C/ 145 SC 145				
Darshan, Yair	<i>P</i> Mirosemi	L	# 85	C/ 00 SC 0 P 1 L 1 # 160 Stover, David Analog Devices
Comment Type T	Comment Status D		Random	Comment Type ER Comment Status D Edi
To make sure that clau	use 145 contains the information 3 and 4 PSEs to support Type		or backwards	Adopted comment remedy against D2.3 (#27): "Replace "4-pairs" with "4 pairs". Editor to implement rules in comment through entire draft" This rule was not applied to similar matches (e.g., "2-pair", "2-pairs", "4-pairs").
SuggestedRemedy				SuggestedRemedy
If not ready to the mee	eting add to TO DO list			Replace "4-pair" with "4 pair", "2-pair" with "2 pair", "2-pairs" with "2 pairs".
Proposed Response PROPOSED REJECT	Response Status W			Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
	or remedy suggested by this cr against. As such, it is out of sc		d certainly no text that	Not sure what this comment is asking for, so I will simply restate the rules from commer 27 in D2.3:
C/ 00 SC 0 Thompson, Geoff	P GraCaSI S.A.	L	# 202	"Use of "4-pairs" is wrong through draft. The hyphen should only be used when "4-pair" i used as an adjective (ex: 4-pair power). If "pair" or "pairs" is used as a noun, there shoul be no hyphen."
Comment Type E Draft D1.8 is prepared	Comment Status D for Task Force Review.		Withdrawn	Editor to make sure rule is followed.
SuggestedRemedy				
Ignore this comment, o	comment text can not be delete	ed on input sl	neet.	
-	comment text can not be delete Response Status Z	ed on input sl	neet.	
Proposed Response REJECT.		·	neet.	
Proposed Response REJECT.	Response Status Z	L	# 211	
Proposed Response REJECT. This comment was WI C/ 00 SC 0 Tremblay, David	Response Status Z THDRAWN by the commenter	L		
Proposed Response REJECT. This comment was WI CI 00 SC 0 Tremblay, David Comment Type E TODO 1-6 Topics:	Response Status Z THDRAWN by the commenter P Hewlett Packar Comment Status X	L	# 211	
Proposed Response REJECT. This comment was WI C/ 00 SC 0 Tremblay, David Comment Type E TODO 1-6 Topics: Figure out how other c How to address use of	Response Status Z THDRAWN by the commenter P Hewlett Packar Comment Status X stauses link to DTE/PoE. DTE in clause 145.	L	# 211	
Proposed Response REJECT. This comment was WI Cl 00 SC 0 Tremblay, David Comment Type E TODO 1-6 Topics: Figure out how other c How to address use of SuggestedRemedy	Response Status Z THDRAWN by the commenter P Hewlett Packar Comment Status X stauses link to DTE/PoE. DTE in clause 145.	L	# 211	

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: Page, Line Pa **1** Li **1**

C/ FM	SC FM	P 1	L 12	# 3	C/ 1 SC 1		P 24	L 3	# 252
Anslow, Pete	•	Ciena			Yseboodt, Lennart		Philips		
Comment Ty	pe E	Comment Status D		Editorial	Comment Type	ER Co	omment Status D		Editoria
Unless th		that the amendment title has he title cannot be changed to h.					clause 1.3 is a place he o entering sponsor ball		
	the title back t	to match the PAR: "Physical	Layer and Manag	gement Parameters for	SuggestedRemedy A reference ha		I. Remove this Editor's	Note.	
	ver via MDI ov				Proposed Respons	e Re	sponse Status 🛛 🛛 🛛 🛛 🛛 🛛 🖉		
Proposed Re	sponse SED REJECT.	Response Status W			PROPOSED A	CCEPT.			
		e in respect to the title of the	amendment are	as follows.	C/ 1 SC 1 Schindler, Fred	4.236a	P 24 Seen Simply	<i>L</i> 24 , Cisco, T	# 128
Operation Title of D	ns Manual <ht Document. The</ht 	Review of draft standards' of ttps://standards.ieee.org/dev e title on the draft document e most recently approved PA	velop/policies/opm and submittal for	nan/sb_om.pdf> states m shall be within the	The existing te "A system cons pair cabling."	kt, sisting of one	omment Status D	provides power a	Definition
Standard scope as [3] Item 2 <https: c<br="">reads 'Is</https:>	Is Board Oper s stated on the 2 Of the RevC development.s the Title of the	rations Manual, the title on the most recently approved PA	ne draft document R.'. t/Public/mytools/a Scope of the PAR	pprove/subchklst.pdf> ?'.	Sections in Cla for this concerr SuggestedRemedy Replace the rei	uses 33 and a also remove rerenced sent		nts for this config ich device is doi	ng the powering.
Standard scope as [3] Item 2 <https: c<br="">reads 'Is Nothing s</https:>	Is Board Oper a stated on the 2 Of the RevC development.s the Title of the states that the	rations Manual, the title on the most recently approved PA com check list standards.ieee.org/myproject e submitted draft within the sey have to be equal and we b	ne draft document R.'. t/Public/mytools/a Scope of the PAR believe the title is	shall be within the pprove/subchklst.pdf> ?'. within the Scope.	Sections in Cla for this concerr <i>SuggestedRemedy</i> Replace the re "A system cons	uses 33 and also remove ferenced sent sisting of one	145 provide requireme s uncertainty about wh	nts for this config ich device is doi e power, and on	ng the powering. e PD, which may
Standard scope as [3] Item 2 <https: c<br="">reads 'ls Nothing s</https:>	Is Board Oper a stated on the 2 Of the RevC development.s the Title of the states that the SC FM	rations Manual, the title on the most recently approved PA com check list standards.ieee.org/myproject e submitted draft within the S	ne draft document R.'. t/Public/mytools/a Scope of the PAR	shall be within the pprove/subchklst.pdf> ?'.	Sections in Cla for this concerr <i>SuggestedRemedy</i> Replace the re "A system cons	uses 33 and a also remove ferenced sent sisting of one r, across bala	145 provide requireme as uncertainty about wh rence with, PSE, which may source	nts for this config ich device is doi e power, and on	ng the powering. e PD, which may
Standard scope as [3] Item 2 <https: c<br="">reads 'Is Nothing s C/ FM Anslow, Pete</https:>	Is Board Oper s stated on the 2 Of the RevC development.s the Title of the states that the SC FM	rations Manual, the title on the most recently approved PA com check list standards.ieee.org/myproject e submitted draft within the S ey have to be equal and we b P1 Ciena	ne draft document R.'. t/Public/mytools/a Scope of the PAR believe the title is	shall be within the pprove/subchklst.pdf> ?'. within the Scope. # 4	Sections in Cla for this concerr SuggestedRemedy Replace the re "A system cons consume powe	uses 33 and a also remove ferenced sent sisting of one r, across bala e Re	145 provide requireme as uncertainty about wh rence with, PSE, which may source anced twisted-pair cabl	nts for this config ich device is doi e power, and on	ng the powering. e PD, which may
Standard scope as [3] Item 2 <https: c<br="">reads 'Is Nothing s C/ FM Anslow, Pete Comment Ty</https:>	Is Board Oper a stated on the 2 Of the RevC development.s the Title of the states that the SC FM pe E	rations Manual, the title on the most recently approved PA com check list standards.ieee.org/myproject e submitted draft within the S ey have to be equal and we b P1 Ciena Comment Status D	t/Public/mytools/a cope of the PAR believe the title is	shall be within the pprove/subchklst.pdf> ?'. within the Scope. # 4 Editorial	Sections in Cla for this concerr SuggestedRemedy Replace the rei "A system cons consume powe Proposed Respons PROPOSED R	uses 33 and a also remove rerenced sent sisting of one r, across bala e Re EJECT.	145 provide requireme as uncertainty about wh rence with, PSE, which may source anced twisted-pair cabl sponse Status W	nts for this config ich device is doi e power, and on ing. (See IEEE S	ng the powering. e PD, which may td 802.3, Clause 33)."
Standard scope as [3] Item 2 <https: c<br="">reads 'ls Nothing s C/ FM Anslow, Pete Comment Ty/ Now that SuggestedRe</https:>	Is Board Oper s stated on the 2 Of the RevC development.s the Title of the states that the SC FM pe E IEEE Std 802 emedy	rations Manual, the title on the most recently approved PA com check list standards.ieee.org/myproject e submitted draft within the S ey have to be equal and we b P1 Ciena	e draft document R.'. t/Public/mytools/a Scope of the PAR believe the title is <i>L</i> 22 ed, "201x" should	shall be within the pprove/subchklst.pdf> ?'. within the Scope. # 4 Editorial be changed to "2017".	Sections in Cla for this concerr SuggestedRemedy Replace the rei "A system cons consume powe Proposed Respons PROPOSED R Your suggester explanations in	uses 33 and a also remove ferenced sent sisting of one r, across bala e Re EJECT. d remedy doe the commas sisting of one	145 provide requireme is uncertainty about wh ence with, PSE, which may source anced twisted-pair cabl sponse Status W is not add clarity to the , this is what you get: PSE and one PD acro	nts for this config ich device is doi re power, and on ing. (See IEEE S definition. If you	ng the powering. e PD, which may ttd 802.3, Clause 33)." remove the

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: Page, Line

Pa **24** Li **24**

C/ 1 SC 1.4.254 Walker, Dylan	P 24 Cisco	L 33	# 249	C/ 14 Schindler,	SC 14.4.416 Fred	P 24 Seen Simply	L 50	# 129
	Comment Status D		Definitions	Comment		Comment Status D	, CISCO, 1	
Comment Type TR A link section connects	a single PSE to a single PD	in a valid PoF				ODO related to D2.3 #91	and #209 for Fre	ed and Yair located on
			, jotoini	page ?	198 145.3.8.6 L22.	This work is also related		
	nts #271, #255, and #308)			by D1	.7 #94.			
SuggestedRemedy Change: "The portion of the link s To:	segment from a PSE to the	PD."		detern curren VPSE	nining whether PSE it below ILIM-2P. T . Therefore, the PS	n my TODO provided for E s charge the PD bulk cap he PD is a passive partici E needs to provide ILIM f	pacitance to a lev pant when the P for a TLIM that cl	el that keeps the PSE SE drops and raises its harges the PD
	segment from the PSE to the	e PD."			itance to its operatir 2015 requirements.	ng value. A class-4 PD is	designed to wor	k with the existing IEEE
Proposed Response PROPOSED ACCEPT.	Response Status W			SPICE	simulations of the tly. The proposed s	two PD tests in 145.3.8.6 solution clarifies PSE Typ		
C/ 1 SC 1.4.254	P 24	L 33	# 159	depen	dent on the PSE Ty	/pe.		
Stover, David	Analog Device	es			details	to a preview of this comm		
SuggestedRemedy See stover_02_0417.pc Proposed Response WFP	tion check, definitions, etc. fo If Response Status W	or endspan/mid	span conflicts."	as, "th suppo class. Type-2 when - curre	is PSE is capable or rting class-x". If a F Therefore, a Type 2 PSE using my inte the definition is test ently supports (wher	e form "A PSE that suppor of supporting class-x" while PSE assigns class-4 then 3 and Type 4 PSE provid erpretation. Note how the ed, h it is driving the PD), whice efore it is driving the PD),	e I interpreted th the PSE is only ling this power le e text is interpret ch is my view;	e text as "this PSE is supporting the assigned vel fits the definition of ed depends on the time
TFTD				a clas SPICE maxim	s-4 PD, which supp = simulations show the num capacitance the	provide a TLIM-2P of 10 orts interoperation. A Typ that when this PSE suppli at it takes less than 6 ms M-2P current demand.	be-4 PSE has a ⁻ ies 2x ILIM-2P to	TLIM-2P of 6 ms. the class-4 PD with th
						eed to support ILIM-2P or already a requirement for		support interoperation
				Suggested	Remedy			
					pe-3 and Type-4 Pa that is capable of	SE definitions starting on supporting".	page 24, replace	e " that supports"
				Proposed	Response	Response Status W		
				PROP	OSED REJECT.			
						d out the new suggested of for Type 3 PSE goes fro		e things are important).
		annerel require	t T/technical E/editorial G/c	reported		Pa 2		Page 3 of 71

TYPE: TR/technical required ER/editorial required GR/gener	al required T/technical E/editorial G/general	Pa 24	Page 3 of 71
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	Li 50	4/28/2017 2:15:38 PM
SORT ORDER: Page, Line			

Type 3 PSE: A PSE that supports up to Class 6 power levels, supports short MPS, and C/ 30 P43 L 15 # 8 SC 30.12.2.1.14 may support 4-pair power. (See IEEE 802.3, Clause 145). Anslow, Pete Ciena To: Comment Type Е Comment Status D **F**ditorial Type 3 PSE: A PSE that is capable of supporting up to Class 6 power levels, supports Applying the changes shown results in text that reads: "and whether it is Type 1 or or short MPS, and may support 4-pair power. (See IEEE 802.3, Clause 145). greater than Type 1" (double "or"). Same issue with the next sentence. This makes it seem like all Type 3 PSEs have to be able to support Class 6. This is not true. SuaaestedRemedv Change "or greater than Type 1" to "greater than Type 1" in two places. C/ 25 SC 25.4.6 P 29 L 17 # Anslow, Pete Ciena Proposed Response Response Status W PROPOSED ACCEPT. Comment Status D Comment Type Е Editorial The only text shown from 25.4.6 is the first paragraph. P 47 L 4 C/ 30 SC 30.12.2.1.181 # SuggestedRemedy Anslow, Pete Ciena Change the editing instruction to: "Change the first paragraph of 25.4.6 as follows: Comment Type **T** Comment Status D Management Proposed Response Response Status W Comment #57 against D2.3 and was ACCEPT IN PRINCIPLE with a pointer to comment PROPOSED ACCEPT. #122. The Comment #122 response was: "adopt darshan 03 0317Rev007F.pdf with editorial license to clean up. C/ 30 SC 30.9 P 34 / 48 # 290 This comment resolves comments: 55, 56, 57, 63, 70, 71, 104, 105, 106, 117, 118, 119, Yseboodt, Lennart Philips 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 Comment Status D Editorial Comment Type ER it rebut comment #57. "Editor's Note: 30.9 through 30.12 is included for the convenience of the reader and shall This comment therefore repeats comment #57: be removed prior to sponsor ballot." 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. The time has probably come... SuggestedRemedy SuggestedRemedy Change "PSE" to "local PSE" here and change "PSE" to "remote PSE" in 30.12.3.1.18I Remove unmodified subclauses from Clause 30 and remove this note. Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT. C/ 30 SC 30.9.1.1.10 P 37 L 50 # 6 Anslow, Pete Ciena Comment Type Е Comment Status X Management If subclause 30.9.1.1.10 is deleted, then the row for aPSEShortCounter in Table 30-4 has to be deleted. SuagestedRemedv Add instructions under 30.2.5 to delete the row for aPSEShortCounter in Table 30-4 . Proposed Response Response Status W TFTD

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: Page, Line

Pa **47** Li **4** Page 4 of 71 4/28/2017 2:15:38 PM

C/ 30 SC 30.12.2.1.18z4 P 50 L 10 Tuenge, Jason Pacific Northwest Nati	# 212 C/ 30 Tueng	SC 30.12.2. e, Jason		50 <i>L</i> 29 fic Northwest Nati	# 214
Comment Type T Comment Status X For an accuracy of 2^-n bits, an effective resolution of at least 2^-n is requnation does not ensure accuracy of 2^-n. Significant bits ("SigBits") suited than "Accuracy" in "aLldpXdot3LocMeasVoltageAccuracy." Also, a typically specified as ± the sum of a percentage (of reading or scale) and It isn't clear how this relates to the "number of accurate bits" (or bits of ac SuggestedRemedy	uired; however, 2^- Sa seems better ccuracy is Sugge a fixed tolerance. Sa ccuracy). Propo	estedRemedy	Comment Status ower as for Voltage al er as for Voltage abo Response Status	bove. we.	Pres: Yseboodt6
Change "aLldpXdot3LocMeasVoltageAccuracy" to "aLldpXdot3LocMeasV and change "accurate bits" to "useful significant bits" (see Table 79-7b). <i>A</i> accuracy and resolution are calculated from significant bits. This would he truly effective resolution is reported, and encourage harmonization of acc example, should 7-bit resolution mean 8% accuracy relative to reading or more information required to express accuracy as ±(X%+Y)?	Also clarify how The elp to ensure a	SC 30.12.2. e, Jason		50 <i>L</i> 38 fic Northwest Nati	# 215
Proposed Response Response Status W WFP TFTD C/ 30 SC 30.12.2.1.18z5 P 50 L 20 Tuenge, Jason Pacific Northwest Nati	Sa Sugge Sa # 213 Propo	stedRemedy	Comment Status nergy as for Voltage a rgy as for Voltage abo Response Status	ove.	Pres: Yseboodt6
Comment Type T Comment Status X Same comment for Current as for Voltage above.	Drace Vechecolt	TD			
SuggestedRemedy Same change for Current as for Voltage above.	C/ 30 Tueng	SC 30.12.2. e, Jason		50 <i>L</i> 47 fic Northwest Nati	# 216
Proposed Response Response Status W WFP		<i>ent Type</i> E o units are specified	Comment Status for aLldpXdot3LocVc		Pres: Yseboodt6
TFTD	00	s <i>tedRemedy</i> dd reference to Tabl	e 79–7b—Measurem	ents.	
	•	sed Response FP	Response Status	w	
		TD			

Pa **50** Li **47**

C/ 30 SC 30.12.2.1.18z9 P 51 L 4 # 217 Tuenge, Jason Pacific Northwest Nati	C/ 30 SC 30.12.2.1.21 P 51 L 43 # 291 Yseboodt, Lennart Philips
Comment Type E Comment Status X Pres: Ysek Same comment for Current as for Voltage above. SuggestedRemedy Same change for Current as for Voltage above. Suggested Response Response Status W WFP TFTD C/ 30 SC 30.12.2.1.18z10 P 51 L 13 # 218 Tuenge, Jason Pacific Northwest Nati	codd6 Comment Type TR Comment Status D Management 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. Management After consulting with Mr. Law, the correct course of action is to remove this object. SuggestedRemedy Delete the Editor's Note on line 6, page 52 Delete the object in Table 30-7 Proposed Response Response Status W
Comment Type E Comment Status X Pres: Ysek Same comment for Power as for Voltage above. Compare with aLldpXdot3LocPDRequestedPowerValue, aLldpXdot3LocPSEAllocatedPowerValue, et SuggestedRemedy Same change for Power as for Voltage above. Same change for Power as for Voltage above. W Proposed Response Response Status W TFTD TFTD	
CI 30 SC 30.12.2.1.18z11 P 51 L 22 # 219 Tuenge, Jason Pacific Northwest Nati Pres: Yseb Comment Type E Comment Status X Pres: Yseb Same comment for Energy as for Voltage above. SuggestedRemedy Same change for Energy as for Voltage above. Proposed Response Response Status W WFP TFTD	PROPOSED ACCEPT.

Pa **61** Li **1**

C/ 30 SC 30.12.3.1.18z5 P 61 L 12 Tuenge, Jason Pacific Northwest Nati	# 221	C/ 30 SC 30.12.3.1.18z8 P 61 L 42 Tuenge, Jason Pacific Northwest Nati	# 224
Comment Type T Comment Status X Same comment for Current as for Voltage above.	Pres: Yseboodt6	Comment Type E Comment Status X No units are specified for aLldpXdot3RemVoltageMeasurement.	Pres: Yseboodt6
SuggestedRemedy		SuggestedRemedy	
Same change for Current as for Voltage above.		Add reference to Table 79–7b—Measurements.	
Proposed Response Response Status W WFP		Proposed Response Response Status W WFP	
TFTD		TFTD	
Cl 30 SC 30.12.3.1.18z6 P 61 L 22 Tuenge, Jason Pacific Northwest Nati	# 222	C/ 30 SC 30.12.3.1.18z9 P 61 L 51 Tuenge, Jason Pacific Northwest Nati	# 225
Comment Type T Comment Status X Same comment for Power as for Voltage above.	Pres: Yseboodt6	Comment Type E Comment Status X Same comment for Current as for Voltage above.	Pres: Yseboodt6
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	
Cl 30 SC 30.12.3.1.18z7 P 61 L 32 Tuenge, Jason Pacific Northwest Nati	# 223	C/ 30 SC 30.12.3.1.18z10 P 62 L 7 Tuenge, Jason Pacific Northwest Nati	# 226
Comment Type T Comment Status X Same comment for Energy as for Voltage above.	Pres: Yseboodt6	Comment Type E 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 Response Status W WFP		Proposed Response Response Status W WFP	
TFTD		TFTD	

Pa **62** Li **7**

C/ 30 SC 30.12.3.1.18z11 P 62 L 16 # 227 Tuenge, Jason Pacific Northwest Nati	C/ 33 SC 33.2.1 P 63 L 34 # 11 Anslow, Pete Ciena
Comment Type E Comment Status X Pres: Yseboodt6 Same comment for Energy as for Voltage above. Same comment for Energy as for Voltage above. Same comment for Energy as for Voltage above.	Comment Type E Comment Status D Editorial "Change the last sentence" should be "Change the last paragraph" Editorial Editorial
SuggestedRemedy Same change for Energy as for Voltage above.	SuggestedRemedy change "last sentence" to "last paragraph"
Proposed Response Response Status W WFP	Proposed Response Response Status W PROPOSED ACCEPT.
TFTD C/ 33 SC 33.1.1 P 63 L 17 # 9	C/ 33 SC 33.2.2 P 63 L 41 # 12 Anslow, Pete Ciena
Anslow, Pete Ciena	Comment Type E Comment Status D Editorial 33.2.2 contains more text than is shown here.
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 Change the editing instruction to: "Change the first paragraph of 33.2.2 as follows:" Proposed Response Response Status W
SuggestedRemedy Correct the placement of the editing instructions throughout the draft	PROPOSED ACCEPT. C/ 33 SC 33.2.2 P 63 L 49 # 13
Proposed Response Response Status W PROPOSED ACCEPT.	Anslow, Pete Ciena
Cl 33 SC 33.2.1 P 63 L 32 # 10 Anslow, Pete Ciena Comment Type E Comment Status D Editorial	Comment Type E Comment Status D Editorial The inserted text contains 3 references to Figure 33-9. This figure is the "PSE state diagram", which seems incorrect. SuggestedRemedy Change "Figure 33-9" to "Figure 33-7" in 3 places.
The 802.3 Framemaker template says: Include existing headings for each layer above the heading being inserted or modified. SuggestedRemedy	Proposed Response Response Status W PROPOSED ACCEPT.
Add the heading for 33.2, 33.3, 33.8, and 33.8.3 Proposed Response Response Status W	C/ 33 SC 33.2.2 P 64 L 4 # 14 Anslow, Pete Ciena
PROPOSED ACCEPT.	Comment Type E Comment Status D Editorial "in the caption of Figure 33-5" should be "in the title of Figure 33-5"
	SuggestedRemedy Change "caption" to "title"
	Proposed Response Response Status W PROPOSED ACCEPT.
TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/ COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/w	

SORT ORDER: Page, Line

C/ 33 SC 33.4 P (Anslow, Pete Cien		# 15	C/ 33 SC 33.4.4 Anslow, Pete	<i>P</i> 65 Ciena	L 33	# 18
Comment Type E Comment Status	D	Editorial	Comment Type E	Comment Status D		Editorial
The editing instruction says: "Change 33.4 subclauses are present and most of them a			The text at the end of SuggestedRemedy	the first paragraph of 33.4.4 is	s being added bu	it is not underlined.
SuggestedRemedy Change this editing instruction to "Change				in Table 33–19b while operati ecified bandwidth."	ng at the specifie	ed speed, when
Add an editing instruction immediately after Proposed Response Response Status PROPOSED ACCEPT.		ange 33.4.6 as follows:"	Proposed Response PROPOSED ACCEP	Response Status W		
C/ 33 SC 33.4.3 Po Anslow, Pete Cien		# 16	C/ 33 SC 33.4.6 Anslow, Pete	<i>P</i> 66 Ciena	L 32	# 19
Comment Type E Comment Status In "Delete Equation 33-15, Equation 33-16	D	<i>Editorial</i>	Comment Type E The equation numbers	Comment Status D s in Clause 33 are incorrect.		Editorial
"associated text" is to be deleted. Also, the 33.4.3 as follows:", which conflicts with the SuggestedRemedy Remove the editing instruction: "Delete Eq	ere is a second editing in first.	nstruction "Change	SuggestedRemedy Change the equation 33.4.6 to 33-17a 33.4.9.1.1 to 33-18 fol 33.4.9.1.2 to 33-19			
associated text." Show the whole of 33.4.3 with Equation 33 strikethrough font.			Proposed Response PROPOSED ACCEP	Response Status W		
Proposed Response Response Status PROPOSED ACCEPT.	w		C/ 33 SC 33.4.6 Anslow, Pete	<i>P</i> 66 Ciena	L 32	# 20
C/ 33 SC 33.4.4 P (Anslow, Pete Cien		# 17	Comment Type E The units in equation	<i>Comment Status</i> D 33-17a (shown as 0-0a) shoul	ld be outside the	Editorial brackets.
Comment Type E Comment Status Only the first paragraph of 33.4.4 is shown SuggestedRemedy	-	Editorial	SuggestedRemedy Change "10mVpp/f" to Change "1mVpp" to " add "mV peak-to-peal		ing bracket.	
Change the editing instruction to: "Change Proposed Response Response Status PROPOSED ACCEPT.		3.4.4 as follows:	Proposed Response PROPOSED ACCEP	Response Status W		

