Thompson, Geoff GraCaSI S.A. Stover, David Analog Devices Comment Type E Comment Status D Withdrawn Draft D1.8 is prepared for Task Force Review. Withdrawn Adopted comment Type ER Comment Status A SuggestedRemedy Ignore this comment, comment text can not be deleted on input sheet. Withdrawn Adopted comment remedy against D2.3 (#27): "Replace "4-pairs" with "4 pairs implement rules in comment through entire draft" This rule was not applied to smatches (e.g., "2-pair", "2-pairs", "4-pairs"). Proposed Response Response Status Z REJECT. This comment was WITHDRAWN by the commenter. Stover, David Response Response Status W Cl 00 SC 0 P L # 211 Not sure what this comment is asking for, so I will simply restate the rules from 27 in D2.3: "Use of "4-pairs" is wrong through draft. The hyphen should only be used wher used as an adjective (ex: 4-pair power). If "pair" or "pairs" is used as a noun, it be no hyphen."	
Draft D1.8 is prepared for Task Force Review. SuggestedRemedy Ignore this comment, comment text can not be deleted on input sheet. Proposed Response Response Status Z REJECT. This comment was WITHDRAWN by the commenter. C/ 00 SC 0 P L # 211 Tremblay, David Hewlett Packard Enter Comment Type E Comment Status A Pres: Tremblay1 TODO 1-6 Topics:	160
SuggestedRemedy implement rules in comment through entire draft" This rule was not applied to a matches (e.g., "2-pair", "2-pairs", "4-pairs"). SuggestedRemedy implement rules in comment through entire draft" This rule was not applied to a matches (e.g., "2-pair", "2-pairs", "4-pairs"). Proposed Response Response Status Z REJECT. This comment was WITHDRAWN by the commenter. SuggestedRemedy C/ 00 SC 0 P L # 211 Tremblay, David Hewlett Packard Enter Pres: Tremblay1 Comment Type E Comment Status A Propo 1-6 Topics: Pres: Tremblay1 Topo 1-6 Topics: Implement rules in comment through entire draft" This rule was not applied to a matches (e.g., "2-pairs", "2-pairs", "4-pairs").	Editor
Proposed Response Response Status Z REJECT. This comment was WITHDRAWN by the commenter. C/ 00 SC 0 P L # 211 Tremblay, David Hewlett Packard Enter # 211 Mot sure what this comment is asking for, so I will simply restate the rules from 27 in D2.3: "Use of "4-pairs" is wrong through draft. The hyphen should only be used wher used as an adjective (ex: 4-pair power). If "pair" or "pairs" is used as a noun, the no hyphen."	similar
This comment was WITHDRAWN by the commenter. Response Response Response Status W C/ 00 SC 0 P L # 211 ACCEPT IN PRINCIPLE. C/ 00 SC 0 P L # 211 ACCEPT IN PRINCIPLE. Tremblay, David Hewlett Packard Enter # 211 This comment is asking for, so I will simply restate the rules from 27 in D2.3: Comment Type E Comment Status A Pres: Tremblay1 TODO 1-6 Topics: Pres: Tremblay1 Topical If "pair" or "pairs" is used as a noun, the non hyphen."	
Cl 00 SC 0 P L # 211 Tremblay, David Hewlett Packard Enter # 211 Comment Type E Comment Status A Pres: Tremblay1 Pres: Tremblay1 Not sure what this comment is asking for, so I will simply restate the rules from 27 in D2.3: "Use of "4-pairs" is wrong through draft. The hyphen should only be used wher used as an adjective (ex: 4-pair power). If "pair" or "pairs" is used as a noun, the no hyphen."	
Tremblay, David Hewlett Packard Enter 27 in D2.3: Comment Type E Comment Status A Pres: Tremblay1 "Use of "4-pairs" is wrong through draft. The hyphen should only be used wher used as an adjective (ex: 4-pair power). If "pair" or "pairs" is used as a noun, the no hyphen."	
Comment Type E Comment Status A Pres: Tremblay1 used as an adjective (ex: 4-pair power). If "pair" or "pairs" is used as a noun, the no hyphen." TODO 1-6 Topics:	
Figure out how other clauses link to DTE/PoE. Editor to make sure rule is followed. How to address use of DTE in clause 145.	
SuggestedRemedy See tremblay_01_0517	
Response Response Status C ACCEPT IN PRINCIPLE.	
adopt tremblay_01_0517.pdf	
C/ 145 SC 145 P L # 85 Darshan, Yair Mirosemi Mirosemi	
Comment Type T Comment Status D Random	
To make sure that clause 145 contains the information required for backwards compatability so Type 3 and 4 PSEs to support Type 1 and 2 PDs and for Type3 and 4 PDs to be supported by Type 1 and 2 PSEs.	
SuggestedRemedy	
If not ready to the meeting add to TO DO list	
Proposed Response Response Status Z REJECT.	
This comment was WITHDRAWN by the commenter.	

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

C/ FM SC FM P1 L12 # 3	C/ 1 SC 1 P 24 L 3 # 252 Yseboodt, Lennart Philips
Comment Type E Comment Status R Editorial It is my understanding that the amendment title has to match the title in the PAR.	Comment Type ER Comment Status A E Editor's Note: The following clause 1.3 is a place holder for new content. If no new
Unless this is wrong, the title cannot be changed to "Power over Ethernet over 4 Pairs" without a PAR revision.	references are added prior to entering sponsor ballot, this clause will be deleted from t ballot draft.
SuggestedRemedy	SuggestedRemedy
Change the title back to match the PAR: "Physical Layer and Management Parameters for DTE Power via MDI over 4-Pair"	A reference has been added. Remove this Editor's Note. <i>Response</i> <i>Response</i> <i>Response</i> <i>W</i>
Response Response Status C REJECT.	ACCEPT.
The rules and guidance in respect to the title of the amendment are as follows.	Cl 1 SC 1.4.236a P 24 L 24 # 128 Schindler, Fred Seen Simply, Cisco, T Seen Sim
[1] Subclause 4.2.3.2 'Review of draft standards' of the IEEE-SA Standards Board Operations Manual <https: develop="" opman="" policies="" sb_om.pdf="" standards.ieee.org=""> states 'Title of Document. The title on the draft document and submittal form shall be within the scope as stated on the most recently approved PAR, or action(s) shall be taken to ensure this.'.</https:>	Comment Type ER Comment Status A Defi The existing text, "A system consisting of one PSE and one PD that provides power across balanced twi pair cabling." is incorrect. Since the first release of clause 33 a valid system configuration has been
[2] The IEEE-SA 2014 Style manual has similar text that reads 'Per 4.2.3.2 of the IEEE-SA Standards Board Operations Manual, the title on the draft document shall be within the scope as stated on the most recently approved PAR.'.	Switch====endpoint-PSE====Midspan-PSE====PD Sections in Clauses 33 and 145 provide requirements for this configuration. The soluti for this concern also removes uncertainty about which device is doing the powering.
[3] Item 2 Of the RevCom check list <https: approve="" development.standards.ieee.org="" myproject="" mytools="" public="" subchklst.pdf=""></https:>	Suggested Remedy
reads 'Is the Title of the submitted draft within the Scope of the PAR?'. Nothing states that they have to be equal and we believe the title is within the Scope.	Replace the referenced sentence with, "A system consisting of one PSE, which may source power, and one PD, which may consume power, across balanced twisted-pair cabling. (See IEEE Std 802.3, Clause 3
C/FM SC FM P1 L 22 # 4	Response Response Status C
Anslow, Pete Ciena Comment Type E Comment Status A Editorial	ACCEPT IN PRINCIPLE. Change to:
Now that IEEE Std 802.3bv-2017 has been approved, "201x" should be changed to "2017". SuggestedRemedy Change "201x" to "2017" here and on page 12 line 13, change "20xx" to "2017"	"1.4.418ad Type 4 PSE: A PSE that supports Class 8 power levels, short MPS, and 4-power. (See IEEE 802.3, Clause 145)."
Response Response Status C ACCEPT.	

