 145-31 has the Y axis labeled as "Power", but then proceeds to show current levels. Upon reflection, the information in this Figure is provided in the text (minus a missing requirement). SuggestedRemedy Adopt yseboodt_01_0517_transients.pdf Proposed Response Response Status W WFP TFTD
Proposed Response Response Status W PROPOSED ACCEPT.	C/ 145 SC 145.3.8.8 P 200 L 17 # [283] Yseboodt, Lennart Philips
Comment Type E Comment Status X PD Power "Operating under 145.3.8.4.1 conditions is allowed if P Peak_PD and P Peak_PD-2P requirements are met and the total input power is less than or equal to P Class or P Class-2P at the PSE PI respectively when calculated over a 1 second interval." Text self-references and this is the second time we repeat that peak power is included in the total 'budget' for input power. I tried rewriting this, but always get into a corner where I need to use the word 'must'. Clearly indicates this text needs to be a shall, but we already have that. Also, 'calculated over a 1 second interval' means the calculation takes 1 second. Not what is meant.	 "Following a valid detection and a rising voltage transition from V valid to V Class_PD , the PD Physical Layer class signature shall be valid within T Class_PD as specified in Table 145-28 and remain valid for the duration of the classification period." The 'classification period' is ill defined. And sure enough, this comes straight out of 802.3af, where there was no mark and this statement made sense. SuggestedRemedy "Following a valid detection and a rising voltage transition from V valid or VMark_PD to V Class_PD , the PD Physical Layer class signature shall be valid within T Class_PD as specified in Table 145-28 and remain valid for the duration of the class event." Proposed Response Response Status W
SuggestedRemedy Remove quoted text. Proposed Response Response Status W TFTD, what was this text meant to do in the first place?	PROPOSED ACCEPT. C/ 145 SC 145.3.8.10 P 201 L 24 # 284 Yseboodt, Lennart Philips Comment Type ER Comment Status D Editoria. Equation 145-28 and 145-29 do not have a variable list below. SuggestedRemedy Fix.

	P 202	L 42	# 285	C/ 145 SC 145.7	P 240	L 4	# 288
Yseboodt, Lennart	Philips			Yseboodt, Lennart	Philips		
Comment Type T	Comment Status D		PD MPS	Comment Type ER	Comment Status D		Editoria
"PDs that detect a long in order to draw a lowe	g first class event in the range er standby MPS power."	of T LCE_PD m	ay reduce T MPS_PD	Remove the Editor's N SuggestedRemedy	Note warning us not to comme	nt against the PI	CS.
Reduce it compared to by the table.	what? This may be interprete	ed as reducing it	below what it allowed	Per comment. Proposed Response	Response Status W		
SuggestedRemedy				PROPOSED ACCEP	•		
	g first class event in the range raw a lower standby MPS pow		ay use the shorter T	C/ 145A SC 145A	P 265	L 1	# 289
Proposed Response	Response Status W			Yseboodt, Lennart	Philips		
PROPOSED ACCEPT				Comment Type E	Comment Status X uce Annex that shows an over	IVION OF ALL PSE	Pres: Yseboodt3
C/ 145 SC 145.5.3	P 219	L 31	# 286	TODO Lennari. Introd			
Yseboodt, Lennart	Philips			I can't believe I agree	d to do this		
Comment Type ER During the splitting of t	Comment Status D the DLL variable sections, sev	veral subclauses	<i>Editorial</i> became empty.	SuggestedRemedy Adopt yseboodt_03_0	517_overviewannex.pdf		
SuggestedRemedy				Proposed Response	Response Status W		
Delete:				WFP			
- 145.5.3.3.1 - 145.5.3.3.3 - 145.5.3.6.1				TFTD			
- 140.0.0.1						1 40	
- 145.5.3.6.3				C/ 30 SC 30.9	P 34	L 48	# 290
- 145.5.3.6.3	Response Status W			C/ 30 SC 30.9 Yseboodt, Lennart	P 34 Philips	L 48	# 290
- 145.5.3.6.3	•					L 48	# 290 Editoria