Pa 4/2

Cl 33 SC 33.4.6 Anslow, Pete	P 66 Ciena	L 37	# 21	<i>CI</i> 33 Maguire, Va	SC 33.4.9.1 alerie	P 67 Siemon	L 5	# 112
Comment Type T	Comment Status D		Editorial	Comment T		Comment Status D		AES
2.5GBASE-T, 5GBAS Also, to match the otl	quency in MHz for a 10 Gb/s F SE-T, or 10GBASE-T. her values, fmax should just be		uation covers	At best, generic specific	, "telecom outlet" term for any cor rules about the	is a misused reference for inector in a channel or link s work area outlet and applic ion and should be removed	segment. Since ations-specific e	TIA and ISO/IEC have lectrical components,
SuggestedRemedy	unan su in Mille fan a 40 Ch/a Dil					ed as part of this ballot cyc		······g- ··
	uency in MHz for a 10 Gb/s PH frequency in MHz, 100 MHz fo			SuggestedF	Remedy			
T, and 500 MHz for 1 500 for 10GBASE-T"	0GBASE-T" to "fmax is 100 fo	r 2.5GBASE-T,	250 for 5GBASE-T, and		e all occurances n PSE".	of "connector or telecom ou	utlet Midspan PS	E" with "connector
Proposed Response PROPOSED ACCEP	Response Status W			Replace Midspa		of "Connector" or "telecom	outlet" Midspan	PSE' with '"Connector"
C/ 33 SC 33.4.9	P 67	L 3	# 22	Proposed R	Response	Response Status W		
Anslow, Pete	Ciena			PROPC	OSED ACCEPT I	N PRINCIPLE.		
Comment Type E	Comment Status D		Editorial	ALSO,	Apply change to	clause 145.4.9.1		
There is no change to	o 33.4.9			C/ 33	SC 33.4.9.1	P 67	L7	# 115
-	5 33.4.9			<i>Cl</i> 33 Maguire, Va	SC 33.4.9.1 alerie	<i>P</i> 67 Siemon	L 7	# 115
SuggestedRemedy Change the editing in	o 33.4.9 struction to: "Change 33.4.9.1	and 33.4.9.1.1	through 33.4.9.1.4 as	Maguire, Va	alerie	Siemon	L 7	# <u>115</u>
SuggestedRemedy	struction to: "Change 33.4.9.1 Response Status W	and 33.4.9.1.1 t	through 33.4.9.1.4 as	Maguire, Va <i>Comment T</i> An expl segmer	alerie <i>Type</i> T anation of Conne	Siemon Comment Status D ector Midspan PSE and how sible misuse of quotes, too	v it is implement	AES
SuggestedRemedy Change the editing in follows: Proposed Response PROPOSED ACCEP	struction to: "Change 33.4.9.1 <i>Response Status</i> W T.			Maguire, Va <i>Comment T</i> An expl segmer	alerie <i>ype</i> T anation of Conne nt is needed. Pos as part of this be	Siemon Comment Status D ector Midspan PSE and how sible misuse of quotes, too	v it is implement	AES
SuggestedRemedy Change the editing in follows: Proposed Response PROPOSED ACCEP Cl 33 SC 33.4.9.1	struction to: "Change 33.4.9.1 <i>Response Status</i> W T.	and 33.4.9.1.1 t	through 33.4.9.1.4 as # 117	Maguire, Va Comment T An expl segmen allowed SuggestedF Replace	alerie <i>T</i> anation of Connect tis needed. Pose as part of this be <i>Remedy</i> e, "The Midspan	Siemon <i>Comment Status</i> D ector Midspan PSE and how sible misuse of quotes, too allot cycle. PSE equipment to be inser	v it is implement . Apply change	AES ed within a link to clause 145.4.9.1 if
SuggestedRemedy Change the editing in follows: Proposed Response PROPOSED ACCEP Cl 33 SC 33.4.9.1 Maguire, Valerie	Istruction to: "Change 33.4.9.1 <i>Response Status</i> W T. <i>P</i> 67 Siemon		# [117	Maguire, Va Comment T An expl segmen allowed SuggestedF Replace	alerie <i>T</i> anation of Connect tis needed. Pose as part of this be <i>Remedy</i> e, "The Midspan	Siemon Comment Status D ector Midspan PSE and how sible misuse of quotes, too allot cycle.	v it is implement . Apply change	AES ed within a link to clause 145.4.9.1 if
SuggestedRemedy Change the editing in follows: Proposed Response PROPOSED ACCEP Cl 33 SC 33.4.9.1 Maguire, Valerie Comment Type E Quotes are not neede actual naming convert	Istruction to: "Change 33.4.9.1 <i>Response Status</i> W T. <i>P</i> 67 Siemon <i>Comment Status</i> D ed around the words "connector ntion of the component as user	L 5 pr" or "telecom o d in the docume	# 117 AES putlet" since this is	Maguire, Va Comment T An expl segmer allowed SuggestedF Replace shall me with, "A shall me	Alerie <i>type</i> T anation of Connect tis needed. Pose as part of this be <i>Remedy</i> e, "The Midspan eet the following connector Midspanet the following	Siemon <i>Comment Status</i> D ector Midspan PSE and how sible misuse of quotes, too allot cycle. PSE equipment to be inser transmission parameters." ban PSE replaces one of th transmission parameters."	v it is implement . Apply change ted as "connecto	AES red within a link to clause 145.4.9.1 if pr" or "telecom outlet"
SuggestedRemedy Change the editing in follows: Proposed Response PROPOSED ACCEP C/ 33 SC 33.4.9.1 Maguire, Valerie Comment Type E Quotes are not neede actual naming conver clause 145.4.9.1 if all	Istruction to: "Change 33.4.9.1 <i>Response Status</i> W T. <i>P</i> 67 Siemon <i>Comment Status</i> D ed around the words "connector	L 5 pr" or "telecom o d in the docume	# 117 AES putlet" since this is	Maguire, Va Comment T An expl segmer allowed SuggestedF Replace shall me with, "A shall me Proposed R	Alerie ype T anation of Connect it is needed. Pose as part of this back Remedy e, "The Midspan eet the following connector Midspect the following Response	Siemon <i>Comment Status</i> D ector Midspan PSE and how sible misuse of quotes, too allot cycle. PSE equipment to be inser transmission parameters." ban PSE replaces one of th transmission parameters." <i>Response Status</i> W	v it is implement . Apply change ted as "connecto	AES red within a link to clause 145.4.9.1 if pr" or "telecom outlet"
SuggestedRemedy Change the editing in follows: Proposed Response PROPOSED ACCEP Cl 33 SC 33.4.9.1 Maguire, Valerie Comment Type E Quotes are not needed actual naming convert clause 145.4.9.1 if all SuggestedRemedy	Astruction to: "Change 33.4.9.1 Response Status W T. P 67 Siemon Comment Status D ed around the words "connector ntion of the component as used lowed as part of this ballot cycl	L 5 or" or "telecom o d in the docume le.	# 117 AES putlet" since this is	Maguire, Va Comment T An expl segmer allowed SuggestedF Replace shall me with, "A shall me Proposed R	Alerie <i>type</i> T anation of Connect tis needed. Pose as part of this be <i>Remedy</i> e, "The Midspan eet the following connector Midspanet the following	Siemon <i>Comment Status</i> D ector Midspan PSE and how sible misuse of quotes, too allot cycle. PSE equipment to be inser transmission parameters." ban PSE replaces one of th transmission parameters." <i>Response Status</i> W	v it is implement . Apply change ted as "connecto	AES red within a link to clause 145.4.9.1 if pr" or "telecom outlet"
SuggestedRemedy Change the editing in follows: Proposed Response PROPOSED ACCEP Cl 33 SC 33.4.9.1 Maguire, Valerie Comment Type E Quotes are not needed actual naming convert clause 145.4.9.1 if all SuggestedRemedy	Istruction to: "Change 33.4.9.1 <i>Response Status</i> W T. <i>P</i> 67 Siemon <i>Comment Status</i> D red around the words "connector ntion of the component as user	L 5 or" or "telecom o d in the docume le.	# 117 AES putlet" since this is	Maguire, Va Comment T An expl segmer allowed SuggestedF Replace shall me with, "A shall me Proposed R PROPC	Alerie ype T anation of Connect is needed. Pose as part of this back Remedy e, "The Midspan eet the following connector Midspect the following Response DSED ACCEPT I	Siemon <i>Comment Status</i> D ector Midspan PSE and how sible misuse of quotes, too allot cycle. PSE equipment to be inser transmission parameters." ban PSE replaces one of th transmission parameters." <i>Response Status</i> W	v it is implement . Apply change ted as "connecto	AES red within a link to clause 145.4.9.1 if pr" or "telecom outlet"
SuggestedRemedy Change the editing in follows: Proposed Response PROPOSED ACCEP Cl 33 SC 33.4.9.1 Maguire, Valerie Comment Type E Quotes are not neede actual naming conver clause 145.4.9.1 if all SuggestedRemedy Delete quotes around	Astruction to: "Change 33.4.9.1 Response Status W T. P 67 Siemon Comment Status D ed around the words "connector ntion of the component as used lowed as part of this ballot cycl	L 5 or" or "telecom o d in the docume le. tlet".	# 117 AES putlet" since this is ent. Apply change to	Maguire, Va Comment T An expl segmer allowed SuggestedF Replace shall me with, "A shall me Proposed R PROPC	Alerie ype T anation of Connect is needed. Pose as part of this back Remedy e, "The Midspan eet the following connector Midspect the following Response DSED ACCEPT I	Siemon <i>Comment Status</i> D ector Midspan PSE and how sible misuse of quotes, too allot cycle. PSE equipment to be inser transmission parameters." pan PSE replaces one of th transmission parameters." <i>Response Status</i> W N PRINCIPLE.	v it is implement . Apply change ted as "connecto	AES red within a link to clause 145.4.9.1 if pr" or "telecom outlet"
SuggestedRemedy Change the editing in follows: Proposed Response PROPOSED ACCEP Cl 33 SC 33.4.9.1 Maguire, Valerie Comment Type E Quotes are not neede actual naming conver clause 145.4.9.1 if all SuggestedRemedy Delete quotes around	Astruction to: "Change 33.4.9.1 Response Status W T. P 67 Siemon Comment Status D ed around the words "connector ntion of the component as user lowed as part of this ballot cycl d "Connector" and "telecom our	L 5 or" or "telecom o d in the docume le. tlet".	# 117 AES putlet" since this is ent. Apply change to	Maguire, Va Comment T An expl segmer allowed SuggestedF Replace shall me with, "A shall me Proposed R PROPC	Alerie ype T anation of Connect is needed. Pose as part of this back Remedy e, "The Midspan eet the following connector Midspect the following Response DSED ACCEPT I	Siemon <i>Comment Status</i> D ector Midspan PSE and how sible misuse of quotes, too allot cycle. PSE equipment to be inser transmission parameters." pan PSE replaces one of th transmission parameters." <i>Response Status</i> W N PRINCIPLE.	v it is implement . Apply change ted as "connecto	AES red within a link to clause 145.4.9.1 if pr" or "telecom outlet"

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: Page, Line

Pa **67** Li **7** Page 10 of 71 4/28/2017 2:15:38 PM

C/ 33 SC 33.4.9.1	P 67	L 11	# 113	C/ 33	SC 33.4.9.1	P 67	L 16	# 114
titled, "Connector" or "to Apply change to clause SuggestedRemedy	Siemon <i>Comment Status</i> D work area or equipment cord elecom outlet" Midspan PSE e 145.4.9.1 if allowed as part 5 connector variants in clause .9.1.4	device transmi of this ballot cy	ssion requirements" cle.	AES Commo e Tyj Sugges Re ent Propos	a, Valerie b) Valerie b) t Type c) "of" instead of "of" c) tedRemedy b) ace "work area of c) Response OPOSED ACCEPT	equipment" with "work area o Response Status W	or equipment"	Editoria
Option 2: Move lines 1 ⁻ list of the 10 variants) t	1 - 23 (The sentence starting o clause 33.4.9.	with, "There ar	e 10 variants" and th		SC 33.4.9.1. , Valerie	4 <i>P</i> 68 Siemon	L 45	# 118
Proposed Response PROPOSED ACCEPT List only the 5 connector clause 33.4.9.1.4	Response Status W IN PRINCIPLE. or variants in clause 33.4.9.1	and move the	5 equipment variant	Hie out s to 33	let" Midspan PSE de 4.9.1. It is also mis	Comment Status D use should be the same level evice transmission requirements sing the information about tra- to clause 145.4.9.1.4 if allow	ents. It should no ansmission requi	t be a subclause of rements in the
Also, Apply change to	clause 145.4.9.1.			Sugges	tedRemedy			
not necessary to specil Apply change to clause	P 67 Siemon Comment Status D with a plug on one or both en fically call the assembly an "e e 145.4.9.1 if allowed as part	equipment cord	or "work area cord	uit is Re ". Propos	n, "33.4.9.2 Work ar uirements"	ork area or equipment cable rea or equipment cable Midsp on parameter subclauses acc <i>Response Status</i> W	oan PSE device	transmission
SuggestedRemedy Replace all occurances Midspan PSE".	s of "work area or equipment	cable Midspan	PSE" with "cord			o clause 145.4.9.1.4		
Proposed Response PROPOSED ACCEPT ALSO, Apply change to	-							

Pa **68** Li **45**

C/ 33	SC 3	3.4.9.1.4	P 68	L 47	#	119	
Maguire, V	/alerie		Siemon				
Comment	Type	т	Comment Status D				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

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

mment Type **T** Comment Status **D** In Table 33-20a, the reference Midspan PSE assembly is a cord, not a cable or cabling.

Apply change to Table 145-15 if allowed as part of this ballot cycle.

SuggestedRemedy

Replace, "Table 33–20a—Cable specifications for use with Midspan PSEs"

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

Replace, "Cabling specification"

with, "Cord specification"

Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.

ALSO, Apply change to Table 145-15

C/ 33	SC 33.4.9.1.7	P 69	L 38	# 109
Jones, Chad	l	Cisco		
Comment Ty	/pe E	Comment Status D		AES

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

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.

Proposed Response PROPOSED ACCEPT.		Response Status	w			
Cl 40 Anslow, P	SC 40.6 ete	P 7 Ciena	-	L 7	#	23
	<i>Type</i> E ere is no change	Comment Status to the text in 40.6, re	-	he two sentences.		Editorial
Suggestee Remo		nces on lines 7 and 9).			
	Response POSED ACCEPT	Response Status	w			
			-		_	

C/ 40 SC 4 Anslow, Pete	0.6.1.1	P 71 Ciena	L 14	# 24	Cl 79 Anslow, P	SC 79.3.2 ete	P 7: Ciena	• • •	# 26
<i>Comment Type</i> There is no ed		comment Status D on associated with the c	hange to 40.6.1.	<i>Editorial</i>	Comment The e		Comment Status a: "Change 79.3.2 as fo		Editoiral
SuggestedRemedy Add an editing		Change the first paragr	aph of 40.6.1.1 a	s follows:"	Suggested Delete	dRemedy the second inst	tance.		
Proposed Respons PROPOSED A		esponse Status W			•	Response POSED ACCEPT	Response Status T.	w	
C/ 79 SC 7 Yseboodt, Lennart		P 73 Philips	L 4	# 292	<i>Cl</i> 79 Schindler,	SC 79.3.2 Fred	P 7 Seen	5 <i>L</i> 47 Simply, Cisco, T	# 130
	Portions of C	Comment Status D Clause 79 are included f ponsor ballot if they have			<i>Comment</i> Addeo "Type	text,	Comment Status evices shall not suppor		LLDP e 4 extension."
The time has p SuggestedRemedy Remove unmo	/	e uses from Clause 79 ar	d remove this no	ote.	maxim what l	num available po egacy Types are	acy types from using T ower, Autoclass, and P e required to place in a	ower done. The exist	sting text does indicate
Proposed Respons		esponse Status W				the called-out te	ext.		
Cl 79 SC 7 Anslow, Pete		P 75 Ciena	L 19	# 25			Response Status T IN PRINCIPLE.	W	
Comment Type "TBD 8–255" s	should be "TB	omment Status D D 8 to 255"		Editorial	C/ 79 Yseboodt,	SC 79.3.2	P 7 ! Philips		# 293
SuggestedRemedy Change "TBD		3D 8 to 255"			Comment	Type TR	Comment Status	D	
Proposed Respons		esponse Status W			"Туре	1 and Type 2 de	evices shall not suppor	rt the Type 3 and Typ	e 4 extension."
PROPOSED A					It is ur An ob which	nclear what the p vious side-effect was the whole p	t is that T1/2 PDs canr point of the PD 4PID bi	it.	ate they support 4-pair, s (Autoclass, shutdown,
					Suggested	dRemedy			
					Remo	ve quoted text.			
						Response POSED ACCEPT	Response Status T.	w	
				I T/technical E/editorial G ISE STATUS: O/open W/		d U/unsatisfied	Z/withdrawn	Pa 75 Li 48	Page 13 of 71 4/28/2017 2:15:38 PM

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn Li 48 4/28/2017 2:15:38 PM SORT ORDER: Page, Line

-							
CI 79	SC 79.3.2.2	P 76	L 44	# 27	CI 79	SC 79.3.2.5	P
Anslow, F	Pete	Ciena			Schindler,	Fred	Seer
Commen	tType E	Comment Status D		Editorial	Comment	Type ER	Comment Status
	second and third se art of the base star	entence in strikethrough fon ndard.	t (starting "Type :	3 or Type 4 PSEs") is		D requested por	wer value field shall
Suggeste	dRemedy						e 1, Type 2, and sing er value shall be set t
Remo	ove the two senten	ces starting "Type 3 or Type	e 4 PSEs" on line	es 44 through 47.			ower value Mode B i
Proposed	l Response	Response Status W			signat	ure PDs."	
PRO	POSED ACCEPT.				Incorr	ectly reference th	ne field of Table 79-5
CI 79	SC 79.3.2.5	P 79	L 16	# 294	remov	es PD's and rep	laces it with PD.
Yseboodt		Philips			Suggested	Bomody	
Commen	t Type TR	Comment Status D		LLDP	00	ce the called out	toxt with
"The in Ta for Pl A and	PD requested pow ble 79-5, for Type D requested power	ver value field shall contain t 1, Type 2, and single-signat value shall be set to the su wer value Mode B in Table	ure Type 3 and 1 m of PD request	ed power value defined Type 4 PDs. The fields ed power value Mode	"The F Table PD re and P	PD requested po 79–5, for Type 1 quested power v	wer value field shall , Type 2, and single alue shall be set to t ver value Mode B in
		field mandatory for Type 1 F specify what dual-sigs need		ot the intention.		Response POSED ACCEPT	Response Status
Suggeste	dRemedy				Merge	with comment 2	.94.
in Ta Appe	ble 79-5." nd after:	rer value field shall contain t	·				
"Dua	-signature Type 3	and Type 4 PDs shall use t	he sum of the PC) requested power			

"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 Response Response Status W

PROPOSED ACCEPT.

C/ 79	SC 7	9.3.2.5	P 79	L 16	#	131	
Schindler	, Fred		Seen Simply	, Cisco, T			
Comment	t Type	ER	Comment Status D				LLDP

Il contain the PD's requested power value defined ngle-signature Type 3 and Type 4 PDs. The fields et to the sum of PD requested power value Mode in Table 79–6a, for Type 3 and Type 4 dual-

-5, which is PD requested power value. The fix

Il contain the PD requested power value defined in le-signature Type 3 and Type 4 PDs. The fields for the sum of PD requested power value Mode A n Table 79–6a, for Type 3 and Type 4 dual-

ıs W

Pa **79** Li 16

C/ 79 SC 79.3.2 (seboodt, Lennart	.5 <i>P</i> 79 Philips	L 40	# 295		<i>Cl</i> 79 Yseboodt,	SC 79.3 Lennart	.2.6	Р 79 Philips	L 46	# 296
Comment Type TR	Comment Status D			LLDP	Comment	Туре Т	ł	Comment Status D		LLD
145.3.8.2) the PD m	d power value" is the maximum		·					r value field shall contain PSEs connected to single		
This was showned a					Simila	ar issue as fo	or the Pl	D requested power.		
during review.	as part of the many changes to	dual-sig LLDP a	nd was overlooked		Suggested	dRemedy				
The current version does not belong in (imposes a requirement on the Clause 79. sonality to the PD (<= just for Fi		Imption, something	that	define Apper	ed in Table 7 nd after:	'9-6."	r value field shall contain		
uggestedRemedy								s connected to a dual-sigr ernative A and Alternative		
Replace by: "PD requested powe 145.3.8.2) the PD in	er value" is the maximum input itends to draw.	average power	(see 33.3.8.2 and		Delete	e (line 49-54 "The su): Im of the	PSE allocated power va	ue Alternative A	field and the PSE
roposed Response Response Status W PROPOSED ACCEPT.					value alloca field m	field for a du ted power v	ual-signa alue Alte ded in tl	ernative B field shall be pr ature PD for Type 3 and T ernative A field and the PS ne PSE allocated power v	ype 4 PSEs. The BE allocated pow	e sum of the PSE ver value Alternative B
					Proposed	Response		Response Status 🛛 🛛 🛛 🛛 🛛 🛛 🖉		
					PROF	POSED ACC	EPT.			
					CI 79	SC 79.3	.2.6	P 79	L 46	# 132
					Schindler,	Fred		Seen Simply	, Cisco, T	
					Comment	Type El	र	Comment Status D		LLD
						PSE allocate d in Table 7		r value field shall contain PSEs connected to single		
					Incorr	ectly referer	nce the f	ield of Table 7-6, which s	nould be PSE all	ocated power value.
					Suggested	dRemedy				
					"The F		ed powe	t with, r value field shall contain onnected to single-signatu		
					Proposed	Response		Response Status W		
					PROF	POSED ACC	EPT IN	PRINCIPLE.		
					OBE b	oy 296				
DE: TP/tochnical roa	uired ER/editorial required GR	lannaral raguira						Pa 7	_	Page 15 of 71

 COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 Li
 46
 4/28/2017
 2:15:38 PM

 SORT ORDER: Page, Line
 Page 15 of /1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1
 1

Comment Type ER Comment Status D LLDP Comment Transmitter The text, "The sum of the PSE allocated power value Alternative A field and 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 Alternative B field may be provided in the PSE allocated power value Alternative D for Type 1 and Type 2 PSEs." SuggestedRemedy SuggestedRemedy Replace the called-out text with, "The sum of the PSE allocated power value Alternative A field and 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 A field and the PSE allocated power value Alternative A field and the PSE allocated power value Alternative A field and the PSE allocated power value Alternative A field and the PSE allocated power value Alternative A field and the PSE allocated power value Alternative A field and the PSE allocated power value Alternative A field and the PSE allocated power value Alternative A field and the PSE allocated power value Alternative A field and the PSE allocated power value Alternative A field and the PSE allocated power value Alternative A field and the PSE allocated power value Alternative A field and the PSE allocated power value Alternative A field and the PSE allocated power value Alternative A field and the PSE allocated power value Alternative A field and the PSE allocated power value Alternative A field and the PSE allocated power value Alternative A field and the PSE allocated power value Alternative A field and the PSE allocated power va	t, Heath e <i>nt Tvpe</i> TR
The text, The "The sum of the PSE allocated power value Alternative A field and 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 B field and the PSE allocated power value Alternative B field and the PSE allocated power value Alternative B field and the PSE allocated power value Alternative D for Type 1 and Type 2 PSEs." SuggestedRemedy SuggestedRemedy Replace the called-out text with, The SUM of the PSE allocated power value Alternative A field and 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 shall 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. The sum of the PSE allocated power value Alternative A field and the PSE allocated power value Alternative B field and the PSE allocated power value field defined in Table 79-6 for Type 1 and Type 2 PSEs connected to a dual-signature PD. The sum of the PSE allocated power value Alternative B field and the PSE allocated power value Alternative B field and the PSE allocated power value Alternative B field and the PSE allocated power value Alternative B field and the PSE allocated power value Alternative B field and the PSE allocated power value Alternative B field and the PSE allocated power value Alternative B field and the PSE allocated power value Alternative B field and the PSE allocated power value Alternative B field and the PSE allocated power value Alternative B field and the PSE allocated power value Alternative B field and the provided in the PSE allocated power value Alternative B field shall be provided in the PSE allocated power value Alternat	ant Tune TP
"The sum of the PSE allocated power value Alternative A field and 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 and the PSE allocated power value Alternative B field and the PSE allocated power value Alternative B 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." Sig SuggestedRemedy SuggestedRemedy OI Replace the called-out text with, "The sum of 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 1 and Type 2 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. 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. 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 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. The sum of the PSE allocated power value Alternative B field shall be provided in the PSE allocated power value Alternative A field and the PSE allocated power value Alternative B field shall be provided in	
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 PD for Type 1 and Type 2 PSEs." Do should include a reference to the defining table, and the sentence can be reordered to improve clarity. Proposition SuggestedRemedy SuggestedRemedy PF SuggestedRemedy PF 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 Alternative B field may be provided in the PSE allocated power value Alternative B field may be provided in the PSE allocated power value Alternative B field shall be provided in the PSE allocated power value Alternative B field shall be provided in the PSE allocated power value Alternative B field shall be provided in the PSE allocated power value Alternative B field shall be provided in the PSE allocated power value Alternative B field shall be provided in the PSE allocated power value Alternative B field shall be provided in the PSE allocated power value Alternative B field shall be provided in the PSE allocated power value Alternative B field shall be provided in the PSE allocated power value Alternative B field shall be provided in the PSE allocated power value Alternative B field shall be provided in the PSE allocated power value Alternative B field shall be provided in the PSE allocated power value Alternative B field shall be pro	is appears to create a
improve clarity. Proposed SuggestedRemedy Proposed Response 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 OI 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." Comment Table 79-6 for Type 1 and Type 2 PSEs connected to a dual-signature PD." Proposed Response Response Status W Suggested Remedy OBE by 296 Ci 79 SC 79.3.2.6 P 79 L 50 # 148 Comment Type TR Comment Status D LLDP Awkward and backwards. Implies requirement is on PD when I think it is on PSE. Comment "yre 3 and Type 4 PSEs. Comment "yre 3 and Type 4 PSEs. SuggestedRemedy W W Change SuggestedRemedy W	stedRemedy lete e sum of the PSE alloo ue Alternative B field r nature PD for Type 1 a
SuggestedRemedy OI Replace the called-out text with, "The sum of the PSE allocated power value Alternative A field and the PSE allocated power value 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 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." OI Proposed Response Response Status W SuggestedRemedy Cir 79 OBE by 296 OI 148 Cir 79 Cir 79 Comment Type TR Comment Status D LLDP Awkward and backwards. Implies requirement is on PD when I think it is on PSE. The sum of the PSE allocated power value Alternative A field and the PSE allocated power value field for a dual-signature PD for Type 3 and Type 4 PSEs. W SuggestedRemedy W Comment Status D ULDP Awkward and backwards. Implies requirement is on PD when I think it is on PSE. The sum of the PSE allocated power value Alternative A field and the PSE allocated power value field for a dual-signature PD for Type 3 and Type 4 PSEs. W SuggestedRemedy W W Comment Type TR SuggestedRemedy W To a dual-signature PD for Type 3 and Type 4 PSEs To SuggestedRemedy	ed Response
Replace the called-out text with, OI "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." Anslow Proposed Response Response Status W Sugge PROPOSED ACCEPT IN PRINCIPLE. Cf Proposed OBE by 296 Proposed Proposed CI 79 SC 79.3.2.6 P 79 L 50 # 148 Stewart, Heath Analog Devices CI 79 Awkward and backwards. Implies requirement is on PD when I think it is on PSE. The sum of the PSE allocated power value Alternative A field and the PSE allocated power value field for a dual-signature PD for Type 3 and Type 4 PSEs. Comment Type SuggestedRemedy W Change Suggee for a dual-signature PD for Type 3 and Type 4 PSEs.	OPOSED ACCEPT IN
power value Alternative B field shall be provided in the PSE allocated power value field Cl 79 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 field defined in Table 79-6 for Type 1 and Type 2 PSEs connected to a dual-signature PD." Anslow Proposed Response Response Status W Sugge PROPOSED ACCEPT IN PRINCIPLE. Ct 79 C 79.3.2.6 P 79 L 50 # 148 OBE by 296 Cl 79 SC 79.3.2.6 P 79 L 50 # 148 Cl 79 Comment Type TR Comment Status D LLDP Ysebo Awkward and backwards. Implies requirement is on PD when I think it is on PSE. Comment Status D LLDP Comment "If" SuggestedRemedy W Change Sugges Sugges Sugges Sugges To To a dual-signature PD for Type 3 and Type 4 PSEs Type 4 PSEs Sugges Sugges	BE by 296
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."AnslowProposed Response PROPOSED ACCEPT IN PRINCIPLE.WSuggeOBE by 296C/79SC 79.3.2.6P 79L 50# 148Cl 79SC 79.3.2.6P 79L 50# 148C/Comment Type Value Alternative B field shall be provided in the PSE allocated power value field and the PSE allocated power value Alternative B field shall be provided in the PSE allocated power value Alternative B field shall be provided in the PSE allocated power value Alternative B field shall be provided in the PSE allocated power value Alternative PD for Type 3 and Type 4 PSEs.WSuggestedRemedy Change for a dual-signature PD for Type 3 and Type 4 PSEs ToWSugges	SC 79.3.2.6a
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."Comment "In "In PROPOSED ACCEPT IN PRINCIPLE.OBE by 296OBE by 296ProposeCI 79SC 79.3.2.6P 79L 50# 148Stewart, HeathAnalog DevicesCI 79Comment TypeTRComment StatusDLLDPAwkward and backwards. Implies requirement is on PD when I think it is on PSE. 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.WSuggestedRemedy Change for a dual-signature PD for Type 3 and Type 4 PSEsW	, Pete
PROPOSED ACCEPT IN PRINCIPLE. Cf OBE by 296 Propose CI 79 SC 79.3.2.6 P 79 L 50 # 148 Stewart, Heath Analog Devices CI 79 Comment Type TR Comment Status D LLDP Awkward and backwards. Implies requirement is on PD when I think it is on PSE. 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. Comment Status W SuggestedRemedy W Sugge for a dual-signature PD for Type 3 and Type 4 PSEs St	e <i>nt Type</i> E sert 79.3.2.6a through
OBE by 296 Prop L 50 # 148 Propose Cl 79 SC 79.3.2.6 P 79 L 50 # 148 Propose Stewart, Heath Analog Devices Cl 79 Cl 79 Ysebo Comment Type TR Comment Status D LLDP Ysebo Awkward and backwards. Implies requirement is on PD when I think it is on PSE. The sum of the PSE allocated power value Alternative A field and the PSE allocated power value field for a dual-signature PD for Type 3 and Type 4 PSEs. W SuggestedRemedy W Sugge for a dual-signature PD for Type 3 and Type 4 PSEs State St	stedRemedy
CI 79 SC 79.3.2.6 P 79 L 50 # 148 PF Stewart, Heath Analog Devices CI 79 Stewart, Heath CI 79 CI 79 CI 79 CI 79 CI 79 CI 79 Stewart, Heath CI 79 CI 79 CI 79 CI 79 CI 79 Stewart, Heath CI 79 CI 79 Ysebo Ysebo Comment Type TR Comment Status D LLDP Ysebo Ysebo Ysebo Comment Status Comment Status Comment Status Ysebo Comment Status Ysebo Comment Status Ysebo Comment Status Comment Status Ysebo Comment Status Comment Status Comment Status Ysebo Comment Status Ysebo Comment Status Ysebo Comment Status <td>ange "79.3.2.6f" to "79</td>	ange "79.3.2.6f" to "79
Cl 79 SC 79.3.2.6 P 79 L 50 # 148 Stewart, Heath Analog Devices Cl 79 Comment Type TR Comment Status D LLDP Awkward and backwards. Implies requirement is on PD when I think it is on PSE. 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. W SuggestedRemedy W Sugge for a dual-signature PD for Type 3 and Type 4 PSEs State St	ed Response
Stewart, Heath Analog Devices Cl 79 Comment Type TR Comment Status D LLDP Awkward and backwards. Implies requirement is on PD when I think it is on PSE. 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. Comment Suggested Remedy W Change for a dual-signature PD for Type 3 and Type 4 PSEs Sugges Stages Stages	OPOSED ACCEPT.
Comment Type TR Comment Status D LLDP Ysebo Awkward and backwards. Implies requirement is on PD when I think it is on PSE. 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. Comment "If 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. W SuggestedRemedy W Change for a dual-signature PD for Type 3 and Type 4 PSEs St Sugges	SC 79.3.2.6a
Awkward and backwards. Implies requirement is on PD when I think it is on PSE. Comm. 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. Comm. SuggestedRemedy W Change Sugge for a dual-signature PD for Type 3 and Type 4 PSEs St	odt, Lennart
Change Sugge for a dual-signature PD for Type 3 and Type 4 PSEs St To	ent Type TR Mode (X) is non-active ue Mode (X) field valu
for a dual-signature PD for Type 3 and Type 4 PSEs St To	nat is this trying to do
	s <i>tedRemedy</i> ike sentence.
for Type 3 and Type 4 PSEs connected to dual-signature PDs Propos	ed Response
Proposed Response Response Status W TF	TD
OBE by 296	elieve this is Yair's wa

C/ 79	SC 79.3.2.6	P 79	L 51	#	149	
Stewart, Hea						
Comment Ty	rpe TR	Comment Status)		LLDP	
This appears to create a requirement on existing Type 1 and Type 2 PSEs.						

allocated power value Alternative A field and the PSE allocated power eld may be provided in the PSE allocated power value field for a duale 1 and Type 2 PSEs.