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

C/ 1 SC 1.4.254 Stover, David	P 24 Analog Device	L 33 es	# 159	C/ 1 Schindler, F	SC 1.4.416	P 24 Seen Simr	<i>L</i> 50 bly, Cisco, T	# 129
Comment Type TR TODO 2.3: "Fix conne SuggestedRemedy	Comment Status D ection check, definitions, etc. fo		Pres: Stover2 span conflicts."	Comment T This co	<i>ype</i> TR mment closes 98 145.3.8.6 L2	Comment Status D a TODO related to D2.3 #9 22. This work is also relate	1 and #209 for Fre	
See stover_02_0417. Proposed Response REJECT. This comment was W	odf Response Status Z ITHDRAWN by the commente	er.		determi current VPSE. capacita	ning whether F below ILIM-2P Therefore, the	ed in my TODO provided fo PSEs charge the PD bulk c . The PD is a passive part PSE needs to provide ILIM rating value. A class-4 PD ents.	apacitance to a lev icipant when the P // for a TLIM that c	rel that keeps the PSE SE drops and raises its harges the PD
Cl 1 SC 1.4.254 Walker, Dylan Comment Type TR A link section connect	P 24 Cisco <i>Comment Status</i> A ts a single PSE to a single PD	L 33	# 249 Definitions	SPICE :	simulations of	the two PD tests in 145.3.8 ed solution clarifies PSE T		
SuggestedRemedy Change: "The portion of the linl To:	ents #271, #255, and #308) k segment from a PSE to the I k segment from the PSE to the <i>Response Status</i> C			Most pr definitio as, "this supporti- class. T Type-2 when th - curren - capabl Type-2 a class- SPICE = maximu results i Note tha with class SuggestedF For Typ ". that is Proposed R REJEC	ns, which takes SPSE is capating class-x". I Therefore, a T PSE using my te definition is ttly supports (w le of supportin and Type-3 PS 4 PD, which s simulations shim capacitance in less than 2x at Type-4 PSE ss-4 PDs, which Remedy re-3 and Type- s capable of su Response T.	ing to a preview of this com a the form "A PSE that supp ole of supporting class-x" wi f a PSE assigns class-4 the ype 3 and Type 4 PSE prov- interpretation. Note how to tested, when it is driving the PD), wi g (before it is driving the PD), with the time driving the PD), with the time driving the PD), with the time driving the PD, with the driving the driving the driving the the driving the driving the driving the driving the the driving the driving the driving the driving the the driving the driving the driving the driving the driving the the driving the driving the driving the driving the driving the the driving the drive the driving the drive the drive the driving the driving t	orts ." (see Type of hile I interpreted the in the PSE is only iding this power le he text is interpret hich is my view; 0), which is the vie 0 ms and an ILIM- ype-4 PSE has a plies 2x ILIM-2P to s to reach a PD of on both pairsets to for the PSE.	definitions in 1.4.41x) the text as "this PSE is supporting the assigned vel fits the definition of ed depends on the time w of others. 2P of at least 0.684A to TLIM-2P of 6 ms. the class-4 PD with the perating point , which

Cl 25 SC 25.4.6 Anslow, Pete	P 29 Ciena	L 17	# 5	C/ 30 SC 30.1 Anslow, Pete	2.2.1.14	P 43 Ciena	L 15	# 8
SuggestedRemedy	Comment Status A		Editorial	Comment Type E Applying the char greater than Type Same issue with t	iges shown resu 1" (double "or").	ds: "and whether	<i>Editorial</i> it is Type 1 or or
Response ACCEPT.	struction to: "Change the first p Response Status C	baragraph of 25.	4.6 as follows:	SuggestedRemedy Change "or greate Response		to "greater than Ty se S <i>tatus</i> C	ype 1" in two plac	es.
Cl 30 SC 30.9 Yseboodt, Lennart Comment Type ER	P 34 Philips Comment Status A	L 48	# 290 Editorial	ACCEPT. <i>C</i> / 30 SC 30.1 Anslow, Pete	2.2.1.181	<i>P</i> 47 Ciena	L 4	# [2
be removed prior to s The time has probabl SuggestedRemedy				#122. The Comment #1 "adopt darshan_0 This comment res 120, 121, 126, 12	ainst D2.3 and v 22 response wa 3_0317Rev007 solves comment 8, 399" renced file mak #57.	as: F.pdf with editoria ts: 55, 56, 57, 63, tes no changes to	l license to clean 70, 71, 104, 105,	Management a pointer to comment up. 106, 117, 118, 119, 30.12.3.1.18l, nor does
Cl 30 SC 30.9.1.1 Anslow, Pete Comment Type E If subclause 30.9.1.1. to be deleted. SuggestedRemedy	1.10 P 37 Ciena <i>Comment Status</i> A .10 is deleted, then the row for	L 50 aPSEShortCour	# 6 <i>Management</i> nter in Table 30-4 has	The other subclau or remote device. SuggestedRemedy	lses in this sect However, 30.1 "local PSE" her	ion make it clear v 2.2.1.18I and 30.1	2.3.1.18l have id	ute refers to the local entical text. E" in 30.12.3.1.18I
Add instructions unde Response ACCEPT.	er 30.2.5 to delete the row for a <i>Response Status</i> C	PSEShortCount	er in Table 30-4 .					

Pa **47** Li **4**

C/ 30 SC 30.12.2.1.18z4 Tuenge, Jason	P 50 Pacific Northwe	L 10 est Nati	# 212	<i>Cl</i> 30 Tuenge, Ja	SC 30.12.2. 4	1.18z6	P 50 Pacific North	L 29 west Nati	# 214
Comment Type T Comment For an accuracy of 2^n bits, an efficient For an accuracy of 2^n bits, an efficient For an accuracy suited than "Accuracy" in "aLldpXd typically specified as ± the sum of It isn't clear how this relates to the SuggestedRemedy Change "aLldpXdot3LocMeasVolt and change "accurate bits" to "use accuracy and resolution are calcul truly effective resolution is reporte example, should 7-bit resolution more information required to express	Iracy of 2^-n. Signifi dot3LocMeasVoltag a percentage (of re "number of accura ageAccuracy" to "al eful significant bits" lated from significar d, and encourage h nean 8% accuracy r	cant bits ("Sig leAccuracy." A ading or scale te bits" (or bits LldpXdot3Loch (see Table 79 th bits. This wo armonization of elative to read	Bits") seems better Iso, accuracy is and a fixed tolerance. of accuracy). MeasVoltageSigBits" -7b). Also clarify how buld help to ensure a of accuracy claims. For	Suggested Same Response ACCE OBE t ### ##	Comment for Po Remedy change for Pow PT IN PRINCIPI	wer as for ^N er as for Vc <i>Respons</i> LE. following re	oltage above. se Status C		Pres: Yseboodt6
adopt yseboodt_06_0517_lldpmea with editorial license to expand all This comment resolves comments 224, 225, 226, 227, 228, 229, 230 <i>Cl</i> 30 SC 30.12.2.1.18z5 Tuenge, Jason	uncertainty fields to s: 213, 214, 215, 21 , 231 <i>P</i> 50 Pacific Northwe	6, 217, 218, 2 <i>L</i> 20	# 213	with ed CI 30 Tuenge, Ja Comment Same Suggested	SC 30.12.2 .4 ason <i>Type</i> T comment for Er	comme Comme nergy as for	uncertainty fields <i>P</i> 50 Pacific North <i>ent Status</i> A Voltage above.	L 38	# 215 Pres: Yseboodt6
Same comment for Current as for SuggestedRemedy Same change for Current as for V	-		Pres: Yseboodt6	Response ACCE OBE b ### ## Comm ACCE	PT IN PRINCIP	Respons LE. following re LE.	se Status C		
Comment 212 has the following re ACCEPT IN PRINCIPLE. adopt yseboodt_06_0517_IIdpmea with editorial license to expand all	asurements.pdf	o 16 bits.					uncertainty fields	to 16 bits.	

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

Pa **50** Li **38** Page 5 of 80 5/25/2017 8:55:40 AM

C/ 30 SC 30.12.2.1.18z8 P 50 L 47 Tuenge, Jason Pacific Northwest Nati	# 216	C/ 30 SC 30.12.2.1.18z10 P 51 L 13 # 218 Tuenge, Jason Pacific Northwest Nati
Tuenge, Jason Pacific Northwest Nati Comment Type E Comment Status A No units are specified for aLldpXdot3LocVoltageMeasurement. SuggestedRemedy Add reference to Table 79-7b-Measurements. Response C Response Response Status C ACCEPT IN PRINCIPLE. OBE by 212 ### #### Comment 212 has the following response: ACCEPT IN PRINCIPLE. adopt yseboodt_06_0517_Ildpmeasurements.pdf	Pres: Yseboodt6	Tuenge, Jason Pacific Northwest Nati Comment Type E Comment Status A Pres: Yseboo Same comment for Power as for Voltage above. Compare with aLldpXdot3LocPDRequestedPowerValue, aLldpXdot3LocPSEAllocatedPowerValue, etc. SuggestedRemedy Same change for Power as for Voltage above. Response Response Status C ACCEPT IN PRINCIPLE. OBE by 212 ### ### Comment 212 has the following response: ACCEPT IN PRINCIPLE.
with editorial license to expand all uncertainty fields to 16 bits. Cl 30 SC 30.12.2.1.18z9 P 51 L 4 Tuenge, Jason Pacific Northwest Nati Comment Type E Comment Status A Same comment for Current as for Voltage above.	# 217 Pres: Yseboodt6	adopt yseboodt_06_0517_Ildpmeasurements.pdf with editorial license to expand all uncertainty fields to 16 bits. C/ 30 SC 30.12.2.1.18z11 P 51 L 22 # 219 Tuenge, Jason Pacific Northwest Nati Pres: Yseboot Comment Type E Comment Status A Pres: Yseboot
SuggestedRemedy Same change for Current as for Voltage above. Response Response Status C ACCEPT IN PRINCIPLE. OBE by 212 ### ### Comment 212 has the following response: ACCEPT IN PRINCIPLE. adopt yseboodt_06_0517_Ildpmeasurements.pdf with editorial license to expand all uncertainty fields to 16 bits.		Same comment for Energy as for Voltage above. SuggestedRemedy Same change for Energy as for Voltage above. Response Response Status C ACCEPT IN PRINCIPLE. OBE by 212 ### ### ### Comment 212 has the following response: ACCEPT IN PRINCIPLE. adopt yseboodt_06_0517_IIdpmeasurements.pdf with editorial license to expand all uncertainty fields to 16 bits.