- 145.5.3.6.3 Proposed Response PROPOSED ACCEPT Cl 145 SC 145.5.3.4	I.5 P 227	L 18	# 287	Yseboodt, Lennart Comment Type ER	Philips Comment Status D rough 30.12 is included for the		Editoria
- 145.5.3.6.3 Proposed Response PROPOSED ACCEPT C/ 145 SC 145.5.3.4 Yseboodt, Lennart	1.5 <i>P</i> 227 Philips	L 18		Yseboodt, Lennart <i>Comment Type</i> ER "Editor's Note: 30.9 th	Philips Comment Status D rough 30.12 is included for the ponsor ballot."		Editoria
- 145.5.3.6.3 Proposed Response PROPOSED ACCEPT 27 145 SC 145.5.3.4 Seboodt, Lennart Comment Type E	I.5 P 227 Philips Comment Status D		Editorial	Yseboodt, Lennart Comment Type ER "Editor's Note: 30.9 th be removed prior to s	Philips Comment Status D rough 30.12 is included for the ponsor ballot."		Editoria
- 145.5.3.6.3 Proposed Response PROPOSED ACCEPT Cl 145 SC 145.5.3.4 (seboodt, Lennart Comment Type E Drawing goof in Figure	1.5 <i>P</i> 227 Philips		Editorial	Yseboodt, Lennart Comment Type ER "Editor's Note: 30.9 th be removed prior to s The time has probably SuggestedRemedy	Philips Comment Status D rough 30.12 is included for the ponsor ballot."	e convenience of	Editoria
- 145.5.3.6.3 Proposed Response PROPOSED ACCEPT Cl 145 SC 145.5.3.4 Yseboodt, Lennart Comment Type E	I.5 P 227 Philips Comment Status D		Editorial	Yseboodt, Lennart Comment Type ER "Editor's Note: 30.9 th be removed prior to s The time has probably SuggestedRemedy	Philips <i>Comment Status</i> D rough 30.12 is included for the consor ballot." y come subclauses from Clause 30 and <i>Response Status</i> W	e convenience of	<i>Editoria</i> the reader and shall

7/30 SC 30.12.2.1.21 P 51 L 43 # 291	CI 79 SC 79.3.2 P 75 L 48 # 293
seboodt, Lennart Philips	Yseboodt, Lennart Philips
Comment Type TR Comment Status D Manager	ent Comment Type TR Comment Status D
The managed object aLldpXdot3LocReducedOperationPowerValue in 30.12.2.1.21 does not have a corresponding field in the PoE LLDPDU. It does not appear in Clause 79 of 802.3-2015. There is also no remote variant of this object. After consulting with Mr. Law, the correct course of action is to remove this object. <i>uggestedRemedy</i> - Delete the Editor's Note on line 6, page 52 - Delete 30.12.2.1.21 - Delete the object in Table 30-7	 "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,). SuggestedRemedy Remove quoted text.
PROPOSED ACCEPT.	Proposed Response Response Status W PROPOSED ACCEPT.
P 79 SC 79 P 73 L 4 # 292	CI 79 SC 79.3.2.5 P 79 L 16 # 294
seboodt, Lennart Philips	Yseboodt, Lennart Philips
Comment Type ER Comment Status D Editor	rial Comment Type TR Comment Status D LL
"Editor's Note: Portions of Clause 79 are included for the convenience of the reader and shall be removed prior to sponsor ballot if they have not been modified." The time has probably come <i>tuggestedRemedy</i> Remove unmodified subclauses from Clause 79 and remove this note.	"The PD requested power value field shall contain the PD's requested power value defined in Table 79-5, for Type 1, Type 2, and single-signature Type 3 and Type 4 PDs. The fields for PD requested power value shall be set to the sum of PD requested power value Mode A and PD requested power value Mode B in Table 79- 6a, for Type 3 and Type 4 dual- signature PDs."
roposed Response Response Status W	This makes use of this field mandatory for Type 1 PDs, which was not the intention. We really only need to specify what dual-sigs need to do.
	SuggestedRemedy
PROPOSED ACCEPT.	
PROPOSED ACCEPT.	"The PD requested power value field shall contain the PD's requested power value define in Table 79-5." Append after: "Dual-signature Type 3 and Type 4 PDs shall use the sum of the PD requested power value Mode A and Mode B fields as the value for this field."