Response Status W

T IN PRINCIPLE.

CI 79	SC 79.3.2.6a	P 80	L 23	# 28
Anslow, Pete		Ciena		
Comment T	vpe E	Comment Status D		Editorial

ugh 79.3.2.6f" should be "Insert 79.3.2.6a through 79.3.2.6g"

"79.3.2.6g" in the editing instruction.

Proposed Response	Response Status	w	

-							
CI 79	SC 7	9.3.2.6a	P 80	L 30	#	297	
Yseboodt, Lennart			Philips				
Comment	Type	TR	Comment Status X				LLDP

ctive while the other mode is active, the inactive PD requested power value shall be set to 0."

do ? The PD may wish to ask for power on an unpowered Mode...

SuggestedRemedy		
Strike sentence.		
Proposed Response	Response Status	w
TFTD		

way of saying that if a DS PD is powered over 2 pairs, then it shall powered pair.

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: Page, Line

Pa	80	
Li	30	

Page 16 of 71 4/28/2017 2:15:38 PM

<i>Cl</i> 79 <i>SC</i> 79.3.2.6a Yseboodt, Lennart	P 80 Philips	L 33	# 298	Cl 79 S Stewart, Heath	C 79.3.2.6b	P 81 Analog Devices	L 21	# 150
Comment Type ER	Comment Status D		LLDP	Comment Type	e ER	Comment Status D		LLDP
	ested power value Mode A a set to value 0, for Type 3 ar				viding powe he "PSE alle	to a Type 1, Type 2, and singl ocated power value Alternative		
SuggestedRemedy				SuggestedRem	nedy			
	hall set the PD requested p	ower value Mode	e A and Mode B fields	Change pla	ace to place	3		
to 0."				Proposed Resp	oonse	Response Status W		
Proposed Response PROPOSED ACCEPT.	Response Status W			PROPOSE	D ACCEPT	IN PRINCIPLE.		
C/ 79 SC 79.3.2.6a Yseboodt, Lennart	P 80 Philips	L 46	# [<u>299</u>]		viding powe the "PSE a	to a Type 1, Type 2, or single- located power value Alternative		
Comment Type TR	Comment Status D uested power value Mode A	A" and "Dual-sign		CI 79 S	C 79.3.2.6b	P 81	L 24	# 151
	e the maximum input avera			Stewart, Heath		Analog Devices	5	
may draw for the respec	ctive pairset."			Comment Type	e ER	Comment Status D		LLDF
This semi-requirement of single-signature.	does not belong here in Cla	use 79. Word in	similar manner as for	A PSE prov	viding powe	revious shall covers this alread to a Type 1, Type 2, and singl	le-signature T	Type 3 and Type 4 PD,
SuggestedRemedy				Alternative		ocated power value Alternative	A" and "PSE	allocated power value
	uested power value Mode A			SuggestedRen				
power value Mode B" ar intends to draw for the r	e the maximum input avera espective pairset."	ge power levels	(see 145.3.8.2) the PD	Delete	-			

Proposed Response Response Status W

PROPOSED ACCEPT.

The fields for PSE allocated power value Alternative A and PSE allocated power value Alternative B in Table 79–6b shall be set to value 0, for PSEs supporting single-signature PDs.

Proposed Response Response Status W

PROPOSED ACCEPT.

Pa 81 Li **24** LLDP

LLDP

CI 79	SC 79.3.2.6c	P 81	L 42	#	134	
Schindler, F	red	Seen Simply	, Cisco, T			
Comment T	vpe ER	Comment Status D				IIDP

Comment Type ER Comment Status D

The existing text.

"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 Laver 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 SC 79.3.2.6c.4 L5# 300 P 82 Yseboodt, Lennart Philips Comment Type T Comment Status D IIDP There is a stray reserved bit in the Power status field (bit 10).

SuggestedRemedy

Move the PSE power pairs field down by 1 bit to merge the reserved bits. Also, fix the incorrect bit header for "PSE power pairsx" for Value/Meaning.

Proposed Response Response Status W PROPOSED ACCEPT.

C/ 79	SC 79.3.2.6c	P 82	L 15	#	135
Schindler, F	Fred	Seen Simply,	Cisco, T		

Comment Type TR Comment Status X

LLDP

Changes made during D2.3 to address comment #406 change LLDP behavior requirements because Table 79-6c codes changed. Draft 2.4 does not appear to follow the #406 comment response. Comment #406 incorrectly raises concerns about Class 0 values. Class 0 may be reported by legacy Types. The changes made conflict with what text requirements on page 81 lines 42 and 49, for the Dual-signature-PD TLVs.

Page 81, Lines 42 and 49 both indicate,

"PSEs connected to a Type 1, Type 2 or single-signature PD set this field to value 0."

Requirements for the TLV covered by Table 79-6d result in system single and dual signature details so duplicating this in Table 79-6c is redundant. Table 79-6c provides class details for the system. The TLV processing code may also infer PD single and dual status from which field, covered by Table 79-6c, is made 0.

SuggestedRemedv

On page 82, L14 and L23 replace "111 = Single-signature PD" with "111 = Reserved/Ignore"

On page 82, L32 replace "111 = Dual-signature PD" with "111 = Reserved/Ignore"

Proposed Response Response Status W

TFTD

Pa 82 Li 15

Cl 79 SC 79.3.2.60 Yseboodt, Lennart	a P 83 Philips	L 30	# 301	<i>Cl</i> Table <i>SC</i> Table 79–7b Tuenge, Jason	P 86 Pacific North	L 52 west Nati	# 229
Comment Type T There are two stray bit	Comment Status D s in 79-6d.		LLDP	Comment Type E C Same comment for Current	<i>Comment Status</i> X as for Voltage above.		Pres: Yseboodt6
	reserved bits should be the hi such that the two reserved bit <i>Response Status</i> W			SuggestedRemedy Same change for Current a Proposed Response Re WFP TFTD	s for Voltage above. esponse Status W		
Cl 79 SC 79.3.2.6 ¢ Yseboodt, Lennart	g P 85 Philips	L 3	# 302	Cl Table SC Table 79–7b Tuenge, Jason	P 87 Pacific North	L 5	# 230
turn the PD back on af	Comment Status X lay field to the request power ter this delay.	down LLDP fiel	Pres: Yseboodt4 d that makes the PSE	Comment Type E C Same comment for Power a	Comment Status X	iwest nau	Pres: Yseboodt6
SuggestedRemedy Adopt yseboodt_04_05	517_powerdowndelay.pdf			SuggestedRemedy Same change for Power as	for Voltage above.		
Proposed Response WFP	Response Status W			Proposed Response Re WFP	esponse Status W		
TFTD				TFTD			
Cl Table SC Table 79 Tuenge, Jason	-7b P 86 Pacific North	L 50 vest Nati	# 228	<i>Cl</i> Table <i>SC</i> Table 79–7b Tuenge, Jason	P 87 Pacific North	L 8 west Nati	# 231
	Comment Status X regarding subclause 30.12.2 ch bit) should be 1 to 16.	2.1.18z4 above.	<i>Pres:</i> Yseboodt6 Also clarify that the	Comment Type E C See related comments rega integer (rather than each bit	<i>Comment Status</i> X arding subclause 30.12.2 t) should be 1 to 32.	2.1.18z7 above.	<i>Pres:</i> Yseboodt6 Also clarify that the
	racy" to "Voltage resolution."	Also change "th	ese bits" to "this	SuggestedRemedy Same change for Energy as	s for Voltage above.		
integer." Proposed Response WFP	Response Status W			Proposed Response Re WFP	esponse Status W		
TFTD				TFTD			

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: Page, Line Pa **87** Li **8**

C/ 145 SC 145 Yseboodt, Lennart	P 99 L 1 Philips	# 253	C/ 145 SC 145.1.3 Yseboodt, Lennart	P 101 Philips	L 21	# 255
Comment Type ER Comment S	Status D	Editorial	Comment Type ER	Comment Status D		Editori
We have 77 occurances of 'class eve	ent' and 7 occurances of 'class	sification event'.		be of a Type defined in Claus	e 33, Clause 145	, or a combination of
SuggestedRemedy			both."			
Replace 'classification event' by 'class	s event'.		•	to mean a device can be mult	iple Types, which	is not what is meant
Proposed Response Response S	Status W		here.			
PROPOSED ACCEPT.			SuggestedRemedy	a ha a f a Tana da fa a dia Ola.		445 10 000
	P 99 L 17	# 254	combination."	n be of a Type defined in Clau	use 33 or Clause	145 in any
Yseboodt, Lennart	Philips			and the set for the deal and set of the	1.)	
Comment Type E Comment S	Status D	Editorial		nulate as intended, please ch	eck)	
"This clause specifies Type 3 and Typ Type 2 devices."	pe 4 devices and their interac	tion with Type 1 and	Proposed Response PROPOSED ACCEP	Response Status W T.		
Could be read as though only the inte	eraction is specified.		C/ 145 SC 145.1.3 Walker, Dylan	<i>P</i> 101 Cisco	L 21	# 250
SuggestedRemedy						
"This clause specifies Type 3 and Typ and Type 2 devices."	pe 4 devices as well as their i	nteraction with Type 1		Comment Status X sists of a single PSE, a single	PD, and the link	Editor section connecting
Proposed Response Response S	Status W		them."			
PROPOSED ACCEPT.			This point needs to be	e further emphasized.		
C/ 145 SC 145.1	P 99 L 17	# 100	(D2.3 TODO - Comm	ents #271, #255, and #308)		
Jones, Chad	Cisco		SuggestedRemedy			
Comment Type ER Comment S	Status D	Editorial	Change:			
the text "This clause specifies Type 3 and Type 2 devices." makes it sound Type 1,2.			"A power system con- them."	sists of a single PSE, a single	PD, and the link	section connecting
SuggestedRemedy			To:	a consiste only of a single DO		ad the link continu
change to: "This clause specifies Typ	e 3 and Type 4 devices inclu	uding their interaction	Connecting them."	n consists only of a single PSI	E, a single PD, al	id the link section
with Type 1 and Type 2 devices."			Proposed Response	Response Status W		
Proposed Response Response S	Status W		TFTD			
PROPOSED ACCEPT IN PRINCIPLE	Ξ.					
OBE by 254						

Pa **101** Li **21**

C/ 145 SC 145.1.3 Thompson, Geoff	P 101 GraCaSI S.A.	L 31	# 203	C/ 145 Beia, Chris	SC 14 stian	45.1.3	P 102 ST Microelectro	L 22 nics	#	31
Comment Type ER	Comment Status X		Channel	Comment	Туре -	т	Comment Status D			Pres: Stover
SuggestedRemedy Proposed text for P80 Ω) Proposed Response TFTD I have accepted all of	Bbt/D2.4: Channel pairset maxim 2.3bt/D2.5: Link section pairset <i>Response Status</i> W the comments changing "chann ver, it is slightly odd to have diffed	maximum DC	tion" so I think this	negativ VPSE negativ They a The us <i>Suggested</i> Replac	ve conduct is voltage ve conduct are not the se of "pair <i>Remedy</i> ce the call s voltage	ctor of the at the ctor of the ctor of the ctor of the same rset" is name rset" is name liled out	PD PI measured between any p he corresponding pair. PSE PI measured between any he corresponding pair." definitions as used in Clause 3 more clear and coherent text with: PD PI measured between any p of the same pairset.	v positive cor 3.	iductor of	a pair and any
See 186 7 145 SC 145.1.3 ohnson, Peter	P 102 Sifos Technolog	L 13	# 86	any ne Proposed F	gative co	onductor	PSE PI measured between any of the same pairset." Response Status W	v positive cor	ductor of	a pairset and
Comment Type E	Comment Status D	y	Editorial	WFP						
	pported value of RCh depends 5–1." is not really true any more			TFTD C/ 145	SC 14	45.1.3	P 102	L 22	#	158
SuggestedRemedy				Stover, Dav	vid		Analog Devices			
Replace with "RCh is	defined in Table 145-1."			Comment		TR	Comment Status X			Pres: Stover
Proposed Response PROPOSED ACCEP	Response Status W T.			the XX Suggested	X PI' from	n our dr		include 2-pai	r and 4-pa	ir. Remove 'at
				Proposed F		•	Response Status W			

WFP

TFTD

Pa **102** Li **22**

C/ 145 SC 145.1.3.2 P 102 L 42 # 204 Thompson, Geoff GraCaSI S.A. GraCaSI S.A. <t< th=""><th>C/ 145 SC 145.1.3.2 P 102 L 47 # 206 Thompson, Geoff GraCaSI S.A.</th></t<>	C/ 145 SC 145.1.3.2 P 102 L 47 # 206 Thompson, Geoff GraCaSI S.A.
Comment Type ER Comment Status D Channel	Comment Type ER Comment Status D Chann
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	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.
Proposed Response Response Status W	SuggestedRemedy
PROPOSED ACCEPT IN PRINCIPLE. 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	Proposed text for P802.3bt/D2.5: Link sections for all Types shall comply with the resistance unbalance requirements for twisted-pair cabling as specified in ISO/IEC 11801:2002 and ANSI/TIA-568-C.2. Refer to Annex 33A for more information including the requirements for 4-pair operation pair-to-pair resistance unbalance.
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.	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
C/ 145 SC 145.1.3.2 P 102 L 44 # 205 hompson, Geoff GraCaSI S.A.	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
Comment Type ER Comment Status D Channel	Annex 33A for more information including the requirements for pair-to-pair resistance
Current text in P802.3bt/D2.4: Within Clause 145 and its annexes, "channel", as defined in 1.4.134, refers to the electrical path on which the power is transferred, i.e., the link section.	unbalance when operating over 4 pairs.
1.4.134, refers to the electrical path on which the power is transferred, i.e., the link section. SuggestedRemedy	TFTD, check annex reference
 1.4.134, refers to the electrical path on which the power is transferred, i.e., the link section. SuggestedRemedy 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 	
1.4.134, refers to the electrical path on which the power is transferred, i.e., the link section. SuggestedRemedy 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).	TFTD, check annex reference C/ 145 SC 145.2.1 P 103 L 20 # 101
 1.4.134, refers to the electrical path on which the power is transferred, i.e., the link section. SuggestedRemedy 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 	TFTD, check annex reference C/ 145 SC 145.2.1 P 103 L 20 # 101 Jones, Chad Cisco Cisco
1.4.134, refers to the electrical path on which the power is transferred, i.e., the link section. SuggestedRemedy 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). Proposed Response Response Status	TFTD, check annex reference Cl 145 SC 145.2.1 P 103 L 20 # 101 Jones, Chad Cisco Comment Type ER Comment Status D Editori the sentence: "A PSEs can be categorized as either a Type 1, Type 2, Type 3 or Type 4

Pa **103** Li **20**

C/ 145 SC 145.2.1	P 103	L 20	# 87	C/ 145 SC 145.2.1	P 103	L 24	# 152
Johnson, Peter	Sifos Technolo	ogies		Stewart, Heath	Analog Devices		
Comment Type E	Comment Status D		Editorial	Comment Type ER	Comment Status D		Editoria
"A PSEs can" - typo				The referenced sente	nces use of "then" does not mak	e sense.	
SuggestedRemedy				SuggestedRemedy			
"A PSE can"				Replace			
Proposed Response	Response Status W				3, and Type 4 PSEs interoperate o power limitations. See 145.2.7.		
PROPOSED ACCEPT	IN PRINCIPLE.			reduced power mode	•	. The FD may	
OBE by 101				With Type 1 Type 2 Type	3, and Type 4 PSEs interoperate	a with Type 1	Type 2 Type 2 and
					o power limitations. See 145.2.7.		
C/ 145 SC 145.2.1	P 103	L 23	# 256	the PD may then ope	rate in a reduced power mode.		
Yseboodt, Lennart	Philips			Proposed Response	Response Status W		
Comment Type ER	Comment Status D		Editorial	PROPOSED ACCEP	T IN PRINCIPLE.		
Type 4 PDs, subject to	3, and Type 4 PSEs interoper power limitations. See 145.2			OBE by 256			
reduced power mode."				C/ 145 SC 145.2.1	P 103	L 24	# 88
SuggestedRemedy				Johnson, Peter	Sifos Technolog	jies	
Remove the last two se	entences.			Comment Type E	Comment Status D		Editoria
unneeded.	not wrong, they raise questior	·		51	D may then operate in a reduced	power mode."	would make more
	n not answered unless we rea			SuggestedRemedy			
demotion stuff for the c	that PSEs and PDs will interce classification section.	iperate. Let s ie	ave the power		g upon the PSE capability, a PD	may need to o	perate in a reduced
Proposed Response	Response Status W			power mode."			
PROPOSED ACCEPT				Proposed Response PROPOSED ACCEP	Response Status W T IN PRINCIPLE.		
				OBE by 256			

Pa **103** Li **24**

C/ 145 SC 145.2.1 Stewart, Heath	P 103 Analog Device	L 26 es	# 153	Cl 145 SC 145.2.3 Yseboodt, Lennart	P 108 Philips	L 1	# 258
Comment Type ER Need to add Type 3 an	Comment Status D nd Type 4 for clarity		Editorial	Comment Type E Co Figure 145-8 is clipped at the	mment Status D		Editoria
With Table 145–2 summariz	zes the supported parameters zes the supported parameters		Type 4 PSEs.	SuggestedRemedy Fix. Proposed Response Res PROPOSED ACCEPT.	sponse Status W		
Proposed Response PROPOSED ACCEPT	Response Status W			Cl 145 SC 145 Yseboodt, Lennart	P 112 Philips	L 1	# 260
Cl 145 SC 145.2.1 Yseboodt, Lennart Comment Type E Missing space before ' SuggestedRemedy Fix. Proposed Response PROPOSED ACCEPT	P 103 Philips Comment Status D and' in footnote a of Table 14 Response Status W	<i>L</i> 41 5-2.	# 257 Editorial	The following redundant refer - page 112, subclause 145.2. - page 122, subclause 145.2. - page 176, subclause 145.3. - page 271, subclause 145B. SuggestedRemedy Remove "Type 3 and Type 4"	5.1.1 title "Type 3 and 5.5 title "Type 3 and T 3.6 title "Type 3 and Typ 1 title "Type 3 and Typ sponse Status W	Type 4 specific ype 4 timers" ype 4 single-sigi	overview and timing" nature functions"
C/ 145 SC 145.2.3 Yseboodt, Lennart	P 108 Philips	L 1	# 259	Delete Title of 145.2.5.1.1 an	-	tion to end of 14	45.2.5.1.
Comment Type ER Editor blindly executed and up: "Non-PSE Powering Ed SuggestedRemedy	Comment Status D I comment #272 which product quipement".	ced the following	<i>Editorial</i> g gem in Figures 145-8	Remove "Type 3 and Type 4' - page 122, subclause 145.2. - page 176, subclause 145.3. - page 271, subclause 145B.	5.5 title "Type 3 and T 3.6 title "Type 3 and T	ype 4 single-sigi	
Change all occurences Proposed Response PROPOSED ACCEPT	s to "Non-powering equipment Response Status W	t".					

Pa **112** Li **1**

C/ 145								
	SC 145.2.5.1.1	P 112	L 37	# 233	C/ 145 SC 145.2.	5.1.1 <i>P</i> 112	L 51	# 136
Walker, Dyla	n	Cisco			Schindler, Fred	Seen Simp	ly, Cisco, T	
Comment Ty	vpe TR	Comment Status D		PSE SD	Comment Type ER	Comment Status D		PSE SD
		n TEST_MODE. Also, the s dability. The sentences befo			The existing text, "Monitoring of MPS is handled by Figure	is handled by Figure 145–17 ; 145–19."	and Figure 145–18	8. Monitoring of inrush
(D2.3 TC	DDO - Comment	#247)			uses the word "hand	lled" and should be improved.		
SuggestedRe	emedy				SuggestedRemedy			
during 4- reversed other sta	tate diagram, Alt -pair operation. I I as long as the r	ternative A and Alternative In any implementation, the l roles are established in IDL diagram, the Alternatives ar re."	behaviors of the . E and shall be m	Alternatives may be naintained in every	Replace the called-o "The state diagram i in Figure 145–19 mo <i>Proposed Response</i> PROPOSED ACCE	n Figure 145–17 and Figure 1 onitors inrush." <i>Response Status</i> W	145–18 monitors N	IPS. The state diagram
To:					OBE by 304			
impleme and be m	ntation, the roles	ich Alternative serves a dist s of the Alternatives shall b ery other state. In the state	e established in I diagram, the role	IDLE or TEST_MODE	C/ 145 SC 145.2. Zimmerman, George	5.1.1 P 112 CME Const	L 51 ulting/Aqua	# 304
	-	native and Secondary Alter	native."		Comment Type E	Comment Status D		PSE SD
Proposed Re PROPOS	esponse SED ACCEPT.	Response Status W				is handled by Figure… Monito The figures describe state di		andled by" nothing is
		D440	L 41	# 234	SuggestedRemedy			
C/ 145	SC 145.2.5.1.1	P 112	- • •					
-	SC 145.2.5.1.1 in	P 112 Cisco				by" to "is described by the sta te diagram in" (for inrush)	ate diagrams in" (f	or MPS) and "is
note to p	n <i>pe</i> ER nother comment provide a hint to t		role reversal is pr			te diagram in" (for inrush) Response Status W	ate diagrams in" (f	or MPS) and "is
Walker, Dyla Comment Ty Since an note to p (without g	n <i>pe</i> ER nother comment provide a hint to t	Cisco Comment Status D seeks to remove the explic the reader that Alternative r ory details) seems appropria	role reversal is pr	avior from the SD, a	described by the sta Proposed Response	te diagram in" (for inrush) Response Status W	ate diagrams in" (f	or MPS) and "is
Walker, Dyla Comment Ty, Since an note to p (without g	n <i>type</i> ER nother comment provide a hint to the going into the go DDO - Comment	Cisco Comment Status D seeks to remove the explic the reader that Alternative r ory details) seems appropria	role reversal is pr	avior from the SD, a	described by the sta Proposed Response	te diagram in" (for inrush) Response Status W	ate diagrams in" (f	or MPS) and "is
Walker, Dyla Comment Ty, Since an note to p (without g (D2.3 TC SuggestedRe Insert: "NOTE—	n <i>type</i> ER nother comment provide a hint to t going into the go DDO - Comment <i>emedy</i> –During 4-pair of	Cisco Comment Status D seeks to remove the explic the reader that Alternative r ory details) seems appropria	role reversal is pr ate.	avior from the SD, a robably a good idea	described by the sta Proposed Response	te diagram in" (for inrush) Response Status W	ate diagrams in" (f	or MPS) and "is
Walker, Dyla Comment Ty, Since an note to p (without g (D2.3 TC SuggestedRe Insert: "NOTE—	n pe ER nother comment provide a hint to t going into the go DDO - Comment emedy -During 4-pair op rnative B in IDLE	Cisco Comment Status D seeks to remove the explic the reader that Alternative r bry details) seems appropria #247) peration, it may be necessa	role reversal is pr ate.	avior from the SD, a robably a good idea	described by the sta Proposed Response	te diagram in" (for inrush) Response Status W	ate diagrams in" (f	or MPS) and "is

Pa **112** Li **51**

C/ 145 SC 145.2.5.4 P 114 L 20 # 235 Walker, Dylan Cisco	C/ 145 SC 145.2.5.6 P 125 L 27 # 251 Walker, Dylan Cisco
Comment Type TR Comment Status D PSE SD Stating that the other Alternative is assigned the Secondary Alternative role is redundant for 4-pair operation and misleading for 2-pair operation, where the only active Alternative is still granted the role of Primary despite a non-existent Secondary. PSE SD	Comment Type ER Comment Status D Editorial Function "do_cxn_chk" is not alphabetized correctly. SuggestedRemedy Please relocate to page 127 before function "do_detect_pri". Editorial
(D2.3 TODO - Comment #247) SuggestedRemedy	Proposed Response Response Status W PROPOSED ACCEPT.
Change: "A variable used to select which Alternative assumes the role of Primary in the state diagram." "a: Alternative A is assigned Primary, and Alternative B is assigned Secondary."	Cl 145 SC 145.2.5.6 P 125 L 42 # 137 Schindler, Fred Seen Simply, Cisco, T 137
"b: Alternative B is assigned Primary, and Alternative A is assigned Secondary." To:	Comment Type ER Comment Status D Editoria Fix typo "classtiming"
 "A variable used to select which Alternative assumes the role of Primary Alternative in the state diagram." "a: Alternative A is assigned Primary Alternative. When operating over 4 pairs, Alternative B is assigned Secondary Alternative." "b: Alternative B is assigned Primary Alternative. When operating over 4 pairs, Alternative A is assigned Secondary Alternative." 	SuggestedRemedy Use "class timing". Proposed Response Response Status W PROPOSED ACCEPT.
Proposed Response Response Status W PROPOSED ACCEPT.	C/ 145 SC 145.2.5.6 P 125 L 43 # 161 Stover, David Analog Devices Analog
Cl 145 SC 145.2.5.4 P 119 L 4 # 236 Walker, Dylan Cisco C	Comment Type ER Comment Status D Editoria "The tlce timer" "to allow abbreviated classtiming duration." Timer name broken across lines; missing a space between words.
Comment Type TR Comment Status D PSE SD Via other comments, alt_pri assignment is clarified/corrected and the ping pong behavior is covered by a note, so explicitly showing alternation is no longer required. PSE SD (D2.3 TODO - Comment #247) PSE SD PSE SD	SuggestedRemedy Join "tlce_timer" on a single line. Add a space between "classtiming". Proposed Response Response Status W PROPOSED ACCEPT.
SuggestedRemedy Delete "pingpong_en" variable. Proposed Response Response Status W PROPOSED ACCEPT.	