Pa **51** Li **22** Page 6 of 80 5/25/2017 8:55:40 AM

Cl 30 SC 30.12.2.1.21 Yseboodt, Lennart	P 51 Philips	L 43	# 291	C/ 30 SC 30.12.3.1.18z4 P 61 L 1 # 220 Tuenge, Jason Pacific Northwest Nati
Comment Type TR Com The managed object aLldpXdo not have a corresponding field It does not appear in Clause 75 There is also no remote variant	in the PoE LLDPDU of 802.3-2015.		<i>Management</i> n 30.12.2.1.21 does	Comment Type T Comment Status A Pres: Yseboo See related comments regarding Local subclause 30.12.2.1.18z4 above. SuggestedRemedy See related changes proposed for Local subclause 30.12.2.1.18z4 above. See related changes proposed for Local subclause 30.12.2.1.18z4 above.
After consulting with Mr. Law, t SuggestedRemedy - Delete the Editor's Note on lir - Delete 30.12.2.1.21 - Delete the object in Table 30-	ne 6, page 52	action is to remov	re this object.	Response Response Status C ACCEPT IN PRINCIPLE. OBE by 212 ### ###
Response Res	onse Status W			Comment 212 has the following response: ACCEPT IN PRINCIPLE.
C/ 30 SC 30.12.3.1.17 Anslow, Pete	P 54 Ciena	L 47	# 7	adopt yseboodt_06_0517_Ildpmeasurements.pdf with editorial license to expand all uncertainty fields to 16 bits.
Comment Type E Com Changes are shown to 30.12.3	<i>ment Status</i> A .1.17, but there is no	o corresponding ed	Editorial diting instruction.	C/ 30 SC 30.12.3.1.18z5 P 61 L 12 # 221 Tuenge, Jason Pacific Northwest Nati
SuggestedRemedy Add an editing instruction.				Comment TypeTComment StatusAPres: YsebooSame comment for Current as for Voltage above.
Response Response Response	onse Status C			SuggestedRemedy Same change for Current as for Voltage above.
				Response Response Status C ACCEPT IN PRINCIPLE.
				OBE by 212
				### ###
				Comment 212 has the following response: ACCEPT IN PRINCIPLE.
				adopt yseboodt_06_0517_lldpmeasurements.pdf with editorial license to expand all uncertainty fields to 16 bits.

Pa **61** Li **12**

C/ 30 SC 30.12.3.1.18z6 P 61 L 22 Tuenge, Jason Pacific Northwest Nati	# 222	C/ 30 SC 30.12.3.1.18z8 P 61 L 42 Tuenge, Jason Pacific Northwest Nati	# 224				
Comment Type T Comment Status A Same comment for Power as for Voltage above.	Pres: Yseboodt6	Comment Type E Comment Status A Pres: Y No units are specified for aLldpXdot3RemVoltageMeasurement.					
SuggestedRemedy Same change for Power as for Voltage above.		SuggestedRemedy Add reference to Table 79-7b-Measurements.					
Response Response Status C ACCEPT IN PRINCIPLE.		Response Response Status C ACCEPT IN PRINCIPLE.					
OBE by 212		OBE by 212					
### ### ###		### ### ###					
Comment 212 has the following response: ACCEPT IN PRINCIPLE.		Comment 212 has the following response: ACCEPT IN PRINCIPLE.					
adopt yseboodt_06_0517_lldpmeasurements.pdf with editorial license to expand all uncertainty fields to 16 bits.		adopt yseboodt_06_0517_lldpmeasurements.pdf with editorial license to expand all uncertainty fields to 16 bits.					
C/ 30 SC 30.12.3.1.18z7 P 61 L 32 Tuenge, Jason Pacific Northwest Nati	# 223	C/ 30 SC 30.12.3.1.18z9 P 61 L 51 Tuenge, Jason Pacific Northwest Nati	# 225				
Comment Type T Comment Status A Same comment for Energy as for Voltage above.	Pres: Yseboodt6	Comment Type E Comment Status A Same comment for Current as for Voltage above.	Pres: Yseboodt6				
SuggestedRemedy Same change for Energy as for Voltage above.		SuggestedRemedy Same change for Current as for Voltage above.					
Response Response Status C ACCEPT IN PRINCIPLE.		Response Response Status C ACCEPT IN PRINCIPLE.					
OBE by 212		OBE by 212					
### ### ###		### ### ###					
Comment 212 has the following response: ACCEPT IN PRINCIPLE.		Comment 212 has the following response: ACCEPT IN PRINCIPLE.					
adopt yseboodt_06_0517_Ildpmeasurements.pdf with editorial license to expand all uncertainty fields to 16 bits.		adopt yseboodt_06_0517_IIdpmeasurements.pdf with editorial license to expand all uncertainty fields to 16 bits.					

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

Pa **61** Li **51** Page 8 of 80 5/25/2017 8:55:40 AM

C/ 30 SC 30.12.3.1.18z10 P 62 L 7 Tuenge, Jason Pacific Northwest Nati	# 226	C/ 33 SC 33.1.1 P 63 L 17 # 9 Anslow, Pete Ciena
Comment Type E Comment Status A Same comment for Power as for Voltage above. SuggestedRemedy Same change for Power as for Voltage above. Response Response Status C ACCEPT IN PRINCIPLE.	Pres: Yseboodt6	Comment TypeEComment StatusAEditorialThe general rule for placement of editing instructions is that if the subclause title is being changed or the entire subclause is being inserted, then the editing instruction comes before the subclause title, otherwise the editing instruction comes after the subclause title. This is correct for 33.1 and 33.2.1, but incorrect for 33.1.1, 33.3.1, 33.4, 33.8.4.3, etc.SuggestedRemedy Correct the placement of the editing instructions throughout the draft
OBE by 212		Response Response Status C
Comment 212 has the following response: ACCEPT IN PRINCIPLE. adopt yseboodt_06_0517_Ildpmeasurements.pdf with editorial license to expand all uncertainty fields to 16 bits.		Cl 33 SC 33.2.1 P 63 L 32 # 10 Anslow, Pete Ciena Editorial Comment Type E Comment Status A Editorial The 802.3 Framemaker template says: Include existing headings for each layer above the heading being inserted or modified. Editorial
C/ 30 SC 30.12.3.1.18z11 P 62 L 16 Tuenge, Jason Pacific Northwest Nati Comment Type E Comment Status A Same comment for Energy as for Voltage above.	# 227 Pres: Yseboodt6	SuggestedRemedy Add the heading for 33.2, 33.3, 33.8, and 33.8.3 Response Response Status C ACCEPT.
SuggestedRemedy Same change for Energy as for Voltage above. Response Response Status C ACCEPT IN PRINCIPLE.		C/ 33 SC 33.2.1 P 63 L 34 # 11 Anslow, Pete Ciena Editorial Comment Type E Comment Status A Editorial "Change the last sentence" should be "Change the last paragraph" Editorial
OBE by 212 ### ### ### Comment 212 has the following response: ACCEPT IN PRINCIPLE.		SuggestedRemedy change "last sentence" to "last paragraph" Response Response Status C ACCEPT.
adopt yseboodt_06_0517_lldpmeasurements.pdf with editorial license to expand all uncertainty fields to 16 bits.		

TYPE: TR/technical required ER/editorial required GR/gener	al required T/technical E/editorial G/general	Pa 63
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	Li 34
SORT ORDER: Page, Line		

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C/ 33 SC 33.2.2	P 63	L 41	# 12	C/ 33 SC 33.4	P 64	L 14	# 15
Anslow, Pete	Ciena			Anslow, Pete	Ciena		
	Comment Status A text than is shown here.		Editorial		Comment Status A n says: "Change 33.4 and its s ent and most of them already h		
SuggestedRemedy	struction to: "Change the first p	paragraph of 33 (2 as follows:"	SuggestedRemedy			-
Response ACCEPT.	Response Status C	aragraph of 55.2	2.2 as 1010ws.	Add an editing instruc	nstruction to "Change 33.4 as ction immediately after the title		nge 33.4.6 as follows:"
Cl 33 SC 33.2.2	P 63	L 49	# 13	Response ACCEPT.	Response Status C		
Anslow, Pete	Ciena			C/ 33 SC 33.4.3	P 64	L 28	# 16
Comment Type E	Comment Status A		Editorial	Anslow, Pete	Ciena		
The inserted text conta diagram", which seem	ains 3 references to Figure 33 s incorrect	 This figure is 	the "PSE state	Comment Type E	Comment Status A		Editorial
SuggestedRemedy	to "Figure 33-7" in 3 places.			"associated text" is to	3-15, Equation 33-16, and the be deleted. Also, there is a s hich conflicts with the first.		
Response ACCEPT.	Response Status C			SuggestedRemedy Remove the editing ir associated text."	nstruction: "Delete Equation 33	3-15, Equation 33	3-16, and the
C/ 33 SC 33.2.2 Anslow, Pete	<i>Р</i> 64 Ciena	L 4	# 14		3.4.3 with Equation 33-15, Equ	ation 33-16, and	the associated text in
Comment Type E	Comment Status A re 33-5" should be "in the title	of Figure 33-5"	Editorial	Response ACCEPT.	Response Status C		
SuggestedRemedy Change "caption" to "ti	itle"			C/ 33 SC 33.4.4 Anslow, Pete	P 65 Ciena	L 28	# 17
Response ACCEPT.	Response Status C			<i>Comment Type</i> E Only the first paragra	Comment Status A ph of 33.4.4 is shown		Editorial
				SuggestedRemedy Change the editing in	struction to: "Change the first	paragraph of 33.	4.4 as follows:
				Response ACCEPT.	Response Status C		