PROPOSED ACCEPT.	"The PD requested power value field shall contain the PD's requested power value defined in Table 79-5." Append after: "Dual-signature Type 3 and Type 4 PDs shall use the sum of the PD requested power

CI 79 SO	C 79.3.2.5	P 79	L 40	# 295	C/ 79	SC 7	9.3.2.6	P 79	L 46	# 296
seboodt, Lenn	nart	Philips			Yseboodt, L	Lennart		Philips		
omment Type	TR	Comment Status D		LLDP	Comment 7	Гуре	TR	Comment Status D		LL
145.3.8.2) t D2.3: "PD r	the PD may	ower value" is the maximum		,	"The Ps defined PDs."	SE alloc I in Tabl	cated pov le 79-6 fo	ver value field shall contain r PSEs connected to single	the PSE's allocat -signature PDs a	ed power value nd Type 1 and Type 2
,					Similar	issue a	s for the	PD requested power.		
This was ch during revie	0 1	art of the many changes to o	Jual-sig LLDP and	d was overlooked	Suggested	Remedy	/			
The current does not be	t version imp elong in Clau	poses a requirement on the l use 79. ality to the PD (<= just for Fr		nption, something that	defined Append	l in Tabl d after:	e 79-6."	ver value field shall contain		
uggestedRem	•				"Type 3 allocate	3 and Ty ed powe	/pe 4 PS er value A	Es connected to a dual-sigr Iternative A and Alternative	ature PD shall us B fields as the va	se the sum of the PSE alue for this field."
		alue" is the maximum input a ds to draw.	average power (s	ee 33.3.8.2 and			sum of t	he PSE allocated power va Iternative B field shall be p		
roposed Resp PROPOSE	oonse D ACCEPT.	Response Status W			value fi allocate field ma	ield for a ed powe ay be pr	a dual-sig er value A	nature PD for Type 3 and 1 Iternative A field and the P the PSE allocated power v	ype 4 PSEs. The SE allocated pow	sum of the PSE er value Alternative B
					Proposed F PROPO		Se CCEPT.	Response Status W		
					C/ 79		9.3.2.6a	P 80	L 30	# 297
					Yseboodt, L		oloizioa	Philips	200	11 201
					Comment 7	Гуре	TR	Comment Status X		LL
					"If Mod	e (X) is	non-activ	ve while the other mode is a ue shall be set to 0."	ctive, the inactive	PD requested power
					What is	s this try	ving to do	? The PD may wish to ask	for power on an u	unpowered Mode
					Suggested	Remedy	/			
					Strike s	sentence	e.			
					Proposed F TFTD	Respons	se	Response Status W		

CI 79	SC 79.3.2.6a	P 80	L 33	# 298
Ysebood	, Lennart	Philips		
<i>Commen</i> "The		Comment Status D ested power value Mode A	and PD requested	LLD power value Mode B
		set to value 0, for Type 3 a		
Rewo	ord, shorter.			
00	0	hall set the PD requested	power value Mode	A and Mode B fields
•	l Response POSED ACCEPT.	Response Status W		
CI 79	SC 79.3.2.6a	P 80	L 46	# 299
Ysebood	, Lennart	Philips		
Commen	t Type TR	Comment Status D		LLD
single Suggeste	e-signature. dRemedy	does not belong here in Cla uested power value Mode		
powe	ds to draw for the r		age power levels (see 145.3.8.2) the PD
powe inten			age power levels (see 145.3.8.2) the PD
powe inten Proposed	ds to draw for the r	espective pairset."	age power levels (see 145.3.8.2) the PD
powe inten Proposed	ds to draw for the r I Response	espective pairset." Response Status W	age power levels (see 145.3.8.2) the PD # 300
powe inten Proposed PRO CI 79	ds to draw for the r <i>I Response</i> POSED ACCEPT. SC 79.3.2.6c.	espective pairset." Response Status W		
powe inten Proposed PRO CI 79 Ysebood	ds to draw for the r I Response POSED ACCEPT. SC 79.3.2.6c. , Lennart	espective pairset." Response Status W 4 P 82		
powe inten Proposed PRO Cl 79 Ysebood	ds to draw for the r I Response POSED ACCEPT. SC 79.3.2.6c. , Lennart t Type T	espective pairset." <i>Response Status</i> W 4 <i>P</i> 82 Philips	L 5	# 300
power inten Proposed PRO Cl 79 Ysebood Commen There Suggeste Move	ds to draw for the r <i>Response</i> POSED ACCEPT. <i>SC</i> 79.3.2.6c. , Lennart <i>t Type</i> T e is a stray reserve <i>edRemedy</i> t the PSE power parts	espective pairset." <i>Response Status</i> W 4 <i>P</i> 82 Philips <i>Comment Status</i> D	L 5 eld (bit 10). nerge the reserved	# <u>300</u> <i>LLD</i> bits.