Pa **125** Li **43**

C/ 145 SC 145.2.5.6 P 126 L 23	# 162		SC 145.2.5.7	P 129	L 13	# 237
Stover, David Analog Devices		Walker, Dylar	า	Cisco		
Comment Type ER Comment Status D	Editorial	Comment Ty	be TR	Comment Status D		PSE SI
"When a PD requests a higher class than a PSE can support". I beliew where Class needs proper case.	ve this is an instance			t_pri assignment is clarif xplicitly showing alternation of the second structure the second		ne ping pong behavior is uired.
SuggestedRemedy		(D2 3 TO	DO - Commer	of #247)		
"When a PD requests a higher Class than PSE can support." Fix here	e and on P127, L2	SuggestedRe		((# 2 +1)		
(pse_req_pwr_sec).		In IDLE:	aneuy			
Proposed Response Response Status W		III IDEE.				
PROPOSED ACCEPT.		Change:				
C/ 145 SC 145.2.5.6 P 126 L 33	# 163		ong_en) THEN =a) THEN	N		
Stover, David Analog Devices		alt_pri <=				
Comment Type ER Comment Status D	Editorial	ELSE alt_pri <=	.0			
"pse allocated pwr pri: this variable" Per convention, proper case		END	-a			
	U					
SuggestedRemedy		END"				
SuggestedRemedy "pse_allocated_pwr_pri: This variable" Fix here and on P127, L12 (pse_allocated_pwr_sec); P128, L7 (do_update_pse_allocated_pwr); (do_update_pse_allocated_pwr_pri); P128, L32 (do_update_pse_allocated_pse_	P128, L21 cated_pwr_sec).	To:	= user defined			
"pse_allocated_pwr_pri: This variable" Fix here and on P127, L12 (pse_allocated_pwr_sec); P128, L7 (do_update_pse_allocated_pwr); (do_update_pse_allocated_pwr_pri); P128, L32 (do_update_pse_alloc	P128, L21 cated_pwr_sec).	To: "alt_pri ≺ END" Proposed Re		Response Status W		
"pse_allocated_pwr_pri: This variable" Fix here and on P127, L12 (pse_allocated_pwr_sec); P128, L7 (do_update_pse_allocated_pwr); (do_update_pse_allocated_pwr_pri); P128, L32 (do_update_pse_alloc Proposed Response Response Status W	P128, L21 cated_pwr_sec).	To: "alt_pri < END" Proposed Re PROPOS CI 145	sponse SED ACCEPT. SC 145.2.5.7	Response Status W	L 31	# <u>261</u>
"pse_allocated_pwr_pri: This variable" Fix here and on P127, L12 (pse_allocated_pwr_sec); P128, L7 (do_update_pse_allocated_pwr); (do_update_pse_allocated_pwr_pri); P128, L32 (do_update_pse_alloc Proposed Response Response Status W	P128, L21 cated_pwr_sec).	To: "alt_pri < END" Proposed Re PROPOS	sponse SED ACCEPT. SC 145.2.5.7	Response Status W	L 31	# <u>261</u>
"pse_allocated_pwr_pri: This variable" Fix here and on P127, L12 (pse_allocated_pwr_sec); P128, L7 (do_update_pse_allocated_pwr); (do_update_pse_allocated_pwr_pri); P128, L32 (do_update_pse_alloc Proposed Response Response Status W	P128, L21 cated_pwr_sec).	To: "alt_pri < END" Proposed Re PROPOS CI 145 Yseboodt, Le Comment Tyj	sponse SED ACCEPT. SC 145.2.5.7 nnart pe T	Response Status W	-	PSE SI
"pse_allocated_pwr_pri: This variable" Fix here and on P127, L12 (pse_allocated_pwr_sec); P128, L7 (do_update_pse_allocated_pwr); (do_update_pse_allocated_pwr_pri); P128, L32 (do_update_pse_alloc Proposed Response Response Status W	P128, L21 cated_pwr_sec).	To: "alt_pri < END" Proposed Re PROPOS C/ 145 Yseboodt, Le Comment Ty/ See: http This was	sponse SED ACCEPT. SC 145.2.5.7 nnart pe T ://www.ieee80 a late submise	Response Status W P 129 Philips Comment Status D	vseboodt_09_0317_	PSE SI
"pse_allocated_pwr_pri: This variable" Fix here and on P127, L12 (pse_allocated_pwr_sec); P128, L7 (do_update_pse_allocated_pwr); (do_update_pse_allocated_pwr_pri); P128, L32 (do_update_pse_alloc Proposed Response Response Status W	P128, L21 cated_pwr_sec).	To: "alt_pri < END" Proposed Re PROPOS C/ 145 Yseboodt, Le Comment Ty/ See: http This was	sponse SED ACCEPT. SC 145.2.5.7 nnart De T ://www.ieee80: a late submiss orget to adopt i	Response Status W P 129 Philips Comment Status D 2.org/3/bt/public/mar17/y sion in March, which was	vseboodt_09_0317_	PSE SI
"pse_allocated_pwr_pri: This variable" Fix here and on P127, L12 (pse_allocated_pwr_sec); P128, L7 (do_update_pse_allocated_pwr); (do_update_pse_allocated_pwr_pri); P128, L32 (do_update_pse_alloc Proposed Response Response Status W	P128, L21 cated_pwr_sec).	To: "alt_pri ≺ END" Proposed Re PROPOS C/ 145 Yseboodt, Le Comment Ty/ See: http This was We did fo SuggestedRe	sponse SED ACCEPT. SC 145.2.5.7 nnart be T ://www.ieee80 a late submiss orget to adopt i emedy	Response Status W P 129 Philips Comment Status D 2.org/3/bt/public/mar17/y sion in March, which was	rseboodt_09_0317_ presented. into the draft.	PSE Si startdetectfix.pdf
"pse_allocated_pwr_pri: This variable" Fix here and on P127, L12 (pse_allocated_pwr_sec); P128, L7 (do_update_pse_allocated_pwr); (do_update_pse_allocated_pwr_pri); P128, L32 (do_update_pse_alloc Proposed Response Response Status W	P128, L21 cated_pwr_sec).	To: "alt_pri ≺ END" Proposed Re PROPOS C/ 145 Yseboodt, Le Comment Ty/ See: http This was We did fo SuggestedRe	sponse SED ACCEPT. SC 145.2.5.7 nnart be T ://www.ieee80: a late submiss orget to adopt i emedy p://www.ieee80	Response Status W P 129 Philips Comment Status D 2.org/3/bt/public/mar17/y sion in March, which was t, as such it didn`t make	rseboodt_09_0317_ presented. into the draft.	PSE Si startdetectfix.pdf

Pa **129** Li **31**

C/ 145 SC 145.2.5.7 Walker, Dylan	P 130 Cisco	L 6	# 238	<i>Cl</i> 145 Darshan, Ya	SC 145.2.5.7 air	P 132 Mirosemi	L 33	# 43
Comment Type TR	Comment Status D		PSE SD	Comment T	ype TR	Comment Status X		Pres: Darshan10
alt_pri should be user del (D2.3 TODO - Comment SuggestedRemedy In TEST_MODE: Change: "alt_pri <= a"	_			yseboo (Option Respor availabl Suggestedf	dt_0117.pdf pag 1 and 2) and up ise: Add TODO e power = 4.	ment: On January 2017 r e 3 we will use optional va date the state machine a (Yair): Create proposal for 7.pdf	ariables to allow 2 cordingly to add t	fingers and 3 fingers o PSE flexibility.
To: "alt_pri <= user defined"				Proposed R WFP TFTD	Pesponse	Response Status W		
PROPOSED ACCEPT.	Response Status W			C/ 145 Yseboodt, L	SC 145.2.5.7 .ennart	P 132 Philips	L 43	# 262
"variable <operator>X" e.g SuggestedRemedy Adopt request in the com Proposed Response PROPOSED REJECT.</operator>	Response Status W	arantesis e.g. "(pd_class_sig=4)".	Parens Suggestedf Change tcle3_tii (pse_al (pse_au (pse_au Proposed F	CLASS_EV3' to ' are in the wrong Remedy to: mer_done * ternative = both) ss_sig != 4) * vail_pwr >= pd_ vail_pwr > 5))	*	orrectly implemen	PSE SD ted from baseline.
				Suggested	ype ER located_pwr" as Remedy width of state bo	P 133 Analog Dev Comment Status D signment is split over 2 lin ox to fit assignment on a s Response Status W	es in state MARK	# <u>164</u> <i>Editorial</i> _EV_LAST.
TYPE: TR/technical required				PROPC	Response DSED ACCEPT.	Response Status W		

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Pa 133
 Page 28 of 71

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 Li
 34
 4/28/2017 2:15:39 PM

 SORT ORDER: Page, Line
 Page 28 of 71
 Page 28 of 71
 2000
 2000
 2000

C/ 145 SC 145.2.5.7 P 135 L 42 # 165	C/ 145 SC 145.2.6 P 145 L 33 # 111
Stover, David Analog Devices	Lukacs, Miklos Silicon Labs
Comment Type TR Comment Status X PSE S	SD Comment Type ER Comment Status D Editor
Change against D2.3 removed clearing of "pd_autoclass" from "IDLE_ACS". Now, Figure 145-14 is broken such that DLL-based Autoclass requests will never be serviced (IDLE_ACS to MEASURE_ACS is gated by "!pd_autoclass").	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	SuggestedRemedy
Replace transition logic from IDLE_ACS to MEASURE_ACS with "MirroredPDAutoclassRequest".	Change the text to: "A PSE detecting an invalid PD signature on either Alternative may perform detection on
Proposed Response Response Status W TFTD	the other Alternative, and if the PD signature is valid then the PSE may perform classification on that pairset."
	Proposed Response Response Status W
C/ 145 SC 145.2.5.7 P 137 L 28 # 92	PROPOSED REJECT.
Johnson, Peter Sifos Technologies	Out of Scope.
Comment Type E Comment Status D PSES	SD
Typo - State variable pse_avail_pwr_pri_pri has extra "_pri"	Walker, Dylan Cisco
SuggestedRemedy	
Remove second "_pri"	Comment Type TR Comment Status D Connection Check need to be clarified since the function can
Proposed Response Response Status W PROPOSED ACCEPT.	return invalid in a general sense.
	(D2.3 TODO - Comments #271, #255, and #308)
C/ 145 SC 145.2.5.7 P 138 L 17 # 44	SuggestedRemedy
Darshan, Yair Mirosemi	Change:
Comment Type TR Comment Status X Pres: Darshan	"PSEs that will deliver power on both pairsets shall complete a connection check prior to the classification of a PD as specified in 145.2.7 to determine if both pairsets are
TODO #253 D2.3 PSE Class SD for dual-signature PDs is inconsistent with recent developments in single-signature Class SD. Particularly, state CLASS_4PID4 is inconsistent with the notion that pd_req_pwr and therefore pd_cls_4pid are known after 3	connected to a single-signature PD configuration, a dual-signature PD configuration, or both pairsets are invalid."
(not 4) class events. Also, the "pse_allocated_pwr" paradigm is not implemented for PSE dual-signature Class SD.	To:
0	"PSEs that will deliver power on both pairsets shall complete a connection check prior to
SuggestedRemedy Adopt darshan_11_0517.pdf if ready.	the classification of a PD as specified in 145.2.7 to determine if the PSE is connected to a single-signature PD configuration, a dual-signature PD configuration, or neither."
If not ready, keep in TODO.	Proposed Response Response Status W
Proposed Response Response Status W	PROPOSED ACCEPT.
WFP	
TETO	
TFTD	

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: Page, Line

Pa **145** Li **37** Page 29 of 71 4/28/2017 2:15:39 PM

C/ 145 SC 145				
0 140	P 146	L 8	# 29	C/ 145 SC 145.2.7 P 150 L 8 # 263
Anslow, Pete	Ciena			Wendt, Matthias Philips Lighting
Comment Type E	Comment Status D		Editori	Comment Type ER Comment Status D PSE P
Several table in Claus contain an em-dash	se 145 have blank cells in the i	min or max colu	ımns, which should	original text: "The minimum power output a PSE supports for the PD's assigned Class, when powering a single-signature PD, or supplying power in 2-pair mode, is defined by
SuggestedRemedy				Equation (145-2)."
In particular, Tables 1	nave a em-dash in currently bla 145-7, 145-8, 145-9, 145-10, 14			Inconsistent with the same sentence for dual-signature below, which doesn`t mention the 'assigned class' tidbit.
145-31, 145-32				SuggestedRemedy
Proposed Response PROPOSED REJECT	Response Status W T.			Change to: "The minimum power output a PSE supports when powering a single-signature PD, or supplying power in 2-pair mode, is defined by Equation (145-2)."
	es is intentional. The em-dash lack of the em-dash conveys			Append sentence to the previous paragraph (line 6):
C/ 145 SC 145.2.6.	.5 P 148	L 42	# 305	"The minimum power output a PSE supports depends on the assigned Class."
Zimmerman, George	CME Consult	ing/Aqua		Finally, change the sentence on line 24 to match:
Comment Type E	Comment Status D		Editori	"The minimum output power a PSE supports on a pairset when powering a dual-signatu PD is defined by Equation (145-3)."
#ABSOLUTE "NOTE- from Clause 33, there	—Detection and rejection crite fore ensuring interoperability v ot guarantee interoperability - v perability.	with Clause 33 of	devices (see also	Proposed Response Response Status W PROPOSED ACCEPT.
#ABSOLUTE "NOTE- from Clause 33, there 145.2.6.4)." we cannot the purpose of interop	efore ensuring interoperability v ot guarantee interoperability - v	with Clause 33 of	devices (see also	Proposed Response Response Status W
#ABSOLUTE "NOTE- from Clause 33, there 145.2.6.4)." we cannot the purpose of interop SuggestedRemedy	efore ensuring interoperability v ot guarantee interoperability - v perability.	with Clause 33 o we strive for it, a	devices (see also	Proposed Response Response Status W PROPOSED ACCEPT.
#ABSOLUTE "NOTE- from Clause 33, there 145.2.6.4)." we cannot the purpose of interop SuggestedRemedy Change ", therefore e	efore ensuring interoperability v ot guarantee interoperability - v perability. Insuring" to "for the purpose of	with Clause 33 o we strive for it, a	devices (see also	Proposed Response Response Status W PROPOSED ACCEPT. Cl 145 SC 145.2.7 P 150 L 19 # 306
#ABSOLUTE "NOTE- from Clause 33, there 145.2.6.4)." we cannot the purpose of interop SuggestedRemedy Change ", therefore e	efore ensuring interoperability v ot guarantee interoperability - v perability. ensuring" to "for the purpose of <i>Response Status</i> W	with Clause 33 o we strive for it, a	devices (see also	Proposed Response Response Status W PROPOSED ACCEPT. P150 L 19 # 306 C/ 145 SC 145.2.7 P 150 L 19 # 306 Zimmerman, George CME Consulting/Aqua Edi Comment Type T Comment Status D Edi "on the pairset" is incorrect, VPSE is applied "across the pairset" - also on p 150 L34, P L19, P161 L6, P161 L21, and P169 L18 (note - this phrase is new text in this context in
#ABSOLUTE "NOTE- from Clause 33, there 145.2.6.4)." we cannot the purpose of interop SuggestedRemedy Change ", therefore e Proposed Response PROPOSED ACCEP	efore ensuring interoperability v ot guarantee interoperability - v perability. ensuring" to "for the purpose of <i>Response Status</i> W	with Clause 33 (we strive for it, a f"	devices (see also	Proposed Response Response Status W PROPOSED ACCEPT. P150 L 19 # 306 Cl 145 SC 145.2.7 P 150 L 19 # 306 Zimmerman, George CME Consulting/Aqua Comment Type T Comment Status D Edi "on the pairset" is incorrect, VPSE is applied "across the pairset" - also on p 150 L34, P L19, P161 L6, P161 L21, and P169 L18 (note - this phrase is new text in this context in places) Edi
#ABSOLUTE "NOTE- from Clause 33, there 145.2.6.4)." we cannot the purpose of interop SuggestedRemedy Change ", therefore e Proposed Response PROPOSED ACCEP	efore ensuring interoperability v of guarantee interoperability - v perability. Insuring" to "for the purpose of <i>Response Status</i> W T IN PRINCIPLE.	with Clause 33 (we strive for it, a f"	devices (see also	Proposed Response Response Status W PROPOSED ACCEPT. P150 L 19 # 306 Cl 145 SC 145.2.7 P 150 L 19 # 306 Zimmerman, George CME Consulting/Aqua Comment Type T Comment Status D Edi "on the pairset" is incorrect, VPSE is applied "across the pairset" - also on p 150 L34, P-L19, P161 L6, P161 L21, and P169 L18 (note - this phrase is new text in this context in places) SuggestedRemedy
#ABSOLUTE "NOTE- from Clause 33, there 145.2.6.4)." we cannot the purpose of interop SuggestedRemedy Change ", therefore e Proposed Response PROPOSED ACCEP	efore ensuring interoperability v of guarantee interoperability - v perability. Insuring" to "for the purpose of <i>Response Status</i> W T IN PRINCIPLE.	with Clause 33 (we strive for it, a f"	devices (see also	Proposed Response Response Status W PROPOSED ACCEPT. P150 L 19 # 306 Cl 145 SC 145.2.7 P 150 L 19 # 306 Zimmerman, George CME Consulting/Aqua Comment Type T Comment Status D Edi "on the pairset" is incorrect, VPSE is applied "across the pairset" - also on p 150 L34, P L19, P161 L6, P161 L21, and P169 L18 (note - this phrase is new text in this context in places) Edi

Pa **150** Li **19**

	°150	L 20	# 207	C/ 145	SC 145.2	2.7		P 150	L 37	# 37
Thompson, Geoff Gra	CaSI S.A.			Beia, Christi	an		:	ST Microelec	tronics	
Comment Type ER Comment Statu	is D		Channel	Comment Ty	ype T		Comment St	tatus X		PSE Pou
Current text in P802.3bt/D2.4: There are 4 20, 36, 46, 48.	I uses of the t	term "channel	I" in the following lines:		signed Clas 45-25 refer		ot defined Ds requested	Class		
SuggestedRemedy				SuggestedR	Remedy					
Proposed text for P802.3bt/D2.5: Replace	each instanc	ce of "channel"	" with "link section".	Change						
Proposed Response Response Statu	s W			"PClass Class, a	_	the ma	aximum powe	r at the PD P	l for a pairset pe	er the PDs assigned
PROPOSED ACCEPT IN PRINCIPLE.				,	in Table 14	15–25"				
REF 204				To:		the m			l for o poiroot p	ar the DDe requested
				Class, a	_	une ma	aximum powe		n or a pairset pe	er the PDs requested
	°150	L 21	# 36	defined	in Table 14	15–25"				
Beia, Christian ST	Microelectron	nics		Proposed Re	esponse		Response St	atus M		
					coponico		Response St			
Comment Type T Comment Statu			PSE Power	TFTD	00001100		Response of			
Comment Type T Comment Statu PDs assigned Class is not defined	is X		PSE Power	TFTD			·		antion assigned	l class However the
Comment Type T Comment Statu PDs assigned Class is not defined Table 145-24 refers to PDs requested Cla	is X		PSE Power	TFTD Christiar	n is right th	at the	, table referenc	ed doesn't m		l class. However, the gned class of the PD.
Comment Type T Comment Statu PDs assigned Class is not defined Table 145-24 refers to PDs requested Cla SuggestedRemedy	is X		PSE Power	TFTD Christiar PSE nee	n is right th	at the	, table referenc	ed doesn't m		
Comment Type T Comment Statu PDs assigned Class is not defined Table 145-24 refers to PDs requested Cla SuggestedRemedy Change	us X ass	ne PDs assign		TFTD Christiar	n is right th	at the	, table referenc	ed doesn't m		
Comment Type T Comment Statu PDs assigned Class is not defined Table 145-24 refers to PDs requested Cla SuggestedRemedy Change "PClass_PD is the maximum power at the Table 145–24)"	us X ass	ne PDs assign		TFTD Christiar PSE nee	n is right th	at the ulate F	, table referenc	ed doesn't m		
Comment Type T Comment Statu PDs assigned Class is not defined Table 145-24 refers to PDs requested Cla SuggestedRemedy Change "PClass_PD is the maximum power at the Table 145–24)" To:	ass ∋PDPIperth	Ū	ed Class, as defined in	TFTD Christiar PSE nee See 36	n is right th eds to calco SC 145.2	at the ulate F	, table reference Pclass based	ed doesn't m on the Pclass	s_PD of the assi	gned class of the PD.
Comment Type T Comment Statu PDs assigned Class is not defined Table 145-24 refers to PDs requested Cla SuggestedRemedy Change "PClass_PD is the maximum power at the Table 145–24)"	ass ∋PDPIperth	Ū	ed Class, as defined in	TFTD Christiar PSE ner See 36 C/ 145	n is right th eds to calco SC 145.2	at the ulate F	, table reference Pclass based	ed doesn't m on the Pclass <i>P</i> 150 Cisco	s_PD of the assi	gned class of the PD.
Comment Type T Comment Statu PDs assigned Class is not defined Table 145-24 refers to PDs requested Class SuggestedRemedy Change "PClass_PD is the maximum power at the Table 145–24)" To: "PClass_PD is the maximum power at the	ass ∋PDPIperth	Ū	ed Class, as defined in	TFTD Christiar PSE nec See 36 C/ 145 Jones, Chac Comment Ty The text	n is right th eds to calco SC 145.2 ype E t "If the PD	at the ulate F 2.7 conne	table reference Polass based Comment Si Poted to the PS	ed doesn't m on the Pclass P 150 Cisco tatus D SE performs	s_PD of the assi <i>L</i> 43 Autoclass (see 1	# 103 <i>H</i> 103 <i>Edito</i>
Comment Type T Comment Statu PDs assigned Class is not defined Table 145-24 refers to PDs requested Class SuggestedRemedy Change "PClass_PD is the maximum power at the Table 145–24)" To: "PClass_PD is the maximum power at the in	ass ≥ PD PI per th ≥ PD PI per th	Ū	ed Class, as defined in	TFTD Christiar PSE nea See 36 C/ 145 Jones, Chao Comment Ty The text 145.3.6.	n is right th eds to calco SC 145.2 ype E t "If the PD 2), the PSF	at the ulate F 2.7 conne E may	table reference Pclass based Comment St ected to the Ps set its minimum	P 150 <i>P</i> 150 Cisco <i>tatus</i> D SE performs um supported	L 43 L utoclass (see double to be the second	gned class of the PD. # <u>103</u> <i>Edito</i>
Comment Type T Comment Statu PDs assigned Class is not defined Table 145-24 refers to PDs requested Class SuggestedRemedy Change "PClass_PD is the maximum power at the Table 145–24)" To: "PClass_PD is the maximum power at the in Table 145–24)"	ass ≥ PD PI per th ≥ PD PI per th	Ū	ed Class, as defined in	TFTD Christiar PSE new See 36 Cl 145 Jones, Chao Comment Ty The text 145.3.6. possess	n is right th eds to calco SC 145.2 d ype E t "If the PD 2), the PSI sive. Thoug	at the ulate F 2.7 conne E may	table reference Polass based Comment Si Poted to the PS	P 150 <i>P</i> 150 Cisco <i>tatus</i> D SE performs um supported	L 43 L utoclass (see double to be the second	# 103 <i>H</i> 103 <i>Edito</i>
Comment Type T Comment Statu PDs assigned Class is not defined Table 145-24 refers to PDs requested Class SuggestedRemedy Change "PClass_PD is the maximum power at the Table 145–24)" To: "PClass_PD is the maximum power at the in Table 145–24)" Proposed Response Response Statu TFTD	ass ≥ PD PI per th ≥ PD PI per th s W	ne PDs reques	ed Class, as defined in sted Class, as defined	TFTD Christiar PSE net See 36 C/ 145 Jones, Chac Comment Ty The text 145.3.6. possess SuggestedR	n is right th eds to calco SC 145.2 d ype E t "If the PD 2), the PSE sive. Thoug Remedy	at the ulate F 2.7 conne E may ht we	table reference Polass based Comment Sa octed to the PS set its minimu were trying to	P 150 <i>P</i> 150 Cisco tatus D SE performs um supported clear this up	L 43 L 43 Autoclass (see d output power b	# 103 # 103 Edito 145.2.7.2 and based on PAutoclass,"
Comment Type T Comment Statu PDs assigned Class is not defined Table 145-24 refers to PDs requested Class SuggestedRemedy Change "PClass_PD is the maximum power at the Table 145–24)" To: "PClass_PD is the maximum power at the in Table 145–24)" Proposed Response Response Statu	IS X ass PD PI per th PD PI per th S W doesn't ment	ne PDs reques	ed Class, as defined in sted Class, as defined class. However, the	TFTD Christiar PSE new See 36 Cl 145 Jones, Chac Comment Ty The text 145.3.6. possess SuggestedR change	n is right th eds to calco SC 145.2 d ype E t "If the PD 2), the PSI sive. Thoug Remedy to: "If the F	at the ulate F 2.7 conne E may ht we	table reference Polass based Comment St octed to the PS set its minimu were trying to nected to the	P 150 <i>P</i> 150 Cisco tatus D SE performs um supported clear this up PSE perform	L 43 L 43 Autoclass (see d output power b	# 103 <i>Halfs</i> <i>Edito</i>
Comment Type T Comment Statu PDs assigned Class is not defined Table 145-24 refers to PDs requested Class SuggestedRemedy Change "PClass_PD is the maximum power at the Table 145–24)" To: "PClass_PD is the maximum power at the in Table 145–24)" Proposed Response Response Statu TFTD Christian is right that the table referenced	IS X ass PD PI per th PD PI per th S W doesn't ment	ne PDs reques	ed Class, as defined in sted Class, as defined class. However, the	TFTD Christiar PSE new See 36 Cl 145 Jones, Chac Comment Ty The text 145.3.6. possess SuggestedR change	n is right th eds to calco SC 145.2 d ype E t "If the PD 2), the PSI sive. Thoug Remedy to: "If the F 2), the PSI	at the ulate F 2.7 conne E may ht we PD con E may	table reference Polass based Comment St octed to the PS set its minimu were trying to nected to the	P 150 <i>P</i> 150 Cisco <i>tatus</i> D SE performs um supported clear this up PSE perform mum support	L 43 L 43 Autoclass (see d output power b	# <u>103</u> # <u>103</u> <i>Edito</i> 145.2.7.2 and based on PAutoclass," e 145.2.7.2 and

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

Pa **150** Li **43**

C/ 145 SC 145.2.7 P 151 L 15 # 4 Darshan, Yair Mirosemi	5 C/ 145 SC 145. Johnson, Peter	2.7 P 151 Sifos Technolo	L 51 ogies	# 89
There are significant differences between the fixed values of the power per clas 145-11 to the calculated Pclass per equation 145-2. See for example class 4. F the table is 30W and the calculated value is 27.37W.		Comment Status D SEs that will deliver 4-pair power t ion on each pairset"	to a dual-signati	<i>PSE Class</i> ure PD shall
SuggestedRemedy Adopt darshan_03_0517.pdf		that will deliver 4-pair power to a d ayer classification on each pairset.		'D shall
Proposed Response Response Status W WFP	Proposed Response PROPOSED ACC	Response Status WEPT.		
TFTD <i>CI</i> 145 SC 145.2.7 <i>P</i> 151 <i>L</i> 45 # 4	C/ 145 SC 145.2 Zimmerman, George	2.7 P 152 CME Consultin	L 24 ing/Aqua	# 307
Darshan, Yair Mirosemi	Comment Type E	Comment Status D		Editorial
Comment Type TR Comment Status X In the text "After a successful DLL classification, the assigned Class changes d on the value of the PSEAllocatedPowerValue variable, as defined in Table 145- PSEAllocated-PowerValue values correspond with the maximum power a PD m PClass_PD; see Table 145–24 and 145.5.3.3.5.", missing PSEAllocatedPowerV	PSE Power state" return to " epending SuggestedRemedy 12. The Change "IDLE state	SE shall return to IDLE if it fails IDLE" or to "IDLE state." te" to "IDLE" <i>Response Status</i> W	PD. A PSE sha	Il return to the IDLE
SuggestedRemedy	, ,	EPT IN PRINCIPLE.		
Change text to: "After a successful DLL classification, the assigned Class changes depending of of the PSEAllocatedPowerValue variable when single-signature PD is supported PSEAllocatedPowerValue_alt(X) when dual-signature PD is supported, as defin 145–12. The PSEAllocatedPowerValue and PSEAllocated-PowerValue values of with the maximum power a PD may draw, PClass_PD and PClass_PD-2P resp.	d and ed in Table correspond	state" to "IDLE"		

Proposed Response Response Status W

technically, OoS

TFTD

Pa **152** Li **24**

Fditorial

C/ 145	SC 145.2.7.1	P 152	L 44	#	138	
Schindler, F	Fred	Seen Simply,	Cisco, T			

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

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.