CI 33	SC	33.4.4	P 65	L 33	# 18		CI 33	SC	33.4.6	P 66	L 37	# 21
Anslow, I	Pete		Ciena				Anslow, F	Pete		Ciena		
Commen	t Type	Е	Comment Status A			Editorial	Comment	t Type	т	Comment Status A		Editor
The	text at the	e end of t	he first paragraph of 33.4.4 is	being added bu	ut is not under	lined.				ency in MHz for a 10 Gb/s F	PHY", but the eq	uation covers
Suggeste	edRemea	ly								-T, or 10GBASE-T. r values, fmax should just be	e a number.	
			n Table 33-19b while operating cified bandwidth."	g at the specifie	d speed, whe	n	Suggeste		•			
Respons ACC			Response Status C				Chan T, an	ige "fma d 500 M	ix is the fre	ncy in MHz for a 10 Gb/s PH equency in MHz, 100 MHz fo GBASE-T" to "fmax is 100 fo	r 2.5GBASE-T,	250 MHz for 5GBASE-
<i>Cl</i> 33 Anslow, I		33.4.6	<i>P</i> 66 Ciena	L 32	# 19		Response	e	DAGE-1 .	Response Status C		
Commen The		E numbers	Comment Status A in Clause 33 are incorrect.			Editorial	C/ 33	SC	33.4.9	P 67	L 3	# 22
33.4.	nge the e .6 to 33-1	quation ir					Anslow, F <i>Comment</i> There	t Type	E hange to 3	Ciena Comment Status A 33.4.9		Editor
33.4. Respons	.9.1.2 to : e		wed by 33-18a Response Status C				<i>Suggeste</i> Chan follow	ige the e		ruction to: "Change 33.4.9.1	and 33.4.9.1.1	through 33.4.9.1.4 as
ACC	EPT.						Response	e		Response Status C		
C/ 33		33.4.6	P 66	L 32	# 20		ACCE	EPT.				
Anslow, I <i>Commen</i>		Е	Ciena Comment Status A			Editorial	C/ 33 Maguire, '		33.4.9.1	P 67 Siemon	L 5	# 117
The	units in e	quation 3	3-17a (shown as 0-0a) should	d be outside the	brackets.		Comment	t Tvpe	Е	Comment Status A		AE
Char	nge "10m nge "1m∖v	Vpp/f" to /pp" to "1		ng brookot			Quote actua claus	es are n al namin e 145.4	g conventi .9.1 if allov	around the words "connector on of the component as use wed as part of this ballot cycl	d in the docume	
Respons		что-реак	Response Status C	ng blacket.			Suggeste		-			
ACC										Connector" and "telecom ou let has been removed as a r		er Maquire comment)
							Response			Response Status C	Sour of all call	or magaire comment).
									PRINCIPL			

ALSO, Apply change to clause 145.4.9.1

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	Pa 67	Page 11 of 80
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	Li 5	5/25/2017 8:55:40 AM
SORT ORDER: Page, Line		

				-				
X 33 SC 33.4.9.1	P 67	L 5	# 112	C/ 33	SC 33.4.9.1	P 67	L 11	# 113
laguire, Valerie	Siemon			Maguire, V	/alerie	Siemon		
Comment Type T Con	nment Status A		AES	Comment	Type E	Comment Status A		A
At best, "telecom outlet" is a n generic term for any connecto specific rules about the work a	r in a channel or link rea outlet and applic	segment. Since ations-specific e	TIA and ISO/IEC have electrical components,	titled,	"Connector" or "te	vork area or equipment cord elecom outlet" Midspan PSE 145.4.9.1 if allowed as part	device transmi	ssion requirements".
this term causes confusion an clause 145.4.9.1 if allowed as			nent. Apply change to	Suggeste	dRemedy			
SuggestedRemedy					n 1: List only the 5 its to clause 33.4.	connector variants in claus	e 33.4.9.1 and r	nove the 5 equipment
Replace all occurances of "co Midspan PSE".	nnector or telecom ou	utlet Midspan PS	SE" with "connector	Option		- 23 (The sentence starting	g with, "There are	e 10 variants" and the
Replace all occurances of "Co	onnector" or "telecom	outlet" Midspar	n PSE' with ""Connector"	Response)	Response Status C		
Midspan PSE.				•	PT IN PRINCIPL	•		
ACCEPT IN PRINCIPLE.	oonse Status C				nly the 5 connecto e 33.4.9.1.4	r variants in clause 33.4.9.1	and move the s	5 equipment variants to
ALSO, Apply change to clause		L7	# 445	Also,	Apply change to c	lause 145.4.9.1.		
C/ 33 SC 33.4.9.1 Iaguire, Valerie	P 67 Siemon	LI	# 115	C/ 33	SC 33.4.9.1	P 67	L 14	# 116
Comment Type T Con	nment Status A		AES	Maguire, V	/alerie	Siemon		
An explanation of Connector M		w it is implemen	-	Comment	Type E	Comment Status A		
segment is needed. Possible allowed as part of this ballot c	nisuse of quotes, too			not ne	ecessary to specifi	ith a plug on one or both er cally call the assembly an "	equipment cord"	or "work area cord".
uggestedRemedy				,	0	145.4.9.1 if allowed as part	of this ballot cy	cle.
Replace, "The Midspan PSE e		ted as "connect	or" or "telecom outlet"	Suggeste	-			
shall meet the following transr	nission parameters."				ce all occurances an PSE".	of "work area or equipment	cable Midspan	PSE" with "cord
with, "A connector Midspan Ps shall meet the following transr		e connectors in	the link segment and	Response)	Response Status C		
-	onse Status C			ACCE	PT IN PRINCIPL	Ξ.		
ACCEPT IN PRINCIPLE.				ALSC	, Apply change to	clause 145.4.9.1		
Apply change to clause 145.4	9.1.							
Ask Valerie to submit mainten	ance request for clau	160 33						

Pa **67** Li **14**

Cl 33 SC 33.4.9.1 Maguire, Valerie	P 67 Siemon	L 16	# 114	C/ 33 SC 33.4.9 Maguire, Valerie	9.1.4 <i>P</i> 68 Siemon	L 47	# 119
	Comment Status A quipment" with "work area o Response Status C	or equipment"	Editorial	needed. This sente performance to cor term "jumper" here that the subject pai	Comment Status A Cord Midspan PSE and how it is nee can be merged with the one rect the misuse of the word "cat since there are no longer any e rs are those transmiting and rec allowed as part of this ballot cyc	e below regardin ble". It is not nec xternal transmiss ieving data, not	g transmission essary to introduce the sion references. Clarify
C/ 33 SC 33.4.9.1.4 Maguire, Valerie	<i>P</i> 68 Siemon	L 45	# 118		as necessary to show the follow	wing text in unde	rline and all old text in
outlet" Midspan PSE dev 33.4.9.1. It is also missir	Comment Status A e should be the same level ice transmission requirement of the information about tra- o clause 145.4.9.1.4 if allow	ents. It should no ansmission requi	t be a subclause of rements in the	Midspan PSE shou requirements of thi	g the work area or equipment ca ld not alter the requirements of s clause and the specifications f T, and return loss for the transn	the cable. This c or a (jumper) co	able shall meet the rd as specified for
SuggestedRemedy Replace, "33.4.9.1.4 Wol	rk area or equipment cable	Midspan PSE"			an PSE replaces an equipment ad the insertion loss, NEXT, and smitting pairs."		
with, "33.4.9.2 Work area requirements"	a or equipment cable Midsp	oan PSE device t	ransmission	Response ACCEPT IN PRINC	Response Status C		
Re-number transmission	parameter subclauses acc	ordingly.					
Response ACCEPT IN PRINCIPLE ALSO, Apply change to c					idspan PSE replaces an elemer n loss, NEXT, and return loss va		
				Ask Valerie to subr	nit maintenance request for clau	ıse 33.	