CI 79	SC 79.3.2.6d	P 83	L 30	# 301
Yseboodt, L	ennart	Philips		
Comment T	ype T	Comment Status D		LLDP
There a	re two stray bits	in 79-6d.		
SuggestedF	Remedy			
		served bits should be the h ch that the two reserved bit		
Proposed R	esponse	Response Status W		
PROPC	SED ACCEPT.			
CI 79	SC 79.3.2.6g	P 85	L 3	# 302
Yseboodt, L	ennart	Philips		
Comment T	ype TR	Comment Status X		Pres: Yseboodt4
		e		the transformation of the DOF
	add a time delay PD back on after	y field to the request power er this delay.	r down LLDP field	that makes the PSE
	PD back on afte		r down LLDP field	that makes the PSE
turn the SuggestedF	PD back on afte Remedy		r down LLDP field	that makes the PSE
turn the SuggestedF	PD back on afte Remedy seboodt_04_051	er this delay.	r down LLDP field	that makes the PSE
turn the SuggestedF Adopt y	PD back on afte Remedy seboodt_04_051	r this delay. 7_powerdowndelay.pdf	r down LLDP field	that makes the PSE
turn the SuggestedF Adopt y Proposed R	PD back on afte Remedy seboodt_04_051	r this delay. 7_powerdowndelay.pdf	r down LLDP field	that makes the PSE
turn the SuggestedF Adopt y Proposed R WFP	PD back on afte Remedy seboodt_04_051	r this delay. 7_powerdowndelay.pdf <i>Response Status</i> W <i>P</i> 207	L 33	# 303
turn the SuggestedF Adopt y Proposed R WFP TFTD	PD back on afte Remedy seboodt_04_051 esponse SC 145.4.4	r this delay. 7_powerdowndelay.pdf <i>Response Status</i> W	L 33	
turn the SuggestedF Adopt y Proposed R WFP TFTD C/ 145	PD back on afte Remedy seboodt_04_051 response SC 145.4.4	r this delay. 7_powerdowndelay.pdf <i>Response Status</i> W <i>P</i> 207	L 33	
turn the SuggestedF Adopt y: Proposed R WFP TFTD CI 145 Zimmerman Comment T Table 1-	PD back on afte Remedy seboodt_04_051 response SC 145.4.4 I, George type T	r this delay. 7_powerdowndelay.pdf <i>Response Status</i> W <i>P</i> 207 CME Consul	L 33 Iting/Aqua	# <u>303</u> AES
turn the SuggestedF Adopt y: Proposed R WFP TFTD CI 145 Zimmerman Comment T Table 1-	PD back on afte Remedy seboodt_04_051 esponse SC 145.4.4 I, George ype T 45-34 is inconsis SBASE-T.	r this delay. 7_powerdowndelay.pdf <i>Response Status</i> W <i>P</i> 207 CME Consul <i>Comment Status</i> D	L 33 Iting/Aqua	# <u>303</u> AES
turn the SuggestedF Adopt y Proposed R WFP TFTD Cl 145 Zimmerman Comment T Table 1 and 100 SuggestedF	PD back on afte Remedy seboodt_04_051 esponse SC 145.4.4 I, George type T 45-34 is inconsis BBASE-T. Remedy	r this delay. 7_powerdowndelay.pdf <i>Response Status</i> W <i>P</i> 207 CME Consul <i>Comment Status</i> D	L 33 Iting/Aqua	# <u>303</u> AES
turn the SuggestedF Adopt y Proposed R WFP TFTD Cl 145 Zimmerman Comment T Table 1 and 100 SuggestedF	PD back on after Remedy seboodt_04_051 response SC 145.4.4 I, George type T 45-34 is inconsis SBASE-T. Remedy upper frequency	r this delay. 7_powerdowndelay.pdf <i>Response Status</i> W <i>P</i> 207 CME Consul <i>Comment Status</i> D tent with new table 33-19b	<i>L</i> 33 Iting/Aqua	# <u>303</u> AES

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 145.2.5.1.1 P 112 L 51 # 304	C/ 145 SC 145.2.7 P152 L 24 # 307		
Zimmerman, George CME Consulting/Aqua	Zimmerman, George CME Consulting/Aqua		
Comment Type E Comment Status D PSE SD "Monitoring of MPS is handled by Figure Monitoring of inrush is handled by" nothing is	Comment Type E Comment Status D Editorial Parallel text - "A PSE shall return to IDLE if it fails PD. A PSE shall return to the IDLE		
handled by a figure. The figures describe state diagrams.	state" return to "IDLE" or to "IDLE state."		