Comment Status D

C/ 145	SC 145.2.7.1	P 152	L 53	#	90
Johnson, F	Peter	Sifos Technol	ogies		

The sentence, "PSEs that require more class events for mutual identification, or to discover the PD requested Class, than the available power allows may issue a class reset event after performing mutual identification or classification.", uses an undefined phrase "class reset event" and also would be better placed as the 2nd sentence after Table 145-13 because the sentence preceding it would then describe the core issue of not furnishing more events than the Class they support.

PSF Class

SuggestedRemedy

Comment Type T

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 S	C 145.2.7.1	P 154	L 3	# 208
Thompson, Ge	off	GraCaSI S.A.		
Comment Type	e ER	Comment Status D		Channel

Current text in P802.3bt/D2.4: NOTE—In a properly operating system, the port may or may not discharge to the VMark range due to the combination of channel and PD capacitance and PD current loading.

SuggestedRemedy

Proposed text for P802.3bt/D2.5: NOTE—In a properly operating system, the port may or may not discharge to the VMark range due to the combination of the overall channel and PD capacitance and PD current loading.

Proposed Response Response Status W PROPOSED ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	Pa 154	Page 33 of 71
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	Li 3	4/28/2017 2:15:39 PM
SORT ORDER: Page, Line		

C/ 145 SC 145.2.7.1 P 154 L 20 # 91 Johnson, Peter Sifos Technologies Si		^D156 <i>L</i> 25 rosemi	# 47		
Comment Type T Comment 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	Comment Type TR Comment Statu The use of Icon-2P_unbalance in Table 1 darshan_13_0517pdf. SuggestedRemedy		Pres: Darshan1. ee		
Type of the connected PD, then transition to either the CLASS_RESET_PRI or CLASS_RESET_SEC."	Adopt darshan_13_0517.pdf if ready. If no	ot ready, add to TO DO lis	t		
SuggestedRemedy	Proposed Response Response Statu	is W			
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	WFP				
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.		° 156 <i>L</i> 27 rosemi	# 48		
	Comment Type TR Comment State	us X	Pres: Darshan		
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	TODO #129, #152 D2.3 To verify after all Ipeak_2P_unb and ILIM-2P are sync with with resistance of +/-1% accuracy.				
that pairset."	SuggestedRemedy				
TFTD, again not crazy about wording.	Adopt darshan_07_0517.pdf if ready. If no	ot ready, addto TO DO list			
C/ 145 SC 145.2.7.2 <i>P</i> 155 <i>L</i> 13 # 209 Thompson, Geoff GraCaSI S.A.	Proposed Response Response Statu WFP	ıs W			
Comment Type ER Comment Status D Channel	TFTD				
Current text in P802.3bt/D2.4:allocate enough power to cope with increases in channel resistance due to temperature increase.		² 158 <i>L</i> 51	# 264		
SuggestedRemedy		ilips Lighting			
Proposed text for P802.3bt/D2.5:allocate enough power to cope with increases in the overall channel resistance due to temperature increase.	Comment Type E Comment Status D Edito " shall be met with a load step of (IHold max _ VPort_PSE-				
Proposed Response Response Status W	2P min) to the maximum power	r per the PSEOs assigned	Class E."		
PROPOSED ACCEPT.	Linebreak in VPort_PSE-2P min.				
	SuggestedRemedy				
	Add non-breaking hyphen.				
	Proposed Response Response Statu PROPOSED ACCEPT.	ıs W			
VDE: TR/technical required ER/aditorial required GR/general required T/technical E/aditorial G/		Pa 159	Page 34 of 71		

Pa **158** Li **51**

C/ 145 SC 145.2.8.3 P 159 L 24 # 126 Picard, Jean Texas Instruments Texas Instruments Texas Instruments Texas Instruments	C/ 145 SC 145.2.8.5 P 161 L 22 # 210 Thompson, Geoff GraCaSI S.A. GraCaSI S.S. GraCaSI S.S.
Comment Type TR Comment Status D Transients The following sentence does not make sense. In reality the PSE cannot really short the PI voltage, all it can do is temporarily turn off its port (it's only a low side switch after all, with a 0.1uF cap). The minimum PD input capacitance CPort min or CPort-2P min defined in Table 145–28, allows a PD to operate for input voltage transients which cause VPD to drop as low as 0 V, lasting less than 30 µs as specified in 145.3.8.6."	Comment Type ER Comment Status D Channel Current text in P802.3bt/D2.4: Rchan is the channel loop resistance as defined 145.1.3 SuggestedRemedy Proposed text for P802.3bt/D2.5: Rchan is the link section loop resistance as defined 145.1.3 Proposed text for P802.3bt/D2.5: Rchan is the link section loop resistance as defined 145.1.3 Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT IN PRINCIPLE.
SuggestedRemedy Use similar wording to the "at" standard, removing "which cause VPD to drop as low as 0	REF 204
V". The wording becomes this:	C/ 145 SC 145.2.8.5 P 161 L 44 # 49 Darshan, Yair Mirosemi
"The minimum PD input capacitance CPort min or CPort-2P min defined in Table 145–28, allows a PD to operate for input voltage transients lasting less than 30 μs as specified in 145.3.8.6"	Comment TypeTRComment StatusXPres: Darshan7To verify that Ipeak-2P_unb max value is in sync with (ILIM-2P-2mA).
Proposed Response Response Status W PROPOSED ACCEPT.	SuggestedRemedy Addopt darshan_07_0517.pdf if ready. If not ready, add to TO DO list.
C/ 145 SC 145.2.8.4 P 159 L 28 # 105 Jones, Chad Cisco <	Proposed Response Response Status W WFP
Comment Type E Comment Status D Editorial I received this email on 4/20/17: Please review the text for any explicit or implicit	TFTD
guarantees made within the document, especially those that are safety-related. Avoid making guarantees if there is a possibility of unforeseen situations or circumstances	C/ 145 SC 145.2.8.5 P 161 L 48 # 190 Thompson, Geoff GraCaSI S.A. GraCaSI S.S. GraCaSI S.S. GraCaSI S.S. GraCaSI S.S. GraCaSI S.S. GraCaSI S.S.
altering an outcome. For example, words such as "ensure," "guarantee," "maximize," minimize," etc., should be modified, if they are inaccurate. Substitutions might include "reduce" or "improve." For example, "to ensure safety" might be changed to "to improve safety" or "to prevent" might be changed to "to reduce.".	Comment Type ER Comment Status D Channel Current text in P802.3bt/D2.4: Rchan-2P is the channel DC loop resistance per pairset as defined 145.1.3
The next several comments will be the result of my search of the document for these terms. I will preface these comments with #ABSOLUTE.	SuggestedRemedy
the text: "should be limited to rare circumstances such as those involving switchover of backup power supplies to ensure system robustness"	Proposed text for P802.3bt/D2.5: Rchan-2p is the link section DC loop resistance per pairset as defined 145.1.3
SuggestedRemedy	Proposed Response Response Status W
change to: "should be limited to rare circumstances such as those involving switchover of backup	PROPOSED ACCEPT IN PRINCIPLE.
power supplies to improve system robustness"	REF 204
Proposed Response Response Status W	

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Page, Line Pa **161** Li **48** Page 35 of 71 4/28/2017 2:15:39 PM

Unbalance

C/ 145	SC 145.2.8.5.1	P 162	L 15	#	50
Darshan, Y	<i>l</i> 'air	Mirosemi			



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

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

2. The existing text, p201 L39.

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

Based on the information I got from David Law:

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

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

10.2.5 "Absolute" verbiage

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

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

Now Analyzing this info:

Base on the above:

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

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

SuggestedRemedv

Option 1:

1. Modify the existing text in p162 L15 to:

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

2. Modify the existing text in p201 L39:

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

C/ 145	SC 145.2.8.	5.1 <i>P</i> 162	L 15	# 106
Jones, Ch	ad	Cisco		
Comment	Type E	Comment Status X		Unbalance

#ABSOLUTE

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

SugaestedRemedv

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

Pa 162

Li 15

Proposed Response Response Status W

TFTD

See 50. 139

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: Page, Line

Page 36 of 71 4/28/2017 2:15:39 PM

C/ 145 SC 145.2.8.5.1 P 162 L 16 # 191
Thompson, Geoff GraCaSI S.A.
Comment Type ER Comment Status D Channel
Current text in P802.3bt/D2.4:along with any other parts of the system, i.e., channel (cables and connectors) and the PD,
SuggestedRemedy
Proposed text for P802.3bt/D2.5:along with the other parts of the system, i.e., the cabling and the PD,
Proposed Response Response Status W
PROPOSED ACCEPT.
C/ 145 SC 145.2.8.5.1 P 162 L 19 # 192
Thompson, Geoff GraCaSI S.A.
Comment Type ER Comment Status D Channel Current text in P802.3bt/D2.4: ICon-2P-unb applies for channel common mode pair resistances
SuggestedRemedy
Proposed text for P802.3bt/D2.5: ICon-2P-unb applies for link section common mode pair resistances
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
REF 204
C/ 145 SC 145.2.8.5.1 P 162 L 27 # 193
Thompson, Geoff GraCaSI S.A.
Comment Type ER Comment Status D Channe
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
Proposed text for P802.3bt/D2.5:under worst case conditions of link section pair to pair
unbalance and PD PI pair to pair unbalance.
Proposed Response Response Status W
PROPOSED ACCEPT IN PRINCIPLE.
REF 204

Pa **162** Li **27**

C/ 145 SC 145.2.8.5.1 P 162 L 31 # 30 Anslow, Pete Ciena Ciena	Cl 145 SC 145.2.8.5.1 P 163 L 2 # 93 Johnson, Peter Sifos Technologies Sifos Technologies Sifos Technologies Sifos Technologies
Comment TypeEComment StatusXEditorialFour trailing zeros in Equation 145-15. Four trailing zeros in Equation 145-18.	Comment Type E Comment Status D Table 145-17 no longer has Rload_* values but is titled "Rload_max and Rload_min requirements".
SuggestedRemedy Delete them	SuggestedRemedy Re-title table to "Rload_max and Rload_min components"
Proposed Response Response Status W TFTD	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
Yair, Lennart, what was our conclusion here?	OBE by 265
C/ 145 SC 145.2.8.5.1 P 162 L 48 # 51 Darshan, Yair Mirosemi	C/ 145 SC 145.2.8.5.1 P 163 L 6 # 52 Darshan, Yair Mirosemi
Comment Type E Comment Status X Editorial In the text below: "A PSE shall not source more than ICon-2P-unb min on any pair when connected to a **/od** as shown in Figure 145–22, using values of Rload_min and Rload_max as specified in Equation (145–16) and Equation (145–17).", It is not clear that the "load" is the PSE load	Comment TypeTRComment StatusXPres: Darshan8TODO #129#152D2.3Table 145-17 contain resistance values of actual test verification model. This values may need to be rounded to 1% in order that Icon-2P_unb will be kept with accuracy of +/-5mA/TBD.SuggestedRemedy
SuggestedRemedy Change text to "A PSE shall not source more than ICon-2P-unb min on any pair when connected to the **PSE load** as shown in Figure 145–22, using values of Rload_min and Rload_max as specified in Equation (145–16) and Equation (145–17)." Proposed Response Response Status W	Adopt darshan_08_0517.pdf if ready. If not ready, addto TO DO list. Proposed Response Response Status W WFP TFTD
TFTD	C/ 145 SC 145.2.8.5.1 P 163 L 6 # 194 Thompson, Geoff GraCaSI S.A.
What is a "PSE load?" Technically, OoS. C/ 145 SC 145.2.8.5.1 P 163 L 1 # 265	Comment Type ER Comment Status D Channel Current text in P802.3bt/D2.4: Low channel resistance conditions. All resistances within 1% range. Channel Channel
Vendt, Matthias Philips Lighting	SuggestedRemedy Proposed text for P802.3bt/D2.5: Low link section resistance conditions. All resistances
Comment Type ER Comment Status D Editorial original text: "Table 145-17 Rload_max and Rload_min requirements" This table is no longer about Rload (which is now in Equation 145-16 and 17).	within 1% range. <i>Proposed Response Response Status</i> W PROPOSED ACCEPT IN PRINCIPLE.
SuggestedRemedy Change title to: "Table 145-17 Unbalance load resistances"	REF 204
Proposed Response Response Status W PROPOSED ACCEPT.	
TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G, COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/v SORT ORDER: Page, Line	

C/ 145 SC 145.2.8.5.1 P 163 L 13 # 195 Thompson, Geoff GraCaSI S.A. GraCaSI S.A.	C/ 145 SC 145.2.8.5.1 Johnson, Peter	P 163 Sifos Technol	L 34 ogies	# 94
Comment Type ER Comment Status D Channel		Comment Status D		Editorial
Current text in P802.3bt/D2.4: High channel resistance conditions. All resistances within 1% range.	In keeping with fact that Ta explain this on line 34.	able 145-17 does not have	e Rload_* values	s, insert phrase to
SuggestedRemedy	SuggestedRemedy			
Proposed text for P802.3bt/D2.5: High link section resistance conditions. All resistances within 1% range.	Modify sentence to "Table Rload_min and Rload_max	•	es of resistance	used in computing
Proposed Response Response Status W	Proposed Response R	Response Status W		
PROPOSED ACCEPT IN PRINCIPLE.	PROPOSED ACCEPT.			
REF 204	C/ 145 SC 145.2.8.5.1	P 163	L 38	# 53
C/ 145 SC 145.2.8.5.1 P 163 L 26 # 196	Darshan, Yair	Mirosemi		
Thompson, Geoff GraCaSI S.A.	Comment Type ER	Comment Status D		Editorial
Comment Type ER Comment Status D Channel Current text in P802.3bt/D2.4:common mode channel resistances in the powered pairs	The variable names for Rc Equation 145-16 and Equa darshan_010317Rev008.p	tion 145-17 were not imp		and Rpair_PD_max in
of the same polarity from the PSE PI to the PD PI per the model	SuggestedRemedy			
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 span of the channel is specified. I would prefer to use link section here for consistency.)	1.Change Equation 145-1 To: Rload_min=Rpd_min+ 2. Change Equation 145-1 To: Rload_max=Rpd_max	Rch_unb_min 7 from: Rload_max=Rair_		
Proposed Response Response Status W		Response Status W		
PROPOSED ACCEPT IN PRINCIPLE.	PROPOSED ACCEPT.			
REF 204	C/ 145 SC 145.2.8.5.1	P 163	L 38	# 266
C/ 145 SC 145.2.8.5.1 P 163 L 31 # 197	Wendt, Matthias	Philips Lightin	g	
Thompson, Geoff GraCaSI S.A.	Comment Type TR	Comment Status D		Unbalance
Comment Type ER Comment Status D Channel Current text in P802.3bt/D2.4:described in Figure 145–22 and as defined by the pair-to- pair channel resistance unbalance requirement for	original text: "Rload_min = in equation 145-16 and 14 RPD_min/max.			e 145-17 lists
SuggestedRemedy	SuggestedRemedy			
Proposed text for P802.3bt/D2.5:described in Figure 145–22 and as defined by the link section pair-to-pair resistance unbalance requirement for	Change to: Rload_min = R Also, there is a missing wh	·		•
Proposed Response Response Status W	Proposed Response R	Response Status W		
PROPOSED ACCEPT IN PRINCIPLE.	PROPOSED ACCEPT IN I	PRINCIPLE.		
REF 204	Rpd is fixed by equation 53	3.		
	Add "where" statement t	pelow equations as approp	oriate.	

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn Li 38 4/28/2017 2:15:39 PM SORT ORDER: Page, Line

C/ 145 SC 145.2.8.5.1 P 163 L 45 # 198 Thompson, Geoff GraCaSI S.A. GraCaSI S.S.	C/ 145 SC 145.2.8.5.1 P 164 L 3 # 199 Thompson, Geoff GraCaSI S.A. GraCaSI S.A.
Comment Type ER Comment Status X Channel Current text in P802.3bt/D2.4: ICon-2P-unb and Equation (145–15) are specified for total channel common mode pair resistance RChan-2P from 0.2 Ω to 12.5 Ω and worst case unbalance contribution by a PD. (I don't understand what "total 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 at hand? We have no control of "total channel common mode pair resistance" other than by the independent specification of each of the 3 elements, PSE, Link Section and PD. Derivations of how we came to the values of each have no place in the specifications of each of the two separate devices.) SuggestedRemedy	Comment Type ER Comment Status D Channel Current text in P802.3bt/D2.4: Channel SuggestedRemedy Proposed Remedy Proposed text for P802.3bt/D2.5: Link Section Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. REF 204
Proposed text for P802.3bt/D2.5: If we are to include these derivations they should be in an informative annex.	C/ 145 SC 145.2.8.5.1 P 164 L 4 # 54 Darshan, Yair Mirosemi Mirosemi <t< td=""></t<>
Proposed Response Response Status W TFTD	Comment Type T Comment Status X Pres: Darshans Update Figure 145-22 per darshan_09_0517.pdf
C/ 145 SC 145.2.8.5.1 P 163 L 46 # 95 ohnson, Peter Sifos Technologies Sifos Technologi	SuggestedRemedy Adopt darshan_09_0517.pdf
Comment Type T Comment Status X Unbalance This paragraph (starting with "ICon-2P-unb and Equation (145–15) are specified for") needs some help. It is not very clear and is grammatically flawed. SuggestedRemedy	Proposed Response Response Status W WFP TFTD
Replace with: "The values for Icon_2p_unb and the relationship between RPSE-max and RPSE_min (Equation 145-15) are valid given that Rchan-2P ranges from 0.2 ohms to 12.5	C/ 145 SC 145.2.8.5.1 P 164 L 10 # 200 Thompson, Geoff GraCaSI S.A. 200 <t< td=""></t<>
ohms and that the PD meets requirements of 145.3.8.10. In cases where Rchan-2P is less than 0.2 ohms or Rchan is less than 0.1 ohm, PSE compliance with Icon-2P-unb can be evaluated using Rload_min and Rload_max both reduced by 0.5 X Rchan-2P. This compliance will require a reduction in the ratio of RPSE_max to RPSE_min presented by Equation 145-15.	Comment Type ER Comment Status X Unbalance 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?
Proposed Response Response Status W TFTD	SuggestedRemedy Proposed text for P802.3bt/D2.5: ????
Technically, OoS.	Proposed Response Response Status W
Yair and Pete, please work together.	
Also, see 198.	

Pa **164** Li **10**

C/ 145 SC 145.2.8.5.1 P 164 L 17 # 201 Thompson, Geoff GraCaSI S.A.	Cl 145 SC 145.2.8.6 P 164 L 35 # 268 Yseboodt, Lennart Philips
<i>Comment Type</i> ER <i>Comment Status</i> X <i>Unbalance</i> 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"	Comment Type ER Comment Status D Editorial "POWER_UP occurs on each pairset between the transition to the POWER_UP state on that pairset and the expiration of T Inrush-2P . PSEs that have assigned Class 5 to 8 to a single-signature PD shall reach the POWER_ON state on both pairsets within T Inrush-2P max, starting with the first pairset transitioning into the POWER_UP state, and where the second pairset transitions to POWER_UP anytime within this time period."
Proposed text for P802.3bt/D2.5: ???? Proposed Response Response Status W TFTD	Liberally mixes 'POWER_UP' and 'the POWER_UP state'. Didn't we decide to use the state name, but not 'state'.
C/ 145 SC 145.2.8.5.1 P 164 L 20 # 55 Darshan, Yair Mirosemi Comment Type T Comment Status X Pres: Darshan9 TODO#370 D2.3.	The very first use of POWER_UP (also in the subclause title) is the odd duck as it doesn't point to the actual state. SuggestedRemedy "Power up occurs on each pairset between the transition to POWER_UP on that pairset and the expiration of T Inrush-2P . PSEs that have assigned Class 5 to 8 to a single-signature PD shall reach POWER_ON on both pairsets within T Inrush-2P max, starting with the first pairset transitioning into POWER_UP, and where the second pairset
Comment: Figure 145-22 is titled "PSE PI unbalance specification and E2EP2PRunb" to replace the abbreviation with "PSE PI unbalance specification and system resistance unbalance". Also remove the two occurences of this abbreviation in Annex 145A and replace by remedy text. Respose: check correct usage of these terms and provide new definition(s)	transitions to POWER_UP anytime within this time period." Change subclause title to "Output current during power up". Proposed Response Response Status W PROPOSED ACCEPT.
Adopt darshan_09_0517.pdf Proposed Response Response Status W	C/ 145 SC 145.2.8.6.1 P 165 L 33 # 96
WFP TFTD	Johnson, Peter Sifos Technologies Comment Type T Comment Status X PSE Inrush There is an inconsistency in the three minimum inrush current requirements a), b), and c)
C/ 145 SC 145.2.8.5.1 P 164 L 24 # 267 Wendt, Matthias Philips Lighting Philips Lighting Unbalance Comment Type TR Comment Status D Unbalance	and Table 145-16. Conditions a) and b) specify "minimum linrush-2P" requirements with actual values while Table 145-16 is blank for minimum Inrush-2P given Single Signature PD. Are these figures really applicable to linrush-2P or are they applicable to linrush? Item c) says refer to Table 145-16 for minimum linrush-2P, but again, those boxes are blank for Single Signature.
original text: "a) Use Rload_min and Rload_max from Table 145-17 for low channel resistance conditions." evaluation note referees in a) to Table 145-17 where as there only the requirements for the calculation are listed.	SuggestedRemedy Resolve if 5mA and 60mA are really applicable to linrush or linrush-2P. For condition c), replace with "above 30V, the minimum linrush and Dual Signature linrush-2P regiurements are as specified in Table 145-16."
SuggestedRemedy Change to: a) Use Rload_min and Rload_max from equations 145-16 and 145-17 for low channel resistance conditions.	Proposed Response Response Status W TFTD
roposed Response Response Status W PROPOSED ACCEPT.	Should we clarify the note in Table 145-16? Maybe with the minimum value only applies above 30V?
YPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/g COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/wr	

C/ 145 SC 145.2.8.6.1 P 165 L 44 # 97 Johnson, Peter Sifos Technologies Sifos Technologies 97	C/ 145 SC 145.2.8.6.1 P 166 L 2 # 169 Thompson, Geoff GraCaSI S.A. GraCaSI S.S. GraCaSI S.S.
Comment TypeTComment StatusDPSE InrushThe 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 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 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 Tinrush-2P min requirement presumably only works for PD's that draw inrush starting with the power-up.	Comment Type ER Comment Status D Channel Current text in P802.3bt/D2.4: channel resistance SuggestedRemedy Proposed text for P802.3bt/D2.5: link section resistance Proposed text for P802.3bt/D2.5: link section resistance Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. REF 204
SuggestedRemedy I do no know how to resolve this since specifying that a PSE has the full Tinrush-2P min period to power a PD is contrary to the overall inrush specification. PD's must be designed to charge with linrush min in a time period Tinrush-2P min less any delay time in the PD's start of inrush. This minimum inrush exception would present an interop risk it seems. Proposed Response Response Status W PROPOSED REJECT. 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 still starts from time 0.	Cl 145 SC P 166 L 24 # 310 Lukacs, Miklos Silicon Labs Silicon Labs PSE Power 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 Response Status W
Cl 145 SC 145.2.8.6.1 P 165 L 46 # 168 Thompson, Geoff GraCaSI S.A. GraCaSI S.A. Channel Comment Type ER Comment Status D Channel Current text in P802.3bt/D2.4: channel resistance SuggestedRemedy Proposed text for P802.3bt/D2.5: link section resistance Proposed text for P802.3bt/D2.5: link section resistance Multiple	TFTD Is anyone else confused by this? The vertical dashed lines do not go all the way across to avoid this exact confusion.
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. REF 204	

Pa **166** Li **24**

Cl 145 SC 145.2.8.8 P 168 L 27 # 98 Johnson, Peter Sifos Technologies Sifos Technologies Sifos Technologies Sifos Technologies	C/ 145 SC 145.3.1 P 171 L 32 # 269 Yseboodt, Lennart Philips
Comment TypeTComment StatusDPSE PowerThis is purely a "for the record" comment. The final two paragraphs in 145.2.8.8 are, at face value, contradictory. The first of these states that Tlim-2P governs "short circuit" shutdown timing and notes that port voltage may drop below Vport_PSE-2P. The last sentence then says the PSE may ignore Tlim-2P timing if the voltage drops below Vport_PSE-2P.SuggestedRemedy	Comment Type E Comment Status D PD Types Table 145-18 uses the header "Single- or dual- signature" SuggestedRemedy Replace by "PD signature" which matches subclause title 145.3.5 Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
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.)	Based on the result of comment 154, I think "Signature Configuration" might be better.
Proposed 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. Also, technically OoS.	Cl 145 SC 145.3.1 P 172 L 2 # 270 Yseboodt, Lennart Philips Comment Type E Comment Status D PD Types "Single-signature PDs that request Class 3 or less implement Multiple-Event Physical
Cl 145 SC 145.3.1 P 171 L 25 # 154 Stewart, Heath Analog Devices Image: Comment Type ER Comment Status X PD Types Comment Type ER Comment Status X PD Types The notion of construction is odd. We have already created the idea of configuration in the PSE section and can reuse it here. SuggestedRemedy	Layer Classification and may implement Data Link Layer classification (see 145.5). Single-signature PDs that request Class 4 or greater implement both Multiple-Event Physical Layer classification (see 145.3.6.1) and Data Link Layer classification (see 145.5). Such Type 3 PDs request Class 4, 5, or 6, while Type 4 PDs request Class 7 or 8. Dual-signature PDs implement Multiple-Event Physical Layer classification and Data Link Layer Classification (see 145.5). Type 3 dual-signature PDs request Class 1, 2, 3, or 4 on each pairset, while Type 4 dual-signature PDs request Class 5 on at least one pairset."
Change PDs can be constructed as single-signature or dual-signature To PDs can be of either single-signature construction or dual-signature construction Proposed Response Response Status W	The origin of all of this text used to be to describe whether PDs supported Single or Multiple event, and whether they support DLL or not. ALL of this text is redundant to the Table in the same section, with the exception that that PDs support Multiple Event Physical layer. But that is true for all Types described here, and as such doesn't need stating here.
TFTD Heath, did you mean to change construction to configuration?	SuggestedRemedy Remove quoted text. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Since Physical layer class is not montioned in the table
	Since Physical layer class is not mentioned in the table Replace quoted text with: "All Type 3 and Type 4 PDs Multiple-Event Physical Layer classification."