Pa **68** Li **47**

Maguire, Valerie	.4 <i>P</i> 69 Siemon	L 4	# 120	C/ 40 SC 40.6.1.1 Anslow, Pete	P 71 Ciena	L 14	# 24
	Comment Status A eference Midspan PSE assem a 145-15 if allowed as part of t		AES t a cable or cabling.	Comment Type E There is no editing in SuggestedRemedy	Comment Status A struction associated with the o	change to 40.6.1.	<i>Editoria</i> 1
•	Da-Cable specifications for use		SEs"	,	tion: "Change the first paragr Response Status C	aph of 40.6.1.1 a	s follows:"
Replace, "Cabling spe	ecification"			C/ 79 SC 79 Yseboodt, Lennart	P 73 Philips	L 4	# 292
with, "Cord specification	on"						
Response ACCEPT IN PRINCIP	Response Status C LE.				Comment Status A ns of Clause 79 are included f in to sponsor ballot if they hav		
ALSO, Apply change t	to Table 145-15			The time has probabl	y come		
C/ 33 SC 33.4.9.1. Jones, Chad	.7 <i>P</i> 69 Cisco	L 38	# 109	SuggestedRemedy Remove unmodified s	subclauses from Clause 79 ar	nd remove this no	ote.
Comment Type E	Comment Status A en NEXT loss and alien FEXT	loss coupled be	AES	Response ACCEPT.	Response Status C		
limited, multiple distur	ber alien near-end crosstalk (I				P 75	/ 19	# 25
limited, multiple distur alien FEXT (MDAFEX	ber alien near-end crosstalk (I			C/ 79 SC 79.3 Anslow, Pete	P 75 Ciena	L 19	# 25
limited, multiple disturi alien FEXT (MDAFEX SuggestedRemedy change to: To bound t loss and alien FEXT lo	ber alien near-end crosstalk (I T) loss is specified. he total alien NEXT oss coupled between link segr	MDANEXT) loss nents, multiple d	and multiple disturber listurber alien near-end	CI 79 SC 79.3	Ciena Comment Status A	L 19	
limited, multiple disturl alien FEXT (MDAFEX SuggestedRemedy change to: To bound t loss and alien FEXT lo crosstalk (MDANEXT)	ber alien near-end crosstalk (I T) loss is specified. he total alien NEXT	MDANEXT) loss nents, multiple d	and multiple disturber listurber alien near-end	Cl 79 SC 79.3 Anslow, Pete Comment Type E	Ciena Comment Status A e "TBD 8 to 255"	L 19	
limited, multiple disturi alien FEXT (MDAFEX SuggestedRemedy change to: To bound t loss and alien FEXT lo crosstalk (MDANEXT) Response	ber alien near-end crosstalk (I T) loss is specified. the total alien NEXT pss coupled between link segr loss and multiple disturber al	MDANEXT) loss nents, multiple d	and multiple disturber listurber alien near-end	Cl 79 SC 79.3 Anslow, Pete Comment Type E "TBD 8-255" should b SuggestedRemedy	Ciena Comment Status A e "TBD 8 to 255"	L 19	# 25 Editoria
limited, multiple distur alien FEXT (MDAFEX SuggestedRemedy change to: To bound t loss and alien FEXT lo crosstalk (MDANEXT) Response ACCEPT. CI 40 SC 40.6 Anslow, Pete Comment Type E	ber alien near-end crosstalk (I T) loss is specified. the total alien NEXT oss coupled between link segr loss and multiple disturber al <i>Response Status</i> C <i>P</i> 71	MDANEXT) loss nents, multiple d ien FEXT (MDAF	and multiple disturber listurber alien near-end FEXT) loss is specified. # 23 <i>Editorial</i>	Cl 79 SC 79.3 Anslow, Pete Comment Type E "TBD 8-255" should b SuggestedRemedy Change "TBD 8-255" Response	Ciena Comment Status A e "TBD 8 to 255" to "TBD 8 to 255"	L 19	
limited, multiple distur alien FEXT (MDAFEX SuggestedRemedy change to: To bound t loss and alien FEXT lo crosstalk (MDANEXT) Response ACCEPT. CI 40 SC 40.6 Anslow, Pete Comment Type E As there is no change SuggestedRemedy	ber alien near-end crosstalk (I T) loss is specified. the total alien NEXT loss coupled between link segr loss and multiple disturber al <i>Response Status</i> C <i>P</i> 71 Ciena <i>Comment Status</i> A	MDANEXT) loss nents, multiple d ien FEXT (MDAF	and multiple disturber listurber alien near-end FEXT) loss is specified. # 23 <i>Editorial</i>	Cl 79 SC 79.3 Anslow, Pete Comment Type E "TBD 8-255" should b SuggestedRemedy Change "TBD 8-255" Response	Ciena Comment Status A e "TBD 8 to 255" to "TBD 8 to 255"	L 19	

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 **75** Li **19**

C/ 79 SC 79.3.2 Anslow, Pete	P 75 Ciena	L 31	# 26	C/ 79 SC 79.3.2 Yseboodt, Lennart	P 75 Philips	L 48	# 293
Comment Type E The editing instruction:	Comment Status A "Change 79.3.2 as follows:"	is there twice.	Editoiral	Comment Type TR "Type 1 and Type 2 d	Comment Status A evices shall not support the Ty	ype 3 and Type	4 extension."
SuggestedRemedy Delete the second inst Response ACCEPT.	ance. Response Status C			which was the whole p It also precludes T1/2			
Cl 79 SC 79.3.2 Schindler, Fred	P 75 Seen Simply,	<i>L</i> 47 Cisco, T	# 130). <i>SuggestedRemedy</i> Remove quoted text.			
Comment Type TR Added text, "Type 1 and Type 2 de	Comment Status A vices shall not support the T	ype 3 and Type	LLDP 4 extension."	Response ACCEPT IN PRINCIP	Response Status C LE.		
maximum available po	cy types from using TLVs, Po wer, Autoclass, and Power d required to place in all Type	one. The existin	ng text does indicate	No changes to draft. LLDP ad hoc was forr This comment resolve			
Strike the called-out te				C/ 79 SC 79.3.2.2 Anslow, Pete	Р 76 Ciena	L 44	# 27
Response ACCEPT IN PRINCIPL OBE by 293	Response Status W E.			Comment Type E The second and third not part of the base st	Comment Status A sentence in strikethrough font andard.	t (starting "Type	<i>Editorial</i> 3 or Type 4 PSEs") is
### ### ###				SuggestedRemedy Remove the two sente	ences starting "Type 3 or Type	e 4 PSEs" on line	es 44 through 47.
Comment 293 has the ACCEPT IN PRINCIPL				Response ACCEPT.	Response Status C		
No changes to draft. LLDP ad hoc was form	ed.						

Pa **76** Li **44**

Cl 79 SC 79.3.2.5 P 79 L 16 # 294	Cl 79 SC 79.3.2.5 P 79 L 40 # 295
Yseboodt, Lennart Philips	Yseboodt, Lennart Philips
Comment Type TR Comment Status D LLDP	Comment Type TR Comment Status A LLDF
"The PD requested power value field shall contain the PD's requested power value defined in Table 79-5, for Type 1, Type 2, and single-signature Type 3 and Type 4 PDs. The fields for PD requested power value shall be set to the sum of PD requested power value Mode A and PD requested power value Mode B in Table 79- 6a, for Type 3 and Type 4 dual- signature PDs."	D2.4: "PD requested power value" is the maximum input average power (see 33.3.8.2 and 145.3.8.2) the PD may draw. D2.3: "PD requested power value" is the maximum input average power (see 33.3.8.2 and 145.3.8.2) the PD wants to draw.
This makes use of this field mandatory for Type 1 PDs, which was not the intention. We really only need to specify what dual-sigs need to do. SuggestedRemedy	This was changed as part of the many changes to dual-sig LLDP and was overlooked during review. The current version imposes a requirement on the PD power consumption, something that does not belong in Clause 79.
"The PD requested power value field shall contain the PD's requested power value defined	'wants to' gives personality to the PD (<= just for Fred!)
in Table 79-5."	SuggestedRemedy
Append after: "Dual-signature Type 3 and Type 4 PDs shall use the sum of the PD requested power value Mode A and Mode B fields as the value for this field."	Replace by: "PD requested power value" is the maximum input average power (see 33.3.8.2 and 145.3.8.2) the PD intends to draw.
Proposed Response Response Status Z	Response Response Status C
REJECT.	ACCEPT IN PRINCIPLE.
This comment was WITHDRAWN by the commenter. CI 79 SC 79.3.2.5 P 79 L 16 # [131] Schindler, Fred Seen Simply, Cisco, T	"PD requested power value" is the maximum input average power (see 33.3.8.2 and 145.3.8.2) the PD is requesting.
Comment Type ER Comment Status A LLDP	
The text, "The PD requested power value field shall contain the PD's requested power value defined in Table 79-5, for Type 1, Type 2, and single-signature Type 3 and Type 4 PDs. The fields for PD requested power value shall be set to the sum of PD requested power value Mode A and PD requested power value Mode B in Table 79-6a, for Type 3 and Type 4 dual- signature PDs."	
Incorrectly reference the field of Table 79-5, which is PD requested power value. The fix removes PD's and replaces it with PD.	
SuggestedRemedy	
Replace the called out text with, "The PD requested power value field shall contain the PD requested power value defined in Table 79-5, for Type 1, Type 2, and single-signature Type 3 and Type 4 PDs. The fields for PD requested power value shall be set to the sum of PD requested power value Mode A and PD requested power value Mode B in Table 79-6a, for Type 3 and Type 4 dual- signature PDs."	