SuggestedRemedy	SuggestedRemedy		
Change "is handled by" to "is described by the state diagrams in" (for MPS) and "is described by the state diagram in" (for inrush)	Change "IDLE state" to "IDLE"		
Proposed Response Response Status W	Proposed Response Response Status W		
PROPOSED ACCEPT.	PROPOSED ACCEPT IN PRINCIPLE.		
	Change "the IDLE state" to "IDLE"		
C/ 145 SC 145.2.6.5 P 148 L 42 # 305	C/ 145 SC 145.3.4 P 186 L 19 # 308		
Zimmerman, George CME Consulting/Aqua	Zimmerman, George CME Consulting/Aqua		
Comment Type E Comment Status D Editorial	Comment Type E Comment Status D Editoria		
#ABSOLUTE "NOTE—Detection and rejection criteria for Clause 145 remain unchanged from Clause 33, therefore ensuring interoperability with Clause 33 devices (see also	"PD requesting power" the "A" ("A PD requesting") was inadvertently struck out		
145.2.6.4)." we cannot guarantee interoperability - we strive for it, and we are doing this for	Suggested Remedy		
the purpose of interoperability.	Change to read "A PD requesting"		
SuggestedRemedy	Proposed Response Response Status W		
Change ", therefore ensuring" to "for the purpose of"	PROPOSED ACCEPT IN PRINCIPLE.		
Proposed Response Response Status W			
PROPOSED ACCEPT IN PRINCIPLE.	OBE by 102		
Change ", therefore ensuring" to "for the purpose of maintaining"	C/ 145 SC 145.4.7 P 210 L 7 # 309		
Cl 145 SC 145.2.7 P 150 L 19 # 306	Zimmerman, George CME Consulting/Aqua		
Zimmerman, George CME Consulting/Aqua	Comment Type TR Comment Status D AES		
Comment Type T Comment Status D Editorial	"shall meet the return loss requirements as specified in 14.3.1.3.4 for a 10 Mb/s PHY, in ANSI X3.263:1995 for a 100 Mb/s PHY, and 40.8.3.1 for a 1000 Mb/s PHY." doesn't		
"on the pairset" is incorrect, VPSE is applied "across the pairset" - also on p 150 L34, P160	include references and requirements for higher speed PHYs (2.5G, 5G, 10G).		
L19, P161 L6, P161 L21, and P169 L18 (note - this phrase is new text in this context in all	SuggestedRemedy		
places) SuggestedRemedy	Change "and 40.8.3.1 for a 1000 Mb/s PHY." to read, "in 40.8.3.1 for a 1000 Mb/s PHY,		
change "on " to "across " in the indicated instances.	126.8.2.2 for a 2.5 Gb/s or 5 Gb/s PHY, and 55.8.2.1 for a 10 Gb/s PHY."		
5	Proposed Response Response Status W		
	PROPOSED ACCEPT.		
PROPOSED ACCEPT.			

C/ 145 SC Lukacs, Miklos	P 166 Silicon Labs	L 24	# 310	
Comment Type ER	Comment Status X		PSE Power	
The 8.2ms tick mark on the PSE upperbound template in Figure 145-24 and 145-25 coincides with Tlim_2p_min on the lowerbound template.				
SuggestedRemedy				
Move away the 8.2ms and Tlim_2p_min tick marks horizontally.				
Proposed Response TFTD	Response Status W			

Is anyone else confused by this? The vertical dashed lines do not go all the way across to avoid this exact confusion.