Valker, Dykan Cico Stewart, Heat Analog Devices Comment Type TR Comment Status D PD Types The PD shall be implemented to be insensitive to the polarity of the power supply on either Mode. This shall hot contain the word "either" and shall be more specific. More serious, "either" could be constructed as "one or the other", and polarity insensitivity cannot assume any polarity on the other", and polarity insensitivity cannot assume any polarity on the other Mode. Stewart, Heat Comment Type ER Comment Type Editional Tic: Tic: Tic: Tic: Tic: Response Status W PROPOSED ACCEPT IN PRINCIPLE. OBE by 231 Yebs contend Type TR Comment Status D P172 L14 Z11 Yebs contend Type TR Comment Type P172 L24 Z11 Yebs contend Type TR Comment Type P172 L24 Z11 Yebs contend Type TR Comment Type P172 L24 Z11 Yebs contend Type TR Comment Status D D Editorial Status Contend Type TR Comment Status D D Tic: Tric: The D shallbe implemented to be insensitive to the polari	/ 145 SC 145.3.2 P 172 L 16 # 232	C/ 145 SC 145.3.2 P172 L 24 # 155
The D shall be implemented to be insensitive to the polarity of the power supply on either Mode. The referenced sentences use of "in that case" does not make sense. Suggested/Remedy Change: The PD shall be implemented to be insensitive to the polarity of the power supply on either Mode. The PD shall be implemented to be insensitive to the polarity of the power supply on either Mode. The PD shall be implemented to be insensitive to the polarity of the power supply on either Mode. The PD shall be implemented to be insensitive to the polarity of the power supply on either Mode. The PD shall be implemented to be insensitive to the polarity of the power supply on either Mode. The PD shall be implemented to be insensitive to the polarity of the power supply on either Mode. The PD shall be implemented to be insensitive to the polarity of the power supply on either Mode. The PD shall be implemented to be insensitive to the polarity of the power supply on either Mode. The PD shall be implemented to be insensitive to the polarity of the power supply on either Mode. The PD shall be implemented to be insensitive to the polarity of the power supply on either Mode. The PD shall be implemented to be insensitive to the polarity of the power supply on either Mode. The PD shall be implemented to be insensitive to the polarity of the power supply on either Mode. The PD shall be implemented to be insensitive to the polarity of the power supply on either Mode. The PD shall be implemented to be insensitive to the polarity of the power supply on either Mode. The PD shall be implemented to be insensitive to the polarity of the power supply on either Mode. The PD shall be implemented to be insensitive to th		Stewart, Heath Analog Devices
 "either" could be construed as "one or the other", and polarity insensitivity cannot assume any polarity on the other Mode. SuggestedRemedy Change: "The PD shall be implemented to be insensitive to the polarity of the power supply on either Mode." To: "The PD shall be implemented to be insensitive to the polarity of the power supply on each mode iregardless of the polarity of the power supply on each mode is genores Status W PROPOSED ACCEPT. Change the text from: "The PD shall be implemented to be insensitive to the polarity of the power supply on either intent is the PD shall be implemented to be insensitive to the polarity of the power supply on mode A and mode B and not just on mode A or mode A and mode B and not just on mode A or mode A and mode B and not just on mode A or mode A and mode B and not just on mode A or mode A and mode B and not just on mode A or mode A and mode B and not just on mode A or mode A and mode B and not just on mode A and Mode B." Change the text from: "The PD shall be implemented to be insensitive to the polarity of the power supply on either Mode." Change the text from: "The PD shall be implemented to be insensitive to the polarity of the power supply on mode A and Mode B." Change the text from: "The PD shall be implemented to be insensitive to the polarity of the power supply on either Mode." Change the text from: "The PD shall be implemented to be insensitive to the polarity of the power supply on either Mode." Change the text from: "The PD shall be implemented to be insensitive to the polarity of the power supply on either Mode." Change the text from: "The PD shall be implemented to be insensitive to the polarity of the power supply on either Mode." Change the text from: "The PD shall be implemented to be insensitive to the polarity of the power supply on either Mode." Change the text from: "The PD shall be implemented to be insensitive to t	"The PD shall be implemented to be insensitive to the polarity of the power supply on either	The referenced sentences use of "in that case" does not make sense.
Change: The PD shall be implemented to be insensitive to the polarity of the power supply on either Mode." To: To: The PD shall be implemented to be insensitive to the polarity of the power supply on eather mode. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. V145 SC 145.3.2 P 172 L 16 16 Possibilities in plemented to be insensitive to the polarity of the power supply on either Mode." PD Types TR Comment Status D PD Types V145 SC 145.3.2 P 172 L 16 16 16 170 PD Types V145 SC Comment Status D PD Types TR Comment Status D PD Types The PD shall be implemented to be insensitive to the polarity regardless if it is working on 2-pairs or 4-pairs i.e. on mode A and mode B and not just on mode A or mode A to mode A and mode B and not just on mode A or mode A to PSE that cannot supply the requested amount of power can choose to operate in a reduced power mode." SuggestedRemedy Change the text from: The PD shall be implemented to be insensitive to the polarity of the power supply on either Mode." Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. OBE by 232 OBE by 232 Change the text from: The PD shall be implemented to be insensitive to the polarity of the power supply on either Mode."	"either" could be construed as "one or the other", and polarity insensitivity cannot assume	The PD may operate in a reduced power mode in that case. To
To: "The PD shall be implemented to be insensitive to the polarity of the power supply on each mode regardless of the polarity of the power supply on the other mode." CI 145 SC 145.3.2 P 172 L 24 # 271 PROPOSED ACCEPT. CI 145 SC 145.3.2 P 172 L 16 # 56 SC 145.3.2 P 172 L 16 # 56 Comment Type TR Comment Status D PD Types The PD shall be implemented to be insensitive to the polarity of the power supply on either Mode." PD Types "The PD shall be implemented to be insensitive to the polarity regardless if it is working on 2-pairs or 4-pairs i.e. on mode A and mode B and not just on mode A or mode A and Mode B." PD Types SuggestedRemedy Change to regular text. Poposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PD shall be implemented to be insensitive to the polarity of the power supply on either Mode." Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. OBE by 232 PTT2 L 16 # 56 Comment Status D PD Types OBE by 232 PTT2 L 16 # 56 The PD shall be implemented to be insensitive to the polarity regardless if it is working on 2-pairs or 4-pairs i.e. on mode A and mode B and not just on mode A or mode B det. PCPOSED ACCEPT IN PRINCIPLE. Change to regular text. Replace last sentence by: "PDs connected to a PSE that cannot supply the requested amount of power may choose to operate in a reduced power mode." Proposed Response Response Status W PROPOSED ACCEP	Change: "The PD shall be implemented to be insensitive to the polarity of the power supply on either	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
PROPOSED ACCEPT. Proposed Response Provide the methode B. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. OBE by 232 Post and the text of the prover supply on either at a reduced power mode.	"The PD shall be implemented to be insensitive to the polarity of the power supply on each	C/ 145 SC 145.3.2 P 172 L 24 # 271
2/145 SC 145.3.2 P 172 L 16 # 56 barshan, Yair Mirosemi comment Type TR Comment Status D PD Types "The PD shall be implemented to be insensitive to the polarity of the power supply on either Mode." the intent is the PD shall be implemented to be insensitive to the polarity or gardless it.e. on mode A and mode B and not just on mode A or mode B etc. SuggestedRemedy Change to regular text. Replace last sentence by: "PD shall be implemented to be insensitive to the polarity of the power supply on either Mode." OBE by 232 PD shall be implemented to be insensitive to the polarity of the power supply on either Mode." Notestale Notestale SuggestedRemedy Change the text from: "The PD shall be implemented to be insensitive to the polarity of the power supply on either Mode." Notestale Notestale Notestale Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT IN PRINCIPLE. - Change to regular text. - Replace last sentence by: "PD so connected to a PSE that cannot supply the requested amount of power may choose to operate in a reduced power mode." PROPOSED ACCEPT IN PRINCIPLE. OBE by 232 TFTD, this sentence is misleading as PDs that get hooked up to a lower power PSE MUST operate at a reduced power mode (whether they just blink an LED or actually do something		"PDs interoperate with Type 1, Type 2, Type 3, and Type 4 PSEs, subject to power
	arshan, Yair Mirosemi omment Type TR Comment Status D PD Types "The PD shall be implemented to be insensitive to the polarity of the power supply on either Mode." the intent is the PD shall be implemented to be insensitive to the polarity regardless if it is working on 2-pairs or 4-pairs i.e. on mode A and mode B and not just on mode A or mode B etc. uggestedRemedy Change the text from: "The PD shall be implemented to be insensitive to the polarity of the power supply on either Mode." To "The PD shall be implemented to be insensitive to the polarity of the power supply on either Mode." roposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	Is typeset in Note style. Last sentence needs a bit more flesh. SuggestedRemedy - Change to regular text. - Replace last sentence by: "PDs connected to a PSE that cannot supply the requested amount of power can choo to operate in a reduced power mode." Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. - Change to regular text. - Replace last sentence by: "PDs connected to a PSE that cannot supply the requested amount of power may choo to operate in a reduced power mode." TFTD, this sentence is misleading as PDs that get hooked up to a lower power PSE MI operate at a reduced power mode (whether they just blink an LED or actually do somet

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: Page, Line Pa **172** Li **24** Page 44 of 71 4/28/2017 2:15:39 PM

C/ 145 Schindler, F	SC 145.3.2	P 172 Seen Simply,	L 28 Cisco, T	# 140	C/ 145 Stover, Dav	SC 145.3.3. vid	2 P 173 Analog Devi	L 26	# 166
Comment T		Comment Status X	01000, 1	PD PI	Comment		Comment Status D	000	Editorial
-		any voltage from 0 V to 57 V	V applied to Mo				ant indicatingthe PD reques	ted Class." Missi	
simultar	neously indefinit	ely without permanent dama	ge."	,,	Suggested	.–	3		5
This tex	t does not cove	r PD connections that exist w	vith Type 3 and	4 PSEs. The VPSE		-	ant indicating the PD reques	sted Class."	
voltage	for Type 3 and	4 PSEs normally has the neg	ative polarity or	n the hot-swap switch	Proposed I	 Response	Response Status W		
		plarity is unswitched. Therefore and will have a negative pole				OSED ACCEPT	•		
been po	owered on.	0 1	,		C/ 145	SC 445 2 2	4 <i>P</i> 175	L 39	# 070
SuggestedF	Remedy				Yseboodt,	SC 145.3.3.4	+ F175 Philips	L 39	# 272
Replace	e the called-out	text with,			Comment		Comment Status D		Editorial
"The PD	D shall withstand	d any voltage from 0 V to 57 V	V applied to Mo	de A, Mode B, both		51	after 'present_class_sig_B'		Eulional
		ode-A and Mode-B positive pa nanent damage."	airs and either N	lode negative pair,	Suggested				
Proposed R		Response Status W			Fix.	Nemeuy			
TFTD	esponse				Proposed I	Response	Response Status W		
					•	OSED ACCEPT	,		
/ 145	SC 145.3.3	P 173	L 3	# 141				• • •	
chindler, F		Seen Simply,	Cisco, I		C/ 145	SC 145.3.3.7	-	L 23	# 57
comment T		Comment Status D		PD SD	Darshan, Y		Mirosemi		55.01
Existing "A parar	, ,	with the suffix " mode(X)" m	ay have differer	nt values for Mode A	Comment in DO		Comment Status D T6 state the present_class_s	sia B may be EA	PD Class
and Moo	de B."	_ 、,					_CLASS_EVENT. I underst		
does no	ot completely ex	press the concern that this is	a local variable	that does not need to			may not have it so in order to _s_sig_A and present_class_s		
		s of the suffix. This is cleared					E or A=FALSE and (B=FAL		
SuggestedF					in the state just present_class_sig_A <==FALSE and remove present_class_sig_B so present_class_sig_B can be FALSE or TRUE.				ent_class_sig_B so
Option-	1: ne called-out se	ntence			Suggested	&_	ander ALGE of TROE.		
Ounce u	le called out se						ss_sig_B<==TRUE" fron the	state.	
Option-2	2: e the called-out	sentence with			Proposed I	• –	Response Status W		
"A parar	meter that ends	with the suffix "_mode(X)" m	ay have differer	nt values for Mode A	•	OSED REJECT	•		
	•	e state diagrams."							
Proposed Response Response Status W						e to give the PD a known be ng extra class pulses we clo			
PROPO	ROPOSED ACCEPT IN PRINCIPLE.				classifi	cation protocol	again (I know, we don't plan		
"A parar		sentence with, with the suffix "_mode(X)" m pendent state diagrams."	ay have differer	nt values for Mode A	we sho	ould ignore the p	oossibility).		
	echnical require	d ER/editorial required GR/	neneral required	T/technical E/editorial G	/general		Pa 1	179	Page 45 of 71
		patched A/accepted R/reject				U/unsatisfied		-	4/28/2017 2:15:39

SORT ORDER: Page, Line

C/ 145 SC 145.3.3.7	P 179	L 35	# 273	C/ 145 SC 145.3.4	P 186	L 18	# 102
Yseboodt, Lennart	Philips			Jones, Chad	Cisco		
Comment Type T	Comment Status D		Editorial	Comment Type ER	Comment Status D		Editoria
	ere is a spelling mistake, dll_	_enable.		the text "PD requesting is non-compliant," nee	power by presenting a deterd s'A' at the beginning	ction signature o	outside of Table 145–20
Why does this mistake k	<pre>keep popping up ? variable, set by the state ma</pre>	achine		SuggestedRemedy			
But it reads like a status			s what it does.	change to: "A PD reque 145–20 is non-complia	esting power by presenting a nt,"	detection signa	ture outside of Table
SuggestedRemedy				Proposed Response	Response Status W		
Global S&R:				PROPOSED ACCEPT			
pd_dll_enabled => pd_d pse_dll_enabled => pse_				Cl 145 SC 145.3.4 Zimmerman, George	P 186 CME Consult	L 19 ting/Aqua	# 308
Proposed Response PROPOSED ACCEPT.	Response Status W			<i>Comment Type</i> E "PD requesting power.	Comment Status D	") was inadve	Editoria
C/ 145 SC 145.3.3.7 Abramson, David	P 179 Texas Instrun	L 40	# 1	SuggestedRemedy Change to read "A PD	requesting"		
Comment Type TR	Comment Status X allows unwanted behavior b		Pres: Abramson1	Proposed Response PROPOSED ACCEPT	Response Status W IN PRINCIPLE.		
SuggestedRemedy				OBE by 102			
Adopt changes in abram				C/ 145 SC 145.3.4	P 187	L 21	# 110
Proposed Response	Response Status W			Lukacs, Miklos	Silicon Labs		
WFP				Comment Type E	Comment Status D		Editoria
TFTD				The Voffset and Vpd=2	2.7V markers are shifted to the	ne left on figure 3	33-34.
C/ 145 SC 145.3.3.7 Darshan, Yair	P 179 Mirosemi	L 44	# 58	SuggestedRemedy Shift Voffset and Vpd=	2.7V markers to the right, co	rrect position	
Comment Type TR	Comment Status D comparison in powered to p	nower undate st	PD SD	Proposed Response PROPOSED ACCEPT	Response Status W		
SuggestedRemedy		onoi_upuato st					
Change from "pd_power	r_update * pd_dll_enabled * $pd_dll_enabled * Vd_dll_enabled * (VPD ≥ Vd$)"				
Proposed Response	Response Status W	/					
PROPOSED ACCEPT.							

Pa **187** Li **21**

C/ 145 SC 145.3.5	P 187	L 29	# 274	C/ 145 SC 145.3.6	6 P 187	L 52	# 167
Yseboodt, Lennart	Philips			Stover, David	Analog Device	es	
20, on a given Mode v	Comment Status X D shall present a valid detection when no voltage or current is a	applied to the oth	ner Mode, and shall	Comment Type ER "The PD shall draw r Proper case.	Comment Status D no more powerthan defined fo	or the requested	Editoria class in Table…"
	tection signature on that Mode other Mode. These requireme			SuggestedRemedy "than defined for th	ne requested Class in Table…"		
10.1V are applied to t	ich defines what a single-sig P the 'corruptor' pairset. eck however, only voltages BE	,		Proposed Response PROPOSED ACCEF			
				C/ 145 SC 145.3.6		L 10	# 275
I he lowest possible c signature is 2.7V + 1\	corruptor voltage that is guaran	iteed to create a	n invalid detection	Yseboodt, Lennart	Philips		
-				Comment Type E	Comment Status D		Editoria
The way this is writter PD would need to pas	e down to 3.7V, we make the r n, it specifies a PD to show a v ss detection (not connection ch corruptor voltage on the other	alid detection si neck) which can'	gnature. This says the		is that request Class 4 or highe at least one of its Modes shall p		
SuggestedRemedy				SuggestedRemedy			
"A single-signature PI	D shall present a valid detection when no voltage or current is a			"Single-signature PD	es that request Class 4 or highe at least one of its Modes shall r		
				5			
present an invalid det	tection signature on that Mode	when any voltag	e between 3.7 V and	Proposed Response	Response Status W		
present an invalid det 57 V is applied to the	tection signature on that Mode other Mode. These requireme	when any voltag	e between 3.7 V and	Proposed Response PROPOSED ACCEF	Response Status W		
present an invalid det	tection signature on that Mode	when any voltag	e between 3.7 V and	PROPOSED ACCEP	Response Status W	L 22	
present an invalid det 57 V is applied to the <i>Proposed Response</i> TFTD	tection signature on that Mode other Mode. These requireme <i>Response Status</i> W	when any voltagents apply to both	ge between 3.7 V and Mode A and Mode B."		Response Status W	L 22	# 276
present an invalid det 57 V is applied to the <i>Proposed Response</i> TFTD Lennart points out a n	tection signature on that Mode other Mode. These requireme <i>Response Status</i> W real problem (the requirements plution will not always work (the	when any voltag nts apply to both for DS don't act	e between 3.7 V and Mode A and Mode B." wally apply to the valid	PROPOSED ACCER Cl 145 SC 145.3.6 Yseboodt, Lennart Comment Type ER	Response Status W PT. 5 P 188		# 276 Editoria
present an invalid det 57 V is applied to the Proposed Response TFTD Lennart points out a rivest range), but his so than the detection pro-	tection signature on that Mode other Mode. These requireme <i>Response Status</i> W real problem (the requirements plution will not always work (the obe voltage).	when any voltag nts apply to both for DS don't act	e between 3.7 V and Mode A and Mode B." wally apply to the valid	PROPOSED ACCER Cl 145 SC 145.3.6 Yseboodt, Lennart Comment Type ER	Response Status W PT. PT. P 188 Philips Comment Status D		# 276 Editoria
present an invalid det 57 V is applied to the Proposed Response TFTD Lennart points out a ri- test range), but his so than the detection pro- Cl 145 SC 145.3.6	tection signature on that Mode other Mode. These requireme <i>Response Status</i> W real problem (the requirements plution will not always work (the obe voltage).	when any voltag nts apply to both for DS don't act corrupting volta	e between 3.7 V and Mode A and Mode B." wally apply to the valid age needs to be higher	PROPOSED ACCER Cl 145 SC 145.3.6 Yseboodt, Lennart Comment Type ER Swap the first two ro	Response Status W PT. PT. P 188 Philips Comment Status D		# 276 Editoria
present an invalid det 57 V is applied to the Proposed Response TFTD Lennart points out a m test range), but his so than the detection pro Cl 145 SC 145.3.6 Jones, Chad	tection signature on that Mode other Mode. These requireme <i>Response Status</i> W real problem (the requirements olution will not always work (the obe voltage). P 187	when any voltag nts apply to both for DS don't act corrupting volta	e between 3.7 V and Mode A and Mode B." wally apply to the valid age needs to be higher	PROPOSED ACCER C/ 145 SC 145.3.6 Yseboodt, Lennart Comment Type ER Swap the first two ro SuggestedRemedy	Response Status W PT. PT. P 188 Philips Comment Status D		# 276 Editoria
present an invalid det 57 V is applied to the Proposed Response TFTD Lennart points out a m test range), but his so than the detection pro Cl 145 SC 145.3.6 Jones, Chad Comment Type E poor form on gramma	tection signature on that Mode other Mode. These requireme <i>Response Status</i> W real problem (the requirements obtition will not always work (the obe voltage). P187 Cisco	when any voltag nts apply to both for DS don't act corrupting volta <i>L</i> 45 s used by the PS	ge between 3.7 V and n Mode A and Mode B." ually apply to the valid age needs to be higher # 104 <i>Editorial</i> SE and the PD to	PROPOSED ACCER Cl 145 SC 145.3.6 Yseboodt, Lennart Comment Type ER Swap the first two ro SuggestedRemedy Per comment.	Response Status W PT. PT. P 188 Philips Comment Status D ws (header rows) of Table 145- Response Status W		# 276 Editoria
present an invalid det 57 V is applied to the Proposed Response TFTD Lennart points out a m test range), but his so than the detection pro Cl 145 SC 145.3.6 Jones, Chad Comment Type E poor form on gramma	tection signature on that Mode other Mode. These requireme <i>Response Status</i> W real problem (the requirements olution will not always work (the obe voltage). <i>P</i> 187 Cisco <i>Comment Status</i> D ar: "Additionally, classification i	when any voltag nts apply to both for DS don't act corrupting volta <i>L</i> 45 s used by the PS	ge between 3.7 V and n Mode A and Mode B." ually apply to the valid age needs to be higher # 104 <i>Editorial</i> SE and the PD to	PROPOSED ACCEP Cl 145 SC 145.3.6 Yseboodt, Lennart Comment Type ER Swap the first two ro SuggestedRemedy Per comment. Proposed Response	Response Status W PT. PT. P 188 Philips Comment Status D ws (header rows) of Table 145- Response Status W		# 276 Editoria
present an invalid det 57 V is applied to the Proposed Response TFTD Lennart points out a ri- test range), but his so than the detection pro- C/ 145 SC 145.3.6 Jones, Chad Comment Type E poor form on gramma mutually identify the T SuggestedRemedy change to: "Additiona	tection signature on that Mode other Mode. These requireme <i>Response Status</i> W real problem (the requirements olution will not always work (the obe voltage). <i>P</i> 187 Cisco <i>Comment Status</i> D ar: "Additionally, classification i	for DS don't act corrupting volta <i>L</i> 45 s used by the PS nected to." Dan	ge between 3.7 V and n Mode A and Mode B." uually apply to the valid age needs to be higher # 104 <i>Editorial</i> SE and the PD to gling preposition.	PROPOSED ACCEP Cl 145 SC 145.3.6 Yseboodt, Lennart Comment Type ER Swap the first two ro SuggestedRemedy Per comment. Proposed Response	Response Status W PT. PT. P 188 Philips Comment Status D ws (header rows) of Table 145- Response Status W		# 276 Editoria
present an invalid det 57 V is applied to the Proposed Response TFTD Lennart points out a ri- test range), but his so than the detection pro- C/ 145 SC 145.3.6 Jones, Chad Comment Type E poor form on gramma mutually identify the T SuggestedRemedy change to: "Additiona	tection signature on that Mode other Mode. These requireme <i>Response Status</i> W real problem (the requirements olution will not always work (the obe voltage). <i>P</i> 187 Cisco <i>Comment Status</i> D ar: "Additionally, classification i Type of the device they are cor	for DS don't act corrupting volta <i>L</i> 45 s used by the PS nected to." Dan	ge between 3.7 V and n Mode A and Mode B." uually apply to the valid age needs to be higher # 104 <i>Editorial</i> SE and the PD to gling preposition.	PROPOSED ACCEP Cl 145 SC 145.3.6 Yseboodt, Lennart Comment Type ER Swap the first two ro SuggestedRemedy Per comment. Proposed Response	Response Status W PT. PT. P 188 Philips Comment Status D ws (header rows) of Table 145- Response Status W		# 276 Editoria

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: Page, Line

Pa **188** Li **22** Page 47 of 71 4/28/2017 2:15:39 PM

C/ 145 SC 145.3.6.1 P 189 L 9 # 277 Yseboodt, Lennart Philips	C/ 145 SC 145.3.6.2 P 191 L 39 # 278 Yseboodt, Lennart Philips
Comment Type E Comment Status D Editorial "DO_CLASSEVENT_AUTO" Spurious '-'. SuggestedRemedy	Comment TypeTComment StatusDPD Class"A PD implementing Autoclass shall respond to Physical Layer classification as specified in 145.3.6.1 with the exception that the PD shall change its current during the first class event to class signature '0' no earlier than T ACS min and no later than T ACS max, as defined in Table 145-27."
"DO_CLASS_EVENT_AUTO" Proposed Response Response Status W PROPOSED ACCEPT.	No PD is exempt from 145.3.6.1, so it is redundant to spend a shall to affirm this is also the case for an Autoclass PD. SuggestedRemedy
Cl 145 SC 145.3.6.1 P 190 L 42 # 39 Beia, Christian ST Microelectronics ST Microelectronics Image: State of the state	Replace by: "A PD that implements Autoclass shall change its current during the first class event to class signature '0' no earlier than T ACS min and no later than T ACS max, as defined in Table 145-27."
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 SuggestedRemedy	In the next sentence, replace "A PD implementing Autoclass" by "A PD that implements Autoclass".
Change: "NOTE—PDs may be assigned to a lower Class than the PD requested Class, which results in a lower value of Pclass_PD."	Proposed Response Response Status W PROPOSED ACCEPT.
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."	Cl 145 SC 145.3.8 P 193 L 20 # 32 Beia, Christian ST Microelectronics ST Microelectronics ST
Proposed Response Response Status W PROPOSED ACCEPT.	Comment Type T Comment Status D PD Powe The assigned Class is the result of the PD requested Class and the number of class events produced by the PSE as shown in Table 145–11. PSE as shown in Table 145–11. Assigned Class has values from 1 to 8 In Table 145-28 Item 6, Item 7 the assigned Class can be 0 0
	SuggestedRemedy
	Change "Single-signature PD, Class 0 to 6" To "Single-signature PD, Class 1 to 6" Both on line 20 and line 31
	Proposed Response Response Status W PROPOSED ACCEPT.

Pa **193** Li **20**

<i>Cl</i> 145 <i>SC</i> 145.3.8 Darshan, Yair	P 193 Mirosemi	L 40	# 59	C/ 145 SC 14 Schindler, Fred	5.3.8	P 194 Seen Simply, (<i>L</i> 26 Cisco, T	# 142
Comment Type ER	Comment Status X		Editorial	Comment Type	TR	Comment Status D		PD Power
In Table 145-28 Item 8 clear. What is "PD control de SuggestedRemedy	"Inrush to PD current control lay"	delay". This p	arameter name is not	systems should 28.3 W, while or	provide n line 26	ng conditions Single-signatur the same power levels. On li a class-4 DS provides at lea while on line 27 a class-5 DS	ine 12, a class ast 28.4 W. Or	-4 SS provides at least ne line 13, a class-5 SS
	uggest better definition.			0.1	not the p	beak power). The math works	for the SS da	ta.
Proposed Response TFTD as requested	Response Status W			SuggestedRemedy Replace the Tab	ble item	11 for Class 4, which is "28.4	1" with "28.3".	
C/ 145 SC 145.3.8	P 194	L 6	# 33			11 for Class 5, which is "37.2	2" with "42".	
Beia, Christian	ST Microelectr	ronics		Proposed Response PROPOSED AC		Response Status W		
Comment Type T Assigned Class has va In Table 145-28 Item 1 SuggestedRemedy	Comment Status D lues from 1 to 8 0 the assigned Class can be (0	PD Power	While your sugg power drawn (no 37.2W entry for	gested ro	emedy is wrong (and this is fo ied)), there are some things t for DS is correct (it is half of	hat need to be	fixed. However, the
Recollocate Classes fro	om 1 to 8			Changes:	o to "3	4" for classes 1 to 4 in items	10 and 11	
Proposed Response PROPOSED ACCEPT	Response Status W IN PRINCIPLE.			0 11		3.3" for item 11, class 4.		
Remove class 0 and m	ove class 3 to sequential orde	er.						