Response

ACCEPT.

Response Status C

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

Pa **79** Li **40**

		SC 79.3.2.6	P 79	L 49	# 133	
Yseboodt, Lennart Philips	Schindler, Fre		Seen Simply,	, Cisco, T		
Comment Type TR Comment Status D LLDP	Comment Typ	e ER	Comment Status A			LLDP
"The PSE allocated power value field shall contain the PSE's allocated power value defined in Table 79-6 for PSEs connected to single-signature PDs and Type 1 and Type 2 PDs." Similar issue as for the PD requested power.	power valı a dual-sigi value Alte	ue Alternative nature PD for rnative A field	llocated power value Alterna B field shall be provided in Type 3 and Type 4 PSEs. T d and the PSE allocated pow	the PSE allocate The sum of the F ver value Alterna	ted power value fi PSE allocated po ative B field may	ield for wer be
SuggestedRemedy	provided in Type 2 PS		ocated power value field for	a dual-signature	PD for Type 1 a	ind
"The PSE allocated power value field shall contain the PSE's allocated power value defined in Table 79-6." Append after:		lude a refere	nce to the defining table, and	d the sentence of	can be reordered	to
"Type 3 and Type 4 PSEs connected to a dual-signature PD shall use the sum of the PSE	SuggestedRer	nedy				
allocated power value Alternative A and Alternative B fields as the value for this field."		ne called-out				
Delete (line 49-54): "The sum of the PSE allocated power value Alternative A field and the PSE allocated power value Alternative B field shall be provided in the PSE allocated power value field for a dual-signature PD for Type 3 and Type 4 PSEs. The sum of the PSE allocated power value Alternative A field and the PSE allocated power value Alternative B	power valu defined in sum of the value Alte	ue Alternative Table 79-6 fo PSE allocat rnative B field	llocated power value Alterna B field shall be provided in to pr Type 3 and Type 4 PSEs of ed power value Alternative A I may be provided in the PSI and Type 2 PSEs connected	the PSE allocate connected to a c tield and the P E allocated pow	ted power value fi dual-signature PI PSE allocated pow ver value field def	ield D. The ver
field may be provided in the PSE allocated power value field for a dual- signature PD for Type 1 and Type 2 PSEs."	Response ACCEPT	IN PRINCIPL	Response Status C E.			
Proposed Response Response Status Z						
REJECT.	Editor to a	idd reference	to Table 79-6.			
This comment was WITHDRAWN by the commenter.	-	SC 79.3.2.6	P 79	L 50	# 148	
	Stewart, Heath	n	Analog Devic	es		
CI 79 SC 79.3.2.6 P 79 L 46 # 132			0			
	Comment Typ	e TR	Comment Status A			LLDP
Schindler, Fred Seen Simply, Cisco, T Comment Type ER Comment Status A LLDP The text, "The PSE allocated power value field shall contain the PSE's allocated power value	Comment Typ Awkward a The sum o value Alte	e TR and backward of the PSE al rnative B field	0	ive A field and t	the PSE allocated	d power
Schindler, Fred Seen Simply, Cisco, T Comment Type ER Comment Status A LLDP The text, "The PSE allocated power value field shall contain the PSE's allocated power value defined in Table 79-6 for PSEs connected to single-signature PDs and Type 1 and Type 2	Comment Typ Awkward a The sum o value Alte	e TR and backward of the PSE al rnative B field PD for Type 3	Comment Status A ds. Implies requirement is on located power value Alternat d shall be provided in the PS	ive A field and t	the PSE allocated	d power
Schindler, Fred Seen Simply, Cisco, T Comment Type ER Comment Status A LLDP The text, "The PSE allocated power value field shall contain the PSE's allocated power value	Comment Typ Awkward a The sum o value Alte signature SuggestedRer Change for a dual-	e TR and backward of the PSE al rnative B field PD for Type 3 <i>medy</i>	Comment Status A ds. Implies requirement is on located power value Alternat d shall be provided in the PS	ive A field and t E allocated pow	the PSE allocated	d power
Schindler, Fred Seen Simply, Cisco, T Comment Type ER Comment Status A LLDP The text, "The PSE allocated power value field shall contain the PSE's allocated power value defined in Table 79-6 for PSEs connected to single-signature PDs and Type 1 and Type 2 PDs." Incorrectly reference the field of Table 7-6, which should be PSE allocated power value. SuggestedRemedy	Comment Typ Awkward a The sum o value Alte signature SuggestedRen Change for a dual- To	e TR and backward of the PSE al rnative B field PD for Type 3 medy signature PD	Comment Status A ds. Implies requirement is on ocated power value Alternat d shall be provided in the PS 3 and Type 4 PSEs.	ive A field and t E allocated pow s	the PSE allocated	d power
Schindler, Fred Seen Simply, Cisco, T Comment Type ER Comment Status A LLDP The text, "The PSE allocated power value field shall contain the PSE's allocated power value defined in Table 79-6 for PSEs connected to single-signature PDs and Type 1 and Type 2 PDs." Incorrectly reference the field of Table 7-6, which should be PSE allocated power value. SuggestedRemedy Replace the called out text with,	Comment Typ Awkward a The sum o value Alte signature SuggestedRen Change for a dual- To	e TR and backward of the PSE al rnative B field PD for Type 3 medy signature PD	Comment Status A ds. Implies requirement is on ocated power value Alternat d shall be provided in the PS 3 and Type 4 PSEs.	ive A field and t E allocated pow s	the PSE allocated	d power
Schindler, Fred Seen Simply, Cisco, T Comment Type ER Comment Status A LLDP The text, "The PSE allocated power value field shall contain the PSE's allocated power value defined in Table 79-6 for PSEs connected to single-signature PDs and Type 1 and Type 2 PDs." Incorrectly reference the field of Table 7-6, which should be PSE allocated power value. SuggestedRemedy	Comment Typ Awkward a The sum o value Alte signature SuggestedRen Change for a dual- To for Type 3	e TR and backward of the PSE al rnative B field PD for Type 3 medy signature PD	Comment Status A ds. Implies requirement is on ocated power value Alternat d shall be provided in the PS 3 and Type 4 PSEs. for Type 3 and Type 4 PSEs PSEs connected to dual-sign	ive A field and t E allocated pow s	the PSE allocated	d power
Schindler, Fred Seen Simply, Cisco, T Comment Type ER Comment Status A LLDP The text, "The PSE allocated power value field shall contain the PSE's allocated power value defined in Table 79-6 for PSEs connected to single-signature PDs and Type 1 and Type 2 PDs." Incorrectly reference the field of Table 7-6, which should be PSE allocated power value. SuggestedRemedy Replace the called out text with, "The PSE allocated power value field shall contain the PSE allocated power value defined	Comment Typ Awkward a The sum o value Alte signature SuggestedRen Change for a dual- To for Type 3 Response	e TR and backward of the PSE al rnative B field PD for Type 3 medy signature PD	Comment Status A ds. Implies requirement is on ocated power value Alternat d shall be provided in the PS 3 and Type 4 PSEs. for Type 3 and Type 4 PSEs PSEs connected to dual-sign	ive A field and t E allocated pow s	the PSE allocated	d power

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

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	.3.2.6 P 79	L 51	# 149	CI 79 SC 79.3.		L 30	# 297
Stewart, Heath	Analog Devic	es		Yseboodt, Lennart	Philips		
Comment Type 1	FR Comment Status A		LLDP	Comment Type TR	Comment Status A		LLD
This appears to	create a requirement on existing T	ype 1 and Type	2 PSEs.		active while the other mode is a	active, the inactive	e PD requested power
SuggestedRemedy				value Mode (X) fiel	d value shall be set to 0."		
Delete				What is this trying	to do ? The PD may wish to ask	for power on an	unpowered Mode
	PSE allocated power value Alternate B field may be provided in the PS		•	SuggestedRemedy			
	Type 1 and Type 2 PSEs.			Strike sentence.			
Response	Response Status C			Response	Response Status C		
ACCEPT IN PRI	NCIPLE.			ACCEPT IN PRINC	CIPLE.		
Change to:				no changes to draf An LLDP ad hoc w			
value Alternative	PSE allocated power value Alternat	E allocated pow		C/ 79 SC 79.3.	2.6a <i>P</i> 80	L 33	# 298
and Type 2 PSE	s when connected to a dual-signat	ure PD.		Yseboodt, Lennart	Philips		
Chair charters L	2 adhoc.			Comment Type ER	Comment Status A		LLD
		1.00	# 00		equested power value Mode A		
	.3.2.6a <i>P</i> 80 Ciena	L 23	# 28	in Table 79-6a sha	Il be set to value 0, for Type 3 a	nu i ype 4 single-	Signature i D3.
Anslow, Pete	Ciena	L 23		Reword, shorter.	I be set to value 0, for Type 3 a	na Type 4 Single-	Signature i D3.
Anslow, Pete Comment Type E	Ciena E Comment Status A		Editorial		li be set to value 0, for 1 ype 3 a	nu Type 4 single-	
Anslow, Pete Comment Type E "Insert 79.3.2.6a	Ciena		Editorial	Reword, shorter. SuggestedRemedy "Single-signature F	Ds shall set the PD requested p		
Anslow, Pete Comment Type E "Insert 79.3.2.6a SuggestedRemedy	Ciena E Comment Status A a through 79.3.2.6f" should be "Inse	ert 79.3.2.6a thro	Editorial	Reword, shorter. <i>SuggestedRemedy</i> "Single-signature F to 0."	Ds shall set the PD requested p		
Anslow, Pete Comment Type E "Insert 79.3.2.6a SuggestedRemedy	Ciena E Comment Status A	ert 79.3.2.6a thro	Editorial	Reword, shorter. SuggestedRemedy "Single-signature F			

Pa **80** Li **33**

CI 79	SC 70 2 2 C-		1 40			a a a a a a			# 454
Yseboodt	SC 79.3.2.6a Lennart	P 80 Philips	L 46	# 299	Cl 79 Stewart, Heat	SC 79.3.2.6b h	P 81 Analog Devices	L 24	# 151
Comment		Comment Status A		LLDP	Comment Typ		Comment Status A		LLDP
""Dua powe may c	I-signature PD requ value Mode B" are lraw for the respect	ested power value Mode the maximum input avera ive pairset."	age power levels	nature PD requested (see 145.3.8.2) the PD	Redunda A PSE pr place 0 ir	nt shall. The previous oviding power to a	ous shall covers this alread Type 1, Type 2, and single ed power value Alternative /	e-signature T	below. Гуре 3 and Type 4 PD,
	emi-requirement de -signature.	oes not belong here in Cla	use 79. Word in	similar manner as for	SuggestedRe	medy			
Suggeste	dRemedy				Delete The fields	for PSE allocated	d power value Alternative A	and PSF all	located power value
powe	value Mode B" are	ested power value Mode as the maximum input avera					o shall be set to value 0, for		
intenc	Is to draw for the re	spective pairset."			Response	R	esponse Status C		
Response		Response Status C			ACCEPT	IN PRINCIPLE.	-		
powe	value Mode B" are	ested power value Mode as the maximum input avera			A PSE pr		a Type 1, Type 2, or single-s		pe 3 or Type 4 PD, E allocated power value
is req	uesting for the resp	ective mode.			places 0	n the PSE alloca	ted power value Alternative	A and PS	
'	5		/ 21	# 150		e B" fields in Tabl		A and PS	
Cl 79	SC 79.3.2.6b	P 81 Analog Devid	L 21	# 150				A and PS	
C/ 79	SC 79.3.2.6b leath	P 81		# [<u>150</u> <i>LLDP</i>				A and PS	
Cl 79 Stewart, H Comment Typo A PSI place	SC 79.3.2.6b leath <i>Type</i> ER in shall E providing power to	P 81 Analog Devid	ces ngle-signature T	ype 3 and Type 4 PD,				A and PS	
CI 79 Stewart, F Comment Typo A PSI place Altern	SC 79.3.2.6b leath Type ER in shall E providing power to 0 in the "PSE alloc ative B" fields.	P 81 Analog Devid <i>Comment Status</i> A o a Type 1, Type 2, and si	ces ngle-signature T	ype 3 and Type 4 PD,				A and PS	
CI 79 Stewart, H Comment Typo A PSI place Altern Suggeste	SC 79.3.2.6b leath Type ER in shall E providing power to 0 in the "PSE alloc ative B" fields.	P 81 Analog Devid <i>Comment Status</i> A o a Type 1, Type 2, and si	ces ngle-signature T	ype 3 and Type 4 PD,				A and PS	
Cl 79 Stewart, F Comment Typo A PSI place Altern Suggeste	SC 79.3.2.6b death <i>Type</i> ER in shall E providing power to 0 in the "PSE alloc ative B" fields. <i>dRemedy</i> ge place to places	P 81 Analog Devid <i>Comment Status</i> A o a Type 1, Type 2, and si	ces ngle-signature T	ype 3 and Type 4 PD,				A and PS	
Cl 79 Stewart, H Comment Typo A PSI place Altern Suggeste Chang Response	SC 79.3.2.6b death <i>Type</i> ER in shall E providing power to 0 in the "PSE alloc ative B" fields. <i>dRemedy</i> ge place to places	P 81 Analog Devic Comment Status A o a Type 1, Type 2, and si ated power value Alternati	ces ngle-signature T	ype 3 and Type 4 PD,				A and PS	

Pa **81** Li **24** LLDP

CI 79	SC 79.3.2.6c	P 81	L 42	#	134	
Schindler, F	Fred	Seen Simply	Cisco, T			
Comment 7	vpe ER	Comment Status A				IIDP

Comment Type ER Comment Status A

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 Layer 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.

Response Status W

Response

ACCEPT.

C/ 79 SC 79.3.2.6c.4 L5# 300 P 82 Yseboodt, Lennart Philips Comment Type T Comment Status A 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.

Response ACCE		Response Status C			
CI 79	SC 79.3.2.6c	P 82	L 15	# 135	_
Schindler	, Fred	Seen Simpl	y, Cisco, T		_

Comment Type TR Comment Status A 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.

SugaestedRemedv

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"

Response Response Status C

ACCEPT IN PRINCIPLE.

change the text on page 81, line 42 and 49 to read "PSEs connected to a Type 1. Type 2. or single-signature PD set this field to value 7."

so it matches with the table. While a single-signature PD may report Class 0. dualsignature's do not have Class 0 defined and as such cannot report that as the requested Class..

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	Pa 82	Page 20 of 80
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	Li 15	5/25/2017 8:55:40 AM
SORT ORDER: Page, Line		

Cl 79 S Yseboodt, Len	SC 79.3.2.6d	P 83 Philips	L 30	# 301	<i>Cl</i> Table Tuenge, Jas	SC Table 7	′9-7b	P 86 Pacific North	L 50 west Nati	# 228
Comment Typ	e T two stray bits	Comment Status A		LLDP	Comment T See rela	<i>ype</i> E ated commen	ts regarding	nent Status A		Pres: Yseboodt6 Also clarify that the
Per conve 'Push dow	ention in 79, re	served bits should be the h ch that the two reserved bit			SuggestedF Change integer.	e "Voltage acc	curacy" to "\	/oltage resolution.	' Also change "th	nese bits" to "this
Response ACCEPT.		Response Status C			Response	YT IN PRINCII	,	nse Status C		
C/ 79 S Yseboodt, Len	SC 79.3.2.6g nnart	P 85 Philips	L 3	# 302	OBE by	/ 212				
turn the Pl	dd a time dela D back on afte	Comment Status A y field to the request power er this delay.	down LLDP field	Pres: Yseboodt4 I that makes the PSE		# ### ent 212 has th PT IN PRINCII		response:		
SuggestedRer Adopt yse	-	17_powerdowndelay.pdf						easurements.pdf Ill uncertainty fields	s to 16 bits.	
Response ACCEPT I	IN PRINCIPLE	Response Status C E.			C/ Table	SC Table 7		P 86 Pacific North	L 52	# 229
Adopt yse Table 79-6		17_powerdowndelay.pdf and	d change "trigger	s" to "requests" in	Tuenge, Jas <i>Comment T</i> Same c	<i>уре</i> Е		nent Status A pr Voltage above.	iwest nati	Pres: Yseboodt6
					SuggestedF Same c		rrent as for	Voltage above.		
					Response ACCEF	YT IN PRINCII	,	nse Status C		
					OBE by	/ 212				
					### ###	# ###				
						ent 212 has th PT IN PRINCII		response:		
								easurements.pdf Ill uncertainty fields	s to 16 bits.	

Pa **86** Li **52** Page 21 of 80 5/25/2017 8:55:40 AM

C/ TableSC Table 79-7bP 87L 5Tuenge, JasonPacific Northwest Nati	# 230	C/ 145 SC 145 Yseboodt, Lennart	P 99 Philips	L 1	# 253
Comment Type E Comment Status A Same comment for Power as for Voltage above.	Pres: Yseboodt6	<i>Comment Type</i> ER We have 77 occuranc	Comment Status A es of 'class event' and 7 occu	rances of 'classi	Editorial
SuggestedRemedy Same change for Power as for Voltage above. Response Response Status C ACCEPT IN PRINCIPLE.		SuggestedRemedy Replace 'classification Response ACCEPT.	event' by 'class event'. Response Status W		
OBE by 212		Cl 145 SC 145.1 Yseboodt, Lennart	P 99 Philips	L 17	# 254
Comment 212 has the following response: ACCEPT IN PRINCIPLE. adopt yseboodt_06_0517_Ildpmeasurements.pdf		Type 2 devices."	Comment Status A Type 3 and Type 4 devices a gh only the interaction is spe		<i>Editorial</i> on with Type 1 and
with editorial license to expand all uncertainty fields to 16 bits. C/ Table SC Table 79-7b P 87 L 8 Tuenge, Jason Pacific Northwest Nati	# 231	SuggestedRemedy "This clause specifies and Type 2 devices."	Type 3 and Type 4 devices a	s well as their in	teraction with Type 1
Comment Type E Comment Status A See related comments regarding subclause 30.12.2.1.18z7 above. Also	Pres: Yseboodt6 clarify that the	Response ACCEPT.	Response Status C		
integer (rather than each bit) should be 1 to 32. SuggestedRemedy Same change for Energy as for Voltage above.		This comment resolve	s comment: 100		
Response Response Status C ACCEPT IN PRINCIPLE.					
OBE by 212 ### ### ###					
Comment 212 has the following response: ACCEPT IN PRINCIPLE.					
adopt yseboodt_06_0517_lldpmeasurements.pdf					

with editorial license to expand all uncertainty fields to 16 bits.