Pa **194** Li **26**

Cl 145 SC 145.3.8 P 194 L 31 Beia, Christian ST Microelectronics	# 34	C/ 145 Beia, Christ	SC 145. ian	3.8	P 194 ST Microe	L 37 lectronics	# 35
Comment Type T Comment Status D Assigned Class has values from 1 to 8 In Table 145-28 Item 13 the assigned Class can't be 0	PD Power		ed Class ha		Comment Status D es from 1 to 8 the assigned Class can	be 0	PD Power
SuggestedRemedy Change "PI capacitance during MDI_POWER states for single-signature PDs" To: "PI capacitance during MDI_POWER states per assigned Class for single and Change: "Class 0 to 4" To: "Class 1 to 4" Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. There is no reason to make this dependent upon assigned class. Change: "Class 0 to 4" To: "Class 1 to 4"	e-signature PDs"	To: "Pairse PDs" and Ch "Class of To: "Class Proposed R PROPC	e t capacitan t capacitan ange: 0 to 4" 1 to 4" Response DSED ACC son to mak e: 0 to 4"	ce duri	ing MDI_POWER states ing MDI_POWER states <i>Response Status</i> W N PRINCIPLE. dependent on assigned	per assigned Cla	
		the PO May be SuggestedF	Type TR shavior of a WER_DEL a bit too lil Remedy rseboodt_0	t PD is AY or I beral	P 195 Philips Comment Status X undefined if V PD falls POWERED state, until V 7_nopower.pdf Response Status W		

Pa **195** Li **31**

Cl 145 SC 145.3.8.2 P 195 L 46 # 60 Darshan, Yair Mirosemi	Cl 145 SC 145.3.8.2.1 P 196 L 3 # 170 Thompson, Geoff GraCaSI S.A. GraCASI S.A. </th
Comment Type TR Comment Status D Autoclass In the text "PDs may also adjust their maximum required operating power below PClass_PD or PClass_PD-2P by using Autoclass (see 145.3.6.2)." . The Autoclass applies only for single-signature. Delete "or Pclass_PD-2P" SuggestedRemedy Change from: "PDs may also adjust their maximum required operating power below PClass_PD or PClass_PD-2P by using Autoclass (see 145.3.6.2)." . To "PDs may also adjust their maximum required operating power below PClass_PD or PClass_PD-2P by using Autoclass (see 145.3.6.2)." . To "PDs may also adjust their maximum required operating power below PClass PD by using Autoclass (see 145.3.6.2)."	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" Proposed text for P802.3bt/D2.5: "PD regarding actual link section DC resistance, the PD may consume greater" Proposed Response Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT IN PRINCIPLE.
Proposed Response Response Status W PROPOSED REJECT. PDs operating over 2 pairs can still use this feature.	(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. GraCaSI S.A. GraCaSI S.A. Image: Content of the second s	C/ 145 SC 145.3.8.2.1 P 196 L 8 # 172 Thompson, Geoff GraCaSI S.A. GraCaSI S.S.
Comment Type ER Comment Status 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"	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: "PD regarding actual link section DC resistance, the PD may consume greater"	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 Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. REF 204	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. REF 204

Pa **196** Li **8**

CI 145 SC	2 145.3.8.3	P 196	L 38	# 280	C/ 145 SC 145.3.8.4.1 P 198 L 12 # 281
Yseboodt, Lenna	art	Philips			Yseboodt, Lennart Philips
Comment Type	TR	Comment Status D		Editorial	Comment Type E Comment Status X PD Pow
is sufficient (C Port < 1 C Port < 3 C Port < 1	current to ch 80 mF for si 860 mF for si 10 mF for du 80 mF for du	current to I Inrush and I Inru arge C Port or C Port-2P to ngle-signature PDs assigne ngle-signature PDs assigned Jal-signature PDs assigned	V Port_PSE-2P d to Class 1 thro d to Class 7 or 8 to Class 1 throu	y when: bugh 6 3	"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.
		ly CFOIL-2F.			Clearly indicates this text needs to be a shall, but we alleady have that.
SuggestedReme Change CPo	-	2P for the last two lines in th	ie list.		Also, 'calculated over a 1 second interval' means the calculation takes 1 second. Not what is meant.
Proposed Respo	onse	Response Status W			SuggestedRemedy
PROPOSED	D ACCEPT.				Remove quoted text.
C/ 145 SC	2 145.3.8.4.1	P 198	L 4	# 173	Proposed Response Response Status W
Thompson, Geo		GraCaSI S.A.			TFTD, what was this text meant to do in the first place?
Comment Type	ER	Comment Status D		Channel	C/ 145 SC 145.3.8.6 P 198 L 24 # 127
		D2.4: "PD regarding actu	al channel DC r	esistance between the	Picard, Jean Texas Instruments
PSE PI and		n any"			Comment Type TR Comment Status D PD Pow
SuggestedReme	-				"A PD shall continue to operate without interruption in the presence of transients at the
Proposed te any"	ext for P802.3	bt/D2.5: "PD regarding ac	tual link section	i DC resistance, in	PSE PI as defined in 145.2.8.3."
any" Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. REF 204					This sentence does not make sense, since it refers to a transient to 0V at the PI. In reality the PSE cannot really short the PI voltage, all it can do is temporarily turn off its port (it's only a low side switch after all, with a 0.1uF cap). Also, if the voltage at the PI goes down to 0V or not at PSE PI is purely dependent on the PD configuration (load current, type of input bridge, etc), and should not be part of the
					requirement.
					SuggestedRemedy
					SuggestedRemedy Replace with:
					SuggestedRemedy Replace with: "A PD shall continue to operate without interruption while there is loss of power at PSE PI

Pa **198** Li **24**

C/ 145 SC 145.3.8.6 P 198 L 25 # 61 Darshan, Yair Mirosemi Mirosemi <td< th=""><th>Cl 145 SC 145.3.8.6 P 198 L 39 # 99 Johnson, Peter Sifos Technologies Sifos Technologies Sifos Technologies Sifos Technologies</th></td<>	Cl 145 SC 145.3.8.6 P 198 L 39 # 99 Johnson, Peter Sifos Technologies Sifos Technologies Sifos Technologies Sifos Technologies
Comment TypeTRComment StatusXPres: ????(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.	Comment Type E Comment Status D Editorial The sentence "Table 145–29 defines two PSE transient conditions and PD Types to which these apply" did not keep up with the fact that Table 145-29 no longer has PD Types in it. SuggestedRemedy
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 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	Change to "Table 145–29 defines two PSE output voltage transients and associated channel resistance conditions." Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Change to "Table 145–29 defines two PSE transient conditions." We are trying to remove "channel". TFTD, not crazy about text.
PD types and Cport values that "Intrinsically meet the requirements in this subclause". This is no longer true, because PDs can be demoted to an assigned class with different TLim and ILim characteristics.	C/ 145 SC 145.3.8.6 P 199 L 24 # 282 Yseboodt, Lennart Philips
SuggestedRemedy See Fred's suggested remedy. If not ready, keep it in TODO Proposed Response Response Status W WFP TFTD	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
IFID	Proposed Response Response Status W WFP TFTD

Pa **199** Li **24**

C/ 145	SC 145.3.8.7	P 200	L 13	# 143	C/ 145	SC ·	145.3.8.1	0	P 200	L 34	# 62	
Schindler, Fre	ed	Seen Simply	, Cisco, T		Darshan, Y	air			Mirosemi			
Comment Ty	pe TR	Comment Status D		PD Power	Comment	Гуре	TR	Comment S	Status D			Editoria
"NOTE— allowed b	-The worst-cas by Table 145–	changed normative text to se condition is when both PS 16 and Table 145–28, which ne standalone case as spec	SE and PD gene n may cause a hi	igher noise level to	the effe	ects of l on and	PD pair to measure	o pair voltage d	lifference and	s of RPD_min a the PD PI resist are wrong Anne	tive elements.	See
, which de-emphasized information that the reader should "pay special attention too". The wording is also suboptimal. SuggestedRemedy Change the note to normative text, "Note that the worst-case condition occurs when both PSE and PD generate the maximum					include effects definition	e from ' the of PD on and	, "See Figu pair to pa measure	ir voltage differ ments in Anne:	ence and the x 145A."	nces of RPD_m PD PI resistive	elements. See)
noise allo	owed by Table	se condition occurs when b 145–16 and Table 145–28, he standalone case as spec	which may cau	se a higher noise level to	effects	of PD on and	pair to pa measure		ence and the x 145A.4."	D_min and RPI PD PI resistive		
Proposed Re	esponse	Response Status W			PROP	OSED /	ACCEPT.					
PROPOS	SED REJECT.				C/ 145	<u> </u>	145.3.8.1	•	P 200	L 39	# 63	
		was made to make it stand e is no shall), it is only an ir			Darshan, Y		143.3.0.1	U	P 200 Mirosemi	L 39	# 63	
				-	Comment	Гуре	TR	Comment S	Status D		PD	Unbalanc
C/ 145 Yseboodt, Le	SC 145.3.8.8 ennart	P 200 Philips	L 17	# 283	unbala	nce req	luirement		ar which unba	lance requireme		be "PDs
Comment Ty		Comment Status D		Editorial			•	5–26) Intrinsica	ally meet all Pi	D unbalance rec	juirements.	
PD Physi	ical Layer clas	ction and a rising voltage tra s signature shall be valid wi d for the duration of the clas	ithin T Class_PD	D as specified in Table		e from '	'PDs that			insically meet u leet all PD unba		
		od' is ill defined. And sure er as no mark and this statem			Proposed F PROP		se REJECT.	Response S	tatus W			
SuggestedRe	emedy				Out of	Scope	for an edi	torial change.	The existing t	ext is clear.		
Class_P[D, the PD Phy	ction and a rising voltage tra rsical Layer class signature 28 and remain valid for the	shall be valid wi	thin T Class_PD as		Coope			ine enemige			
Proposed Re	esponse	Response Status W										
	SED ACCEPT											

Pa **200** Li **39**

C/ 145 SC 145.3.8.1 Darshan, Yair	0 P 201 Mirosemi	L 4	# 64	Cl 145 SC 145.3 Schindler, Fred	3.8.10	P 201 Seen Simply, (L 8 Cisco T	# 144
Comment Type ER	Comment Status D		Editorial	Comment Type ER	2 (Comment Status X	0.000, 1	Pres: Darshan
In the text "Figure 1454	A-1 illustrates the relationship ,", the figure number shold			Modified text,	-			
SuggestedRemedy Change from "Figure 1 effective resistances at To " In the text "Figure	45A–1 illustrates the relations " 145A–2 illustrates the relation	ship between R	PD_max and RPD_min	duty cycle, and sha when PD PI pairs o	all not ex of the sa	I not exceed ICon-2P-unb cceed IPeak-2P-unb, as do me polarity " purce of IPeak-2P-unb, wh	efined in Table	145–16 on any pair
RPD_min effective resistances at"				SuggestedRemedy				
Proposed Response PROPOSED ACCEPT.	Response Status W			Replace the called	d out text	with,		
Cl 145 SC 145.3.8.1 Darshan, Yair		L 8	# 65		all not ex	I not exceed ICon-2P-unb ceed IPeak-2P-unb, as de me polarity … "		
min and 5 % duty cycle on any pair when PD P 1) IPeak-2P-unb is not 2) Equation 145-12 bel is not the maximum lpe designed to the maxim the fact that the PD do knowledge of PSE voltz minimum voltage which As a result of the abovy 2P_unb and Ipeak-2P_ values that are a functi march for the commen	Comment Status X ature PDs shall not exceed IC a, and shall not exceed IPeak I pairs", there are few prot defined in Table 145-16. It is ongs to PSE section and set eak-2P_unb since it depends um Ipeak-2P_unb (and also t esn't control the actual Ipeak- age and more important, they will create the maximum poi e arguments we need to defir un i.e. Icon_PD-2P_unb and on of PD parameters only (as t #320 from D2.3 (see ysebo ated the new Equation #145-2	-2P-unb, as def olems that make defined by Equ the actual Ipea on PSE voltage o the maximum -2P-unb since it v can be connect ssible current. he new PD para Ipeak_PD-2P_ we did per the odt_08_0315_p	fined in Table 145–16 es the spec broken: Jation 145-12. k-2P_unb current which e. PDs must be n Icon-2P_unb) due to t doesn't have the cted to PSE with the ameters name to Icon- unb with fixed maximum concept we adopt on beakunbalance.pdf	Proposed Response WFP TFTD	R	Pesponse Status W		
SuggestedRemedy								
Adopt darshan_04_051	7.pdf							
Proposed Response WFP	Response Status W							

TFTD

Pa **201** Li **8**

C/ 145 SC 145.3.8.10 Darshan, Yair	P 201 Mirosemi	L 12	# 66	C/ 145 Yseboodt,	SC 145.3.8.10 Lennart	P 201 Philips	L 24	# 284	
Comment Type T TODO #321 D2.3	Comment Status D		PD Unbalance	<i>Comment</i> Equat	51	Comment Status D 5-29 do not have a variable I	ist below.	Editorial	
	ment was: "ACCEPT IN P th DS unbalance (Icon-2p)]."			Suggested Fix.	dRemedy				
Comment #321 from D2.	on item (Agreed by Lennar 3 has been resolved comp		owing adopted		Response POSED ACCEPT.	Response Status W			
baselines: 1) yseboodt 08 0317.pd	f adopted per comment #3	20. It also addre	essing comment #321	C/ 145	SC 145.3.8.10	P 201	L 34	# 174	
D2.3 (145.3.8.10 text lco	n_pd-2P=Pclass_PD-2P/V	pd)	0	Thompsor	n, Geoff	GraCaSI S.A.			
	al.pdf per comment 167 reg			Comment	Type ER	Comment Status D		Channel	
145.3.8.2 and 145.3.8.4 which also addresses some of the concerns that I had in darshan_12 per comment #164 D2.3 and was withdrawn by me with the agreement per this action item to check the integrity of the proposal in darshan_12 with comment #321 THAT WAS ALREADY ADRESSED BY COMMENT #320 D2.3. In fact Comment #321 D2.3 should have been OBE by comment #320 D2.3 and the subject of this action item should				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"					
have been: To check if da does.	arshan_12 is covered by da	arshan_09 and y	/seboodt_08 which it	Suggested	dRemedy				
SuggestedRemedy No change to the spec is	•			sectio RPD_	n.) "Table 145–	3bt/D2.5: (The solution provid 16, the link section resistanc f system end-to-end unbalan	e, and influence	e of RPD_min and	
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed	Response	Response Status W			
PROPOSED ACCEPT.				,	POSED ACCEPT	,			
C/ 145 SC 145.3.8.10 Darshan, Yair	P 201 Mirosemi	L 13	# 67	REF 2	204				
Comment Type ER	Comment Status D		Editorial	C/ 145	SC 145.3.8.10	P 201	L 39	# 107	
	e PDs shall not exceed ICc			Jones, Ch	ad	Cisco			
(145–28) for longer than and shall not exceed loss	TCUT-2P min and 5 % dut ak_PD-2P on any pair'	y cycle, as defin	ed in Table 145–16,	Comment	Туре Е	Comment Status D		Unbalance	
		, missing relete				, RPD_max ensures that alor			
SuggestedRemedy Change to "Dual-signature PDs shall not exceed ICon_PD-2P as defined in Equation (145–28) for longer than TCUT-2P min and 5 % duty cycle, as defined in Table 145–16,				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.					
	ak_PD-2P, as defined in E	quaton (145-29)	, on any pair"	Suggestee	dRemedy				
Proposed Response PROPOSED ACCEPT.	Response Status W			chann pair ci	iel (cables and cor urrent including ur	d RPD_max, along with any nectors) and the PSE, boun balance does not exceed ICo conditions. See Annex 145A	ds the current s on-2P-unb as d	such that the maximum	
					_				

Proposed Response Response Status W

PROPOSED ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general r	required T/technical E/editorial G/general	Pa 201	Page 56 of 71
COMMENT STATUS: D/dispatched A/accepted R/rejected R	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	Li 39	4/28/2017 2:15:40 PM

SORT ORDER: Page, Line

C/ 145 SC 145.3.8.10 P 201 L 39 # 175 Thompson, Geoff GraCaSI S.A. GraCaSI S.S. <	C/ 145 SC 145.3.9 P 202 L 42 # 28 Yseboodt, Lennart Philips	
Comment Type ER Comment Status D Channel	Comment Type T Comment Status D	PD MPS
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,	"PDs that detect a long first class event in the range of T LCE_PD may reduce T in order to draw a lower standby MPS power."	MPS_PD
SuggestedRemedy Proposed text for P802.3bt/D2.5: RPD_min, RPD_max ensures that along with any other	Reduce it compared to what? This may be interpreted as reducing it below what by the table.	it allowed
parts of the system, i.e., the link section and the PSE,	SuggestedRemedy	
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	"PDs that detect a long first class event in the range of T LCE_PD may use the s MPS_PD in order to draw a lower standby MPS power."	horter T
REF 204	Proposed Response Response Status W PROPOSED ACCEPT.	
C/ 145 SC 145.3.10 P 202 L 33 # 156		
Stewart, Heath Analog Devices	C/ 145 SC 145.3.9 P 203 L 10 # 40)
Comment Type ER Comment Status D PD MPS	Beia, Christian ST Microelectronics	
"measured at the PD PI" was originally inserted due to repeated attempts to deflate the MPS requirement. This phrase was specifically introduced to ensure that the MPS requirements were _explicitly_ referenced to the PD PI. Obviously the entire standard is enforced at the PD PI, however we strongly feel the standard will be weakened by accepting the removal of the "measured at the PD PI" in these two instances (lines 33, 36). Example for line 33 For single-signature PDs the MPS shall consist of current draw equal to or above IPort_MPS for a minimum duration of TMPS_PD followed by an optional MPS dropout for no longer than TMPDO_PD.	Comment Type T Comment Status D Assigned Class has values from 1 to 8 In Table 145-31 Item 1 the assigned Class can be 0 SuggestedRemedy Change: "Class 0 to 4" To: "Class 1 to 4"	PD MPS
SuggestedRemedy	Proposed Response Response Status W	
Revoke removal of "measured at the PD PI" on lines 33 and 36 just prior to "followed by an optional MPS dropout".	PROPOSED ACCEPT.	
Proposed Response	C/ 145 SC 145.4.1 P 204 L 16 # 24	40
PROPOSED REJECT.	Walker, Dylan Cisco	
This was removed because it directly contradicts the statement on line 46 that TMPS_PD needs to have the worst-case cable resistance between the PD PI and the measurement point.	Comment Type TR Comment Status Y Pressure Need to add the pertinent subclause for IEC 62368-1. (D2.3 TODO - Comment #332) SuggestedRemedy SuggestedRemedy See "Walker_1_0517_rev_4.pdf" See "Walker_1_0517_rev_4.pdf"	res: Walker1
	Proposed Response Response Status W WFP	
	TFTD	
TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/g COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/w SORT ORDER: Page, Line		e 57 of 71 3/2017 2:15:40

<i>Cl</i> 145 <i>SC</i> 145.4.1 Peker, Arkadiy	P 204 Mirosemi	L 16	# 121	Cl 145 SC 145.4.1 Darshan, Yair	P 204 Mirosemi	L 16	# 68
Comment Type E	Comment Status X		Pres: Peker1	Comment Type ER	Comment Status X		Pres: Peker1
60950-1 and IEC 62368 not specify similar IEC6	external conductors are spec 8-1.", standard specifies IEC 52368-1 subclause. ould add subclause of IEC62	60950-1 subcl		60950-1 and IEC 623 not specify similar IE	e external conductors are spec 688-1.", standard specifies IEC C62368-1 subclause. should add subclause of IEC62	60950-1 subcla	
SuggestedRemedy Adopt Arkadiy_01_051	7.pdf			SuggestedRemedy Adopt Arkadiy_01_0	517.pdf		
Proposed Response WFP	Response Status W			Proposed Response WFP	Response Status W		
TFTD				TFTD			
C/ 145 SC 145.4.1	P 204	L 16	# 122	C/ 145 SC 145.4.1	P 204	L 16	# 69
Peker, Arkadiy	Mirosemi			Darshan, Yair	Mirosemi		
Comment Type E	Comment Status X		Pres: Peker1	Comment Type ER	Comment Status X		Pres: Peker1
60950-1 and IEC 62368 (which will be withdraw	external conductors are spec 8-1.", the 802.3bt requires to n by the end of 2018) and IE need to satisfy just one of thi	meet both stand C 62368-1. Fro	dards IEC60950-1 m a safety point of	60950-1 and IEC 623 (which will be withdra	e external conductors are spec 868-1.", the 802.3bt requires to wn by the end of 2018) and IE m need to satisfy just one of th	meet both stand C 62368-1. Froi	ards IEC60950-1 m a safety point of
SuggestedRemedy				SuggestedRemedy			
Adopt Arkadiy_01_051	7.pdf			Adopt Arkadiy_01_0	517.pdf		
Proposed Response	Response Status W			Proposed Response	Response Status W		
WFP				WFP			

	L 18 # 70	C/ 145	SC 145.4.1	P 204	L 18	# 123
Darshan, Yair Mirosemi		Peker, Arkad	liy	Mirosemi		
Comment Type TR Comment Status X	Pres: Peker1	Comment Ty	rpe T	Comment Status X		Pres: Peker
In the text "This electrical isolation shall withstand at leas strength tests:", there is an ambiguity in current IEEE 80 electrical isolation. Customers may argue (and we have many such cases) the electrical isolation requirements but does not meet IEEE8 IEEE802.3 requirements are more stringent than UL/IEC protective components as it allowed in IEC 60950-1 5.2. "NOTE 4 Components providing a d.c. path in parallel with as discharge resistor for filter capacitors, voltage limiting should be disconnected." The requirements which allow to remove components as IEEE specs or at least IEEE802.3bt should have clear in IEC60950 or IEC62368.	22.3bt requirements for hat a product meet UL/IEC 302.3. Customers believes that and does not allow to remove .2 Note 4 as follows: th the insulation to be tested, such devices or surge suppressors, s in Note 4 should be added to	strength electrica Custome electrica IEEE802 protectiv "NOTE 4 as disch should b The requ IEEE sp	tests:", there I isolation. ers may argue I isolation requ 2.3 requirements Components arge resistor f e disconnecte uirements whi	ch allow to remove components IEEE802.3bt should have	EE 802.3bt red ses) that a produces (EEE802.3. Cur /IEC and does 1 5.2.2 Note 4 a lel with the insul niting devices or ents as in Note 4	uct meet UL/IEC stomers believes that not allow to remove as follows: ation to be tested, such surge suppressors,
SuggestedRemedy		SuggestedR	emedy			
Adopt Arkadiy_01_0517.pdf		Adopt A	rkadiy_01_051	7.pdf		
Proposed Response Response Status W		Proposed Re	esponse	Response Status W		
WFP		WFP				
TFTD		TFTD				
		C/ 145	SC 145.4.1	P 204	L 20	# 241
		Walker, Dyla		Cisco		
		Comment Ty		Comment Status X		Pres: Walker1
			ing the gun to se for IEC 623	require IEC 62368-1 complia 68-1.	nce. Also, need	to add the pertinent
		(D2.3 TC	DO - Comme	ent #332)		
		SuggestedR	emedy			
		See "Wa	alker_1_0517_	_rev_4.pdf"		
		Proposed Re	esponse	Response Status W		
		WFP				
		TFTD				

C/ 145 SC 145.4.1	P 204	L 22	# 242	Cl 145 SC 145.4.1 P 204 L 27 # 124
Walker, Dylan	Cisco			Peker, Arkadiy Mirosemi
Comment Type TR	Comment Status X		Pres: Walker1	Comment Type T Comment Status X Pres: Peker
It's jumping the gun to subclause for IEC 623 (D2.3 TODO - Comme		nce. Also, need t	to add the pertinent	IIEEE802.3bt has following compliance criteria for the electrical stength test: "There shall be no insulation breakdown, as defined in subclause 5.2.2 of IEC 60950-1 and IEC 62368-1, during the test. The resistance after the test shall be at least 2 M ohm, measured at 500 V dc". This compliance criteria aplies for a) and b) and c) electrical test procedures.
,	HII #332)			However a) and b) compliance requirements are different than for c) impulse test.
SuggestedRemedy See "Walker 1 0517	rov 4 pdf"			Requirements a) and b) compliance criteria per paragraph 5.2.2 IEC60950:
				"There shall not be insulation breakdown during test. Insulation breakdown is considered to have occurred when the current that flows as a result of the application of the test
Proposed Response WFP	Response Status W			voltage rapidly increases in an uncontrolled manner, that is the insulation does not restrict the flow of current".
TFTD				For requirements c): per paragraph 6.2.23 IEC60950-1:
	P 204	L 23	# 243	"For impulse tests, damage to insulation is verified in one of two ways, as follows:
Walker, Dylan	Cisco	L 23	# 243	 – during the application of the impulses, by observation of oscillograms. Surge suppressor operation or breakdown through insulation is judged from the shape of an oscillogram.
Comment Type TR	Comment Status X require IEC 62368-1 complia	nce. Also, need t	Pres: Walker1 to add the pertinent	– after application of all the impulses, by an insulation resistance test. Disconnection of surge suppressors is permitted while insulation resistance is being measured. The test voltage is 500 V d.c. or, if surge suppressors are left in place, a d.c. test voltage that is 10 % less than the surge suppressor operating or striking voltage. The insulation
(D2.3 TODO - Comme	ent #332)			resistance shall not be less than 2 M Ω ."
SuggestedRemedy See "Walker_1_0517_	_rev_4.pdf"			Therefore IEEE requirements that" The resistance after the test shall be at least 2 Mohm, measured at 500 V dc" referring just to impulse test c) and not to steady stay tests a) and b). Therefore compliance critea should be removed at all from IEEE802.3bt or it need to
Proposed Response WFP	Response Status W			be specify correctly for case a) and b) and separately to case c) according to requirements of IEC60950 or IEC62368.
				SuggestedRemedy
TFTD				Adopt Arkadiy_01_0517.pdf
				Proposed Response Response Status W WFP
				TFTD

C/ 145 SC 145.4.1 P 204 L 27 # 71 Darshan, Yair Mirosemi M	<i>Cl</i> 145 <i>SC</i> 145.4.1 Peker, Arkadiy	P 204 Mirosemi	L 27 # 125	
Comment Type TR Comment Status X Pres: Peker1	Comment Type E	Comment Status X	Pres:	: Peker
IIEEE802.3bt has following compliance criteria for the electrical stength test: "There shall be no insulation breakdown, as defined in subclause 5.2.2 of IEC 60950-1 and IEC 62368-1, during the test. The resistance after the test shall be at least 2 M ohm, measured at 500 V dc". This compliance criteria aplies for a) and b) and c) electrical test procedures. However a) and b) compliance requirements are different than for c) impulse test. Requirements a) and b) compliance criteria per paragraph 5.2.2 IEC60950: "There shall not be insulation breakdown during test. Insulation breakdown is considered to have occurred when the current that flows as a result of the application of the test voltage rapidly increases in an uncontrolled manner, that is the insulation does not restrict the flow of current".	60950-1 and IEC 623 M ohm, measured at specify similar IEC623 of IEC62368-1. Therefore in IEEE 802 "IEC60950-1 or IEC6	.pdf for more issues about this te	nce after the test shall be at lea 1 subclause 5.2.2 but does not y , we should add subclause 5 IEC60950-1 and IEC62368-1: t	east 2 ot 5.4.9.2
For requirements c): per paragraph 6.2.23 IEC60950-1: "For impulse tests, damage to insulation is verified in one of two ways, as follows: – during the application of the impulses, by observation of oscillograms. Surge suppressor	Proposed Response WFP	Response Status W		
operation or breakdown through insulation is judged from the shape of an oscillogram. – after application of all the impulses, by an insulation resistance test. Disconnection of	TFTD			
surge suppressors is permitted while insulation resistance is being measured. The test voltage is 500 V d.c. or, if surge suppressors are left in place, a d.c. test voltage that is 10 % less than the surge suppressor operating or striking voltage. The insulation	<i>Cl</i> 145 <i>SC</i> 145.4.1 Walker, Dylan	P 204 Cisco	L 27 # 244	
resistance shall not be less than 2 MΩ."	Comment Type TR	Comment Status X	Pres:	Walker
Therefore IEEE requirements that" The resistance after the test shall be at least 2 Mohm , measured at 500 V dc" referring just to impulse test c) and not to steady stay tests a) and	It's jumping the gun to subclause for IEC 623	o require IEC 62368-1 compliance 368-1.	 Also, need to add the pertine 	ent
b). Therefore compliance critea should be removed at all from IEEE802.3bt or it need to be specify correctly for case a) and b) and separately to case c) according to	(D2.3 TODO - Comm	ent #332)		
requirements of IEC60950 or IEC62368.	SuggestedRemedy			
SuggestedRemedy	See "Walker_1_0517	_rev_4.pdf"		
Adopt Arkadiy_01_0517.pdf	Proposed Response	Response Status W		
Proposed Response Response Status W	WFP			
WFP	TFTD			
TFTD				

C/ 145 SC 145.4.1 P 204 L 27 # 72 Darshan, Yair Mirosemi	C/ 145 SC 145.4.4 P 207 L 33 # 303 Zimmerman, George CME Consulting/Aqua
Comment Type ER Comment Status X Pres: Peker1 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.	Comment Type T Comment Status D AES Table 145-34 is inconsistent with new table 33-19b and has incorrect bandwidths for 5G and 10GBASE-T. SuggestedRemedy Change upper frequency for 5G to 250 MHz and 10G to 500 MHz Proposed Response Response Status W PROPOSED ACCEPT. V V V V
SuggestedRemedy Adopt arkadiy_01_0517.pdf.	Cl 145 SC 145.4.7 P 210 L 7 # 309 Zimmerman, George CME Consulting/Agua
Proposed Response Response Status W WFP TFTD	Comment Type TR Comment Status D AES "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 include references and requirements for higher speed PHYs (2.5G, 5G, 10G).
Cl 145 SC 145.4.1.1.2 P 205 L 19 # 245 Walker, Dylan Cisco Cisco Pres: Walker1 Comment Type ER Comment Status X Pres: Walker1 "Guidance on these requirements may be found in Section 6 of IEC 60950-1 and IEC 62368-1, as well as any local and national codes related to safety." Pres: Walker1	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, 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." Proposed Response Response Status W PROPOSED ACCEPT.
Sentence can be slightly modified to clarify that the reference to "Section 6" only applies to IEC 60950-1.	C/ 145 SC 145.4.8 P 210 L 16 # 176 Thompson, Geoff GraCaSI S.A. GraCaSI S.A.
(D2.3 TODO - Comment #332) SuggestedRemedy See "Walker_1_0517_rev_4.pdf" Proposed Response Response Status W WFP TFTD	Comment Type ER Comment Status D Channel Current text in P802.3bt/D2.4: "100BASE-TX shall enforce channel intra-pair current unbalance (see 145A.1)" SuggestedRemedy Proposed text for P802.3bt/D2.5: "100BASE-TX shall enforce link section intra-pair current unbalance (see 145A.1)" Proposed text for P802.3bt/D2.5: "100BASE-TX shall enforce link section intra-pair current unbalance (see 145A.1)" Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT IN PRINCIPLE.
	REF 204

Pa **210** Li **16** C/ 145 SC 145.4.9 P 211 L 4 # 177 C/ 145 P 215 L 41 # 108 SC 145.4.9.1.7 Thompson, Geoff GraCaSI S.A. Jones, Chad Cisco Comment Type ER Comment Status X Channel Comment Type E Comment Status D Current text in P802.3bt/D2.4: (Text and figure are unnecessary and confusing) #ABSOLUTE To ensure the total alien NEXT loss and alien FEXT loss coupled between link segments is limited, multiple disturber alien SuggestedRemedy near-end crosstalk (MDANEXT) loss and multiple disturber alien FEXT (MDAFEXT) loss is Proposed text for P802.3bt/D2.5: Delete cl. 145.4.9 and Figure 145-38 specified. Proposed Response SuggestedRemedy Response Status W TFTD 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 145.4.9 P 212 L 51 # 178 GraCaSI S.A. Thompson, Geoff Proposed Response Response Status W PROPOSED ACCEPT. Comment Type Comment Status D ER Channel Current text in P802.3bt/D2.4: ...cabling channel shall... SuggestedRemedy Proposed text for P802.3bt/D2.5: ...cabling "channel" shall... Proposed Response Response Status W PROPOSED ACCEPT. P 213 C/ 145 SC 145.4.9 L 1 # 179 GraCaSI S.A. Thompson, Geoff Comment Type ER Comment Status D Channel Current text in P802.3bt/D2.4: The requirements for the two pair Category 5 channel are found in 25.4.9. (Not true, it is the "link segment" which is defined) SuggestedRemedy Proposed text for P802.3bt/D2.5: The requirements for the two pair Category 5 link segment for 100BASE-Tx are found in 25.4.9. Specification of 4-pair cabling is beyond the scope of cl. 25. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.

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

REF 204

Pa **215** Li **41**

Cl 145 SC 145.5.3.2 P 218 L 41 # 145 Schindler, Fred Seen Simply, Cisco, T Three attributes are listed in green font that should be located in clause 30 of our amended document. DLL	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 aLldpXdot3LocReady	Proposed Response Response Status W TFTD, needs review.
page 227 aLldpXdot3LocReadyA aLldpXdot3LocReadyB	Cl 145SC 145.5.3.2P 219L 1#146Schindler, FredSeen Simply, Cisco, TEditorialComment TypeERComment StatusDEditorial
A solution is provide below and should be reviewed by participants to improve the text before submission.	Table 145-39 is split over two pages and this needs to be made clear on the second page. SuggestedRemedy
SuggestedRemedy	Modify the second table heading to add "(continued)" at the end of the title.
Related cross references to these variables also need to be fixed.	
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 145.5.3 P 219 L 31 # 286 Yseboodt, Lennart Philips
PReadyPD PD BEHAVIOUR DEFINED AS:	Comment Type ER Comment Status D Editorial During the splitting of the DLL variable sections, several subclauses became empty.
A read-only implementation-specific value used to indicate whether the Data Link Layer classification has been initialized by the by the local system.; 30.xxx aLldpXdot3LocReadyA ATTRIBUTE	SuggestedRemedy Delete: - 145.5.3.3.1 - 145.5.3.6.1 - 145.5.3.6.3
APPROPRIATE SYNTAX: 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 A for a PSE, or for Mode A for a PD.;	Proposed Response Response Status W PROPOSED ACCEPT.
30.xxx aLldpXdot3LocReadyB ATTRIBUTE APPROPRIATE SYNTAX:	
TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W SORT ORDER: Page, Line	

Cl 145 SC 145.5.3 Darshan, Yair	.3.2 <i>P</i> 219 Mirosemi	L 31	# 73	Cl 145 SC 145.5.3.6.2 P 228 L 30 # 75 Darshan, Yair Mirosemi
Comment Type TR	Comment Status D		DLL	Comment Type TR Comment Status D DLL
pse_power_update va list in the PSE section.	ariable is used by the state ma	ichine but is mis		The text "The PSE power control state diagram (Figure 145–41) uses "_alt(X)", which is defined in 145.3.3, and the following variables:" was not in the approved baseline from March 2017 (darshan_03_0317Rev007F.pdf) but we need it for the introduction of this term. The problem is that "_alt(X)" is not defined in 145.3.3.
SuggestedRemedy	a nowar undata from			SuggestedRemedy
145.2.5.4 into 145.5.3	e_power_update from 3.3.2			Change from "The PSE power control state diagram (Figure 145–41) uses "_alt(X)", which
Proposed Response	Response Status W			is defined in 145.3.3, and the following variables:"
PROPOSED ACCEP				To: "Dual-signature PSEs shall provide the behavior of the state diagram shown in Figure
Copy with editorial lic	ense as reference to Figure is	not needed.		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
C/ 145 SC 145.5.3	.4.5 P 227	L 18	# 287	be "A" or "B". A parameter that ends with the suffix "_alt(X)" may have different values for Alternative A and Alternative B."
Yseboodt, Lennart	Philips			Proposed Response Response Status W
Comment Type E	Comment Status D		Editorial	PROPOSED ACCEPT IN PRINCIPLE.
SuggestedRemedy Fix. Proposed Response PROPOSED ACCEP	e 145-44 at the bottom of the <i>Response Status</i> W T.			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
C/ 145 SC 145.5.3	.6.2 <i>P</i> 228	L 26	# 74	be "A" or "B". A parameter that ends with the suffix "_alt(X)" may have different values for Alternative A and Alternative B."
Darshan, Yair	.o.z F 220 Mirosemi	L 20	# 14	
Comment Type TR	Comment Status X		Pres: Darshan2	C/ 145 SC 145.5.3.6.2 P 229 L 18 # 76
51	alt(X) variable is used by the st	ate machine but		Darshan, Yair Mirosemi
	3.6.2. We do have pse_power_ sec that do it but we may need		m from _pri and _sec	Comment Type E Comment Status D DLL The text "When a PD mode is not active, the value shall be set to zero." was not in the baseline in darshan_03_0317
SuggestedRemedy				SuggestedRemedy
Adopt darshan 02 0	517.pdf			Remove "When a PD mode is not active, the value shall be set to zero."
Proposed Response	Response Status W			Proposed Response Response Status W
WFP				PROPOSED ACCEPT.
TETD				

TFTD

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: Page, Line

Pa **229** Li **18**

2/ 145 SC 145.5.3.6.2 <i>P</i> 229 <i>L</i> 34 # Darshan, Yair Mirosemi	ŧ 77	C/ 145 SC 145.5.3 Darshan, Yair	3.7.2	P 233 Mirosemi	L 29	# 79	
comment Type TR Comment Status X	Pres: Darshan1	Comment Type TR	Commei	nt Status X		Pres: Da	arshan
In the text "pse_dll_ready_alt(X) An implementation-specific control variable that the PSE has initialized Data Link Layer classification. This variable map aLldpXdot3LocReady attribute (30.12.2.1.20)." there are few updates need 1) the aLldpXdot3LocReady need to be "aLldpXdot3LocReadyA and aLldpXdot3LocReadyB" (they are already used in the DLL state machine an variable list. 2) The aLldpXdot3LocReadyA and aLldpXdot3LocReadyB are not defined in 3) The aLldpXdot3LocReadyA, aLldpXdot3LocReadyB are not included in T 4. The link for 30.12.2.1.20 is correct for aLldpXdot3LocReady which is used signature DLL state machine and is incorrect for the dual-signature DLL state SuggestedRemedy	os into the d to be made: nd exist in the n clause 30. Table 30-7. d for single-	In the text" pd_dll_re indicates that the PE variable maps into th updates need to be 1) the aLldpXdot3LocRead variable list. 2) The aLldpXdot3Lo 3) The aLldpXdot3Lo 4. The link for 30.12. signature DLL and is) has initialized ne aLldpXdot3l made: pcReady need yB" (they are a pcReadyA and pcReadyA, aLl .2.1.20 is corre	d Data Link Layer LocReady attribut to be "aLldpXdot3 already used in th aLldpXdot3LocR dpXdot3LocRead ect for aLldpXdot3	classification for e (30.12.2.1.20) 3LocReadyA and e DLL state mad eadyB are not d byB are not includ 8LocReady which	r mode(X). This ." there are few d chine and exist in t efined in clause 30 ded in Table 30-7.	60.
Adopt darshan_01_0517.pdf		SuggestedRemedy		-			
TFTD		Adopt darshan_01_0 Proposed Response WFP		e Status W			
© 145 SC 145.5.3.6.5 P 231 L 51 #	ŧ 78	TFTD					
arshan, Yair Mirosemi		C/ 145 SC 145.5.3	3.7.5	P 234	L 51	# 80	
omment Type TR Comment Status X	DLL	Darshan, Yair		Mirosemi			
The changes for the title of figure 145-45 was not implemented per darshan_03_0317Rev007F.pdf		Comment Type T The changes for the	title of figure 1	<i>nt Status</i> X 145-46 was not im	plemented per		DLL
uggestedRemedy		darshan_03_0317Re	ev007F.pdf				
Change from "Figure 145—45—PSE power control state diagram when conr signature PD" To "Figure 145—45—PSE power control state diagram Alternative (X) when		SuggestedRemedy Change from "Figure To "Figure 145–46–					
dual-signature PD mode (X)"		Proposed Response	Response	e Status 🛛 🛛 🛛 🛛 🛛 🖉			
roposed Response Response Status W		TFTD					
TFTD		Waiting for outcome	of 78				
That new title is quite confusing.		0					

Pa **234** Li **51**

<i>Cl</i> 145 <i>SC</i> 145.5.4 Schindler, Fred	P 236 Seen Simply,	<i>L</i> 28 Cisco, T	# 147	Cl 145 SC 145.7.3.3 Beia, Christian		P 256 Microelectro	L 6 onics	# 38
Comment Type ER	Comment Status D		Editorial	Comment Type T	Comment Statu	us D		PIC
Legacy text and new te				In Item PD69 is used a de	efinition of PDs a	assigned Cla	iss, but refers	to PDs request Class
5	escribe the behavior above.", and can be made more specif	ic by point to the	e appropriate state	SuggestedRemedy				
diagrams.				Change:				
SuggestedRemedy				"Pair-to-pair unbalance fo signature PDs assigned	or single-			
	t on page 235, Line 28, replac Figures 145-41 and Figure 1		the behavior above."	Class 5 or higher" To:				
	t on page 236, Line 50, replac I Figures 145-45 and Figure 1		the behavior above."	"Pair-to-pair unbalance fo signature PDs required Class 5 or higher"	or single-			
Proposed Response	Response Status W			Proposed Response	Response Statu	ıs W		
PROPOSED ACCEPT				PROPOSED ACCEPT IN	N PRINCIPLE.			
C/ 145 SC 145.6.1 Walker, Dylan	P 238 Cisco	L 19	# 239	Why is this dependent or	n class at all? Th	he shall in 14	15.3.8.10 is no	ot.
	01300			Change:				
			Due e 14/e llee ut					
Comment Type TR	Comment Status X		Pres: Walker1	"Pair-to-pair unbalance fo	or single-			
Comment Type TR To be consistent with o	Comment Status X other references to safety stat onform to IEC 62368-1, but it		andard, we should	"Pair-to-pair unbalance fo signature PDs assigned Class 5 or higher" To:	-			
Comment Type TR To be consistent with o provide the option to c	other references to safety star onform to IEC 62368-1, but it		andard, we should	"Pair-to-pair unbalance fo signature PDs assigned Class 5 or higher"	-			
Comment Type TR To be consistent with o provide the option to c 1 compliance. (D2.3 TODO - Comme	other references to safety star onform to IEC 62368-1, but it		andard, we should	"Pair-to-pair unbalance fo signature PDs assigned Class 5 or higher" To: "Pair-to-pair unbalance fo	or single-	⁻ 262	L 19	# 246
Comment Type TR To be consistent with o provide the option to c 1 compliance. (D2.3 TODO - Comme	other references to safety star onform to IEC 62368-1, but it		andard, we should	"Pair-to-pair unbalance for signature PDs assigned Class 5 or higher" To: "Pair-to-pair unbalance for signature PDs"	or single-	-	L 19	# 246
Comment Type TR To be consistent with or provide the option to co 1 compliance. (D2.3 TODO - Comme SuggestedRemedy See "Walker_1_0517_	other references to safety star onform to IEC 62368-1, but it		andard, we should	"Pair-to-pair unbalance for signature PDs assigned Class 5 or higher" To: "Pair-to-pair unbalance for signature PDs" C/ 145 SC 145.7.3.8	or single-	SCO	L 19	# 246 Pres: Walker
Comment Type TR To be consistent with or provide the option to con- 1 compliance. (D2.3 TODO - Comme SuggestedRemedy See "Walker_1_0517_	other references to safety star onform to IEC 62368-1, but it ent #332) rev_4.pdf"		andard, we should	"Pair-to-pair unbalance for signature PDs assigned Class 5 or higher" To: "Pair-to-pair unbalance for signature PDs" C/ 145 SC 145.7.3.8 Walker, Dylan	or single- F Cis Comment State	sco us X	-	Pres: Walker
Comment Type TR To be consistent with o provide the option to c 1 compliance. (D2.3 TODO - Comme SuggestedRemedy See "Walker_1_0517_ Proposed Response	other references to safety star onform to IEC 62368-1, but it ent #332) rev_4.pdf"		andard, we should	"Pair-to-pair unbalance for signature PDs assigned Class 5 or higher" To: "Pair-to-pair unbalance for signature PDs" C/ 145 SC 145.7.3.8 Walker, Dylan Comment Type TR	or single- F Cis Comment Statu pdated to include	sco us X	-	Pres: Walker
Comment Type TR To be consistent with o provide the option to con- 1 compliance. (D2.3 TODO - Comme SuggestedRemedy See "Walker_1_0517_ Proposed Response WFP TFTD	other references to safety star onform to IEC 62368-1, but it ent #332) rev_4.pdf" <i>Response Status</i> W	's jumping the g	andard, we should un to require IEC 62368-	"Pair-to-pair unbalance for signature PDs assigned Class 5 or higher" To: "Pair-to-pair unbalance for signature PDs" CI 145 SC 145.7.3.8 Walker, Dylan Comment Type TR PICS ES1 needs to be up (D2.3 TODO - Comment	or single- F Cis Comment Statu pdated to include	sco us X	-	Pres: Walker
Comment Type TR To be consistent with o provide the option to c 1 compliance. (D2.3 TODO - Comme SuggestedRemedy See "Walker_1_0517_ Proposed Response WFP	other references to safety star onform to IEC 62368-1, but it ent #332) rev_4.pdf"		andard, we should	 "Pair-to-pair unbalance for signature PDs assigned Class 5 or higher" To: "Pair-to-pair unbalance for signature PDs" C/ 145 SC 145.7.3.8 Walker, Dylan Comment Type TR PICS ES1 needs to be up 	pr single- F Cis Comment State pdated to include #332)	sco us X	-	Pres: Walker
Comment Type TR To be consistent with o provide the option to con- 1 compliance. (D2.3 TODO - Commend SuggestedRemedy See "Walker_1_0517_ Proposed Response WFP TFTD C/ 145 SC 145.7 Yseboodt, Lennart Comment Type ER	other references to safety star onform to IEC 62368-1, but it ent #332) rev_4.pdf" <i>Response Status</i> W	's jumping the g	andard, we should un to require IEC 62368- # 288 Editorial	 "Pair-to-pair unbalance for signature PDs assigned Class 5 or higher" To: "Pair-to-pair unbalance for signature PDs" C/ 145 SC 145.7.3.8 Walker, Dylan Comment Type TR PICS ES1 needs to be up (D2.3 TODO - Comment SuggestedRemedy See "Walker_1_0517_rev 	pr single- F Cis Comment State pdated to include #332)	sco us X e the option f	-	Pres: Walker
Comment Type TR To be consistent with o provide the option to co 1 compliance. (D2.3 TODO - Comme SuggestedRemedy See "Walker_1_0517_ Proposed Response WFP TFTD Cl 145 SC 145.7 Yseboodt, Lennart Comment Type ER	other references to safety star onform to IEC 62368-1, but it ent #332) rev_4.pdf" <i>Response Status</i> W <i>P</i> 240 Philips <i>Comment Status</i> D	's jumping the g	andard, we should un to require IEC 62368- # 288 Editorial	"Pair-to-pair unbalance for signature PDs assigned Class 5 or higher" To: "Pair-to-pair unbalance for signature PDs" <i>Cl</i> 145 SC 145.7.3.8 Walker, Dylan <i>Comment Type</i> TR PICS ES1 needs to be up (D2.3 TODO - Comment <i>SuggestedRemedy</i> See "Walker_1_0517_rev <i>Proposed Response</i>	F Cis Comment State pdated to include #332) v_4.pdf"	sco us X e the option f	-	Pres: Walker

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: Page, Line

Pa **262** Li **19** Page 67 of 71 4/28/2017 2:15:40 PM

<i>Cl</i> 145 SC 145 Walker, Dylan	.7.3.8	<i>P</i> 262 Cisco	L 38	# 247	C/ 145 Thompson	SC 145.A.2 , Geoff	P 265 GraCaSI	L 27 S.A.	# 181
accordance with (D2.3 TODO - Co SuggestedRemedy	eeds to be update IEC 62368-1. omment #332)	nt Status X d to include the c	option for Power	Pres: Walker1 Source Class 2 in	resista resista betwee mode	nt text in P802.3 Ince unbalance Ince unbalance on the channel p pairs of conduct	Comment Status D bt/D2.4: Operation using between each two pairs of of 7 % whichever is a gre bairs is a measure of the ors used for power delive by Equation (145A–2):	of the channel, not gr ater unbalance. Res difference of resistar	eater than 100 mΩ or istance unbalance α
See "Walker_1_(Proposed Response WFP TFTD C/ 145A SC 145	Response	9 Status W	L 1	# 289	resista or resis betwee mode	sed text for P802 ince unbalance stance unbalance en the link section pairs of conduct	2.3bt/D2.5: Operation usi between each two pairs of ce of 7 % whichever is a on pairs is a measure of t ors used for power delive by Equation (145A–2):	of the link section, no greater unbalance. R the difference of resis	t greater than 100 m Ω Resistance unbalance stance of the common
Yseboodt, Lennart <i>Comment Type</i> E TODO Lennart: ii	Commer htroduce Annex th	Philips <i>nt Status</i> X nat shows an over	rview of ALL PS	Pres: Yseboodt3	Proposed I	Response OSED ACCEPT	Response Status W		
I can't believe I a SuggestedRemedy Adopt yseboodt_ Proposed Response WFP					Cl 145 Thompson Comment Curren	SC 145.A.2 , Geoff <i>Type</i> ER	P 265 GraCaSI <i>Comment Status</i> D bt/D2.4: Channel pair-to-		# <u>182</u> Channe ence is defined by
TFTD C/ 145 SC 145 Thompson, Geoff	.A.2	P 265 GraCaSI S.A.	L 24	# 180		sed text for P802 ation (145A–3):	2.3bt/D2.5: Link section p Response Status W		e difference is defined
Comment Type E Current text in P8 pair operation		nt Status D -to-pair channel r	esistance unbal	Channel ance requirement for 4-	PROP REF 2		IN PRINCIPLE.		
SuggestedRemedy	P802.3bt/D2.5: F -pair operation	Pair-to-pair link se	ection resistance	unbalance					
Proposed Response	Response	e Status W PLE.							

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: Page, Line

Pa **265** Li **36**

C/ 145 SC 145.A.2 P 265 L 42 # 183 Thompson, Geoff GraCaSI S.A.	C/ 145 SC 145.A.2 P 266 L 2 # 186 Thompson, Geoff GraCaSI S.A. GraCaSI S.S. G
Comment Type ER Comment Status D Channe	
Current text in P802.3bt/D2.4: is the sum of channel pair components with the highest common mode resistance	Current text in P802.3bt/D2.4: Channel and Rch
SuggestedRemedy Proposed text for P802.3bt/D2.5: is the sum of link section pair components with the highest common mode resistance	SuggestedRemedy Proposed text for P802.3bt/D2.5: Change Channel to Link Section and Rch to RLS. Change alignment of both PI s so that conductors stop at the PI not through. Proposed Response Response Status W
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	TFTD
REF 204	See 203
C/ 145 SC 145.A.2 P 265 L 44 # 184 Thompson, Geoff GraCaSI S.A. Image: Content of the second s	C/ 145A SC 145A.3 P 266 L 23 # 81 Darshan, Yair Mirosemi
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.	In the text "Current unbalance requirements (RPSE_min, RPSE_max and ICon-2P_unb) of a PSE is met with Rload_max and Rload_min as specified in Table 145–17." we have few issues: 1. Rload_max and Rload_min are specified in Equation 145-16, Eququation 145-17 and Table 145–17 and not just Table 145-17. 2. Rpese_min and Rpse_max is not met with Rload_max and Rload_min. They need to conform only to Equation 145-15. Only Icon-2P_unb need to be met with Rload_max and Rload_min. 3. Current unbalance requirements are plural and yet there is "is met with" which is wrong.
REF 204 Cl 145 SC 145.A.2 P 265 L 47 # 185 Thompson, Geoff GraCaSI S.A. Comment Type ER Comment Status D Channe Current text in P802.3bt/D2.4: Channel common mode resistance is the resistance of the Channel common mode resistance is the resistance of the	SuggestedRemedy Change from "Current unbalance requirements (RPSE_min, RPSE_max and ICon-2P-unb) of a PSE is met with Rload_max and Rload_min as specified in Table 145–17." To "Current unbalance requirements (RPSE_min, RPSE_max and ICon-2P-unb) of a PSE are met with Rload_max and Rload_min as specified in Equation 145-16, Eququation 145-17, and Table 145–17." Proposed Response Response Status W
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.	PROPOSED ACCEPT.

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: Page, Line

Pa **266** Li **23**

C/ 145 SC 145.A.3 P 266 L 26 # 1 Thompson, Geoff GraCaSI S.A. GraCaSI S.S. GraCaSI S.S. <t< td=""><td>187</td><td>C/ 145 SC 14 Thompson, Geoff</td><td>45.A.3</td><td>Р 267 GraCaSI S.A.</td><td>L 10</td><td># 189</td></t<>	187	C/ 145 SC 14 Thompson, Geoff	45.A.3	Р 267 GraCaSI S.A.	L 10	# 189
Comment Type ER Comment Status D	Channel	Comment Type	ER Comme	nt Status X		Channel
Current text in P802.3bt/D2.4:channel (cables and connectors) (This is at ordefinition in cabling standards. BTW, the proper term for "cables and connector "cabling") SuggestedRemedy		following reasor of having a diffe diagram. (I gath	erent shape is not j ner that there is onl	n the right in a circ ust a resistance loa y one but I am not	ele is not defined ad. 2) There is i sure) 3) The rig	and by the implication no PI defined in this ht end of the "End to
Proposed text for P802.3bt/D2.5:link section		that it is buried	in the PD (which o	ne has to assume i		the PD PI, I assume vice without test
Proposed Response Response Status W		•	ated in the diagram).		
PROPOSED ACCEPT IN PRINCIPLE.		SuggestedRemedy				
REF 204			EPI and a table of			twork to be used as a eeds to be stepped
C/ 145A SC 145A.3 P 266 L 34 # E	32	Proposed Response		e Status W		
Darshan, Yair Mirosemi		TFTD				
In the text "Figure 145–22 illustrates the relationship between effective resistan PSE PI as specified by Equation (145–15) and Rload_min and Rload_max as s Table 145–17.": Rload_max and Rload_min are specified in Equation 145-16, E 145-17 and Table 145–17 and not just Table 145-17. <i>SuggestedRemedy</i> Change from "Current unbalance requirements (RPSE_min, RPSE_max and IC of a PSE is met with Rload_max and Rload_min as specified in Table 145–17.' To " ICon-2P-unb is met with Rload_max and Rload_min as specified in Equat Eququation 145-17, and Table 145–17." <i>Proposed Response</i> Response Status W TFTD	specified in Eququation Con-2P-unb)	This addresses	the TODO for draf n Annex 145A.3.2 1_0517.pdf		-	# 41 Pres: Bennet1 iistance RPSE
The comment and suggested remedy don't seem to match.		C/ 145A SC 14	45A.3.2	P 267	L 27	# 83
C/ 145 SC 145.A.3 P 267 L 3 # []	88	Darshan, Yair	10/ 11012	Mirosemi		
Thompson, Geoff GraCaSI S.A. Comment Type ER Comment Status D Current text in P802.3bt/D2.4: Compliant load (PD + Channel)	Channel	TODO#151, #1	30 We need to ve	nt Status D rify by simulations	that 145A.3.2 te	est model is working.
SuggestedRemedy Proposed text for P802.3bt/D2.5: Compliant load (Link Section + PD)			D. If not implemente		00.	
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.		Proposed Response PROPOSED A	e Respons CCEPT IN PRINCI	e Status W PLE.		
REF 204		OBE by 41				
TYPE: TR/technical required ER/editorial required GR/general required T/technica	al E/editorial G/a	eneral		Pa 26	7	Page 70 of 71

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Pa 267
 Page 70 of 71

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 Li 27
 4/28/2017 2:15:40 PM

 SORT ORDER: Page, Line
 Page 70 of 71
 Page 70 of 71
 1/28/2017 2:15:40 PM

Darshan, Y	SC 145A.4 air	P 268 Mirosemi	L 16	# 84
Comment 7	Type ER	Comment Status D		Editoria
	e of subclause 1 n_01_0317Rev0	45A.4 was not implemented 008.	l per the baseline)
Suggested	Remedy			
	e from "145A.4 F rrent unbalance'	PD resistance and current ur	nbalance" To "14	5A.4 PD PI resistance
Proposed H	Response	Response Status W		
PROP	OSED ACCEPT.			
CI 33C	SC 33C.1.2	P 333	L 18	# 157
Stewart, He	eath	Analog Devic	es	
Comment 7	Type ER	Comment Status D		Annex
	m "quasi-simulta ed. What was m	aneous" has been introduced leant here?	d. This is a very o	odd term and should be
Currente de	Remedy			
Suggestea		re out why this label is here.		
00	e quasi and figu	Te out with this laber is here.	• • •	
00		Response Status W		

Pa **333** Li **18**