Pa **99** Li **17**

C/ 145 Jones, Chao	SC 145.1	P 99 Cisco	L 17	# 100	C/ 145 SC 145 . Walker, Dylan	1.3 <i>P</i> 101 Cisco	L 21	# 250
	"This clause sp be 2 devices." n	Comment Status A ecifies Type 3 and Type 4 c nakes it sound like we are on			Comment Type ER "A power system o them."	Comment Status A consists of a single PSE, a single I	PD, and the lin	Editoria k section connecting
uggestedR		specifies Type 3 and Type	4 devices inclu	ding their interaction		o be further emphasized.		
	be 1 and Type 2				,	mments #271, #255, and #308)		
esponse		Response Status W			SuggestedRemedy			
	T IN PRINCIPL	Е.			Change: "A power system o them."	consists of a single PSE, a single I	PD, and the lin	k section connecting
OBE by	254				To:			
### ### Comme ACCEP	ent 254 has the	following response:				tem consists only of a single PSE	, a single PD, a	and the link section
	ted remedy:				Response	Response Status C		
"This cla	,	Type 3 and Type 4 devices a	as well as their ir	nteraction with Type 1	ACCEPT.			
/ 145 seboodt, L	SC 145.1.3 ennart	P 101 Philips	L 21	# 255	Vote: Accept: 8 Reject: 1			
omment T	ype ER	Comment Status A		Editorial	abstain: 4			
"PSEs a both."	and PDs may b	e of a Type defined in Claus	e 33, Clause 14	5, or a combination of	C/ 145 SC 145. Thompson, Geoff	1.3 P 101 GraCaSI S.A.	L 31	# 203
Could b	e interpreted to	mean a device can be mult	iple Types, whic	h is not what is meant	•			01
here.					Comment Type ER	Comment Status R 02.3bt/D2.4: Channel pairset maxim		Channe rosistance (PCh_O)
uggestedR	2					52.550/DZ.4. Ghannei pairset maxii		
"The PS combina		be of a Type defined in Clau	ise 33 or Clause	145 in any	SuggestedRemedy Proposed text for F O)	P802.3bt/D2.5: Link section pairse	et maximum DC	C loop resistance (RLS,
(this wa	s tricky to form	ulate as intended, please ch	eck)		Response	Response Status W		
esponse ACCEP	T IN PRINCIPL	Response Status C E.			REJECT.			
	e with:				There is no technic	cal reason to change the paramete	er name.	
Replace								

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 **101** Li **31** Page 23 of 80 5/25/2017 8:55:40 AM

C/ 145 SC 145.1.3 P 102 L 13 # 86 Johnson, Peter Sifos Technologies Sifos Technologies Sifos Technologies Sifos Technologies	C/ 145 SC 145.1.3 P 102 L 22 # 31 Beia, Christian ST Microelectronics ST Microelectronics # 31
Comment Type E Comment Status A Editorial The sentence "The supported value of RCh depends on the PSE Type and is defined in Table 145-1." is not really true any more. Both types in the table have the same Rch. SuggestedRemedy Replace with "RCh is defined in Table 145-1." Replace With "RCh is defined in Table 145-1."	Comment TypeTComment StatusAPres: Stover"VPD is voltage at the PD PI measured between any positive conductor of a pair and any negative conductor of the corresponding pair.VPSE is voltage at the PSE PI measured between any positive conductor of a pair and any negative conductor of the corresponding pair."VPSE is voltage at the PSE PI measured between any positive conductor of a pair and any negative conductor of the corresponding pair."They are not the same definitions as used in Clause 33. The use of "pairset" is more clear and coherent
Response Response Status C ACCEPT.	SuggestedRemedy Replace the called out text with:
C/ 145 SC 145.1.3 P 102 L 22 # 158 Stover, David Analog Devices Analog Devices Image: Comparison of the second secon	"VPD is voltage at the PD PI measured between any positive conductor of a pairset and any negative conductor of the same pairset.
Comment Type TR Comment Status A Pres: Stover1 TODO 2.3: "Update VPSE, VPD, and PI definitions to include 2-pair and 4-pair. Remove 'at the XXX PI' from our draft." SuggestedRemedy See stover_01_0417.pdf Response Response Status C ACCEPT. adopt stover_01_0517.pdf This comment resolves comment: 31 Status	VPSE is voltage at the PSE PI measured between any positive conductor of a pairset and any negative conductor of the same pairset." Response Response Status C ACCEPT IN PRINCIPLE. OBE by 158 ### ### ### Comment 158 has the following response: ACCEPT. adopt stover_01_0517.pdf
	C/ 145 SC 145.1.3.2 P 102 L 42 # 204 Thompson, Geoff GraCaSI S.A. GraCaSI S.S. GraCaSI S.S. <t< td=""></t<>
	Comment Type ER Comment Status A Pres: Darshan14 Current text in P802.3bt/D2.4: 145.1.3.2 Channel requirements Pres: Darshan14
	SuggestedRemedy Proposed text for P802.3bt/D2.5: 145.1.3.2 Link section requirements
	Response Response Status W ACCEPT IN PRINCIPLE.
	Editor to replace "channel" with "link section" while considering the surrounding text for all comments marked with REF204 and this comment.

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C/ 145	SC 1	45.1.3.2	P 102	L 44	# 20	5	C/ 145	SC	145.2.1	P 103	L 20	# 101
Thompsor	n, Geoff		GraCaSI S.A.				Jones, Cha	d		Cisco		
Comment	Туре	ER	Comment Status A			Channel	Comment T	ype	ER	Comment Status A		Editoria
			D2.4: Within Clause 145 and ctrical path on which the pow						"A PSEs er tense.	can be categorized as either	r a Type 1, Type	e 2, Type 3 or Type 4
Suggested	dRemedy	/					Suggested	Remed	ły			
			Bbt/D2.5: Within Clause 145				change	to: "A	PSE can	be categorized as either a T	ype 1, Type 2,	Type 3 or Type 4 PSE."
	to the po aces (PIs		nt medium connection betwe	en two and onl	y two active I	Power	Response			Response Status C		
Response		,-	Response Status W				ACCEF	'T IN F	PRINCIPL	E.		
ACCE	PT IN PI	RINCIPLE	•				Change	e to: "A	NPSE car	be categorized as a Type 1	, Type 2, Type 3	3, or Type 4 PSE."
REF 2	204						This co	mmen	t resolves	comment: 87		
C/ 145	SC 1	45.1.3.2	P 102	L 47	# 20	6	C/ 145	SC	145.2.1	P 103	L 20	# 87
Thompsor	hompson, Geoff GraCaSI S.A.						Johnson, Pe	eter		Sifos Techno	ogies	
Comment	Туре	ER	Comment Status A			Channel	Comment T	ype	Е	Comment Status A		Editoria
			D2.4: Link sections for all Ty				"A PSE	s can.	." - typo			
			for twisted-pair cabling as s r to Annex 33A for more info				Suggested	Remed	ły			
chann	el require	ements fo	r pair-to-pair resistance unba	lance.			"A PSE	can."				
Suggested	dRemedy	/					Response			Response Status C		
			Bbt/D2.5: Link sections for al quirements for twisted-pair c				ACCEPT IN PRINCIPLE.					
11801	:2002 an	nd ANSI/T	A-568-C.2. Refer to Annex	33A for more in			OBE by	101				
Response			Response Status C				### ###	####				
ACCE	PT IN PI	RINCIPLE								following response:		
Chang	ge to:						ACCEF	'T IN F	PRINCIPL	E.		
require 568-C	ements fo .2. Refer	or twisted to Annex	es shall comply with the intra pair cabling as specified in l 145A for more information i	SO/IEC 11801	2002 and AN		Change	e to: "A	NPSE car	be categorized as a Type 1	, Туре 2, Туре 3	3, or Type 4 PSE."
pair re	esistance	unbalanc	e when operating over 4 pai	΄S.								

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

Remove the last two sentences. Why ? While they are not wrong, they raise questions that at this point in the text are unneeded. Questions that are then not answered unless we read through 145.2.7. The main statement is that PSEs and PDs will interoperate. Let's leave the power demotion stuff for the classification section. Response Response Status C ACCEPT IN PRINCIPLE. Remove last sentence. Remove last sentence of paragraph on page 172, line 24. This comment resolves comments: 88, 152 This comment resolves comments: 88, 152											
"Type 1, Type 2, Type 3, and Type 4 PSEs interoperate with Type 1, Type 2, Type 3, and Type 4 PDs, subject to power limitations. See 145.2.7. The PD may then operate in a reduced power mode." The referenced sentences use of "then" does not make sense. SuggestedRemedy Remove the last two sentences. Replace Why? While they are not wrong, they raise questions that at this point in the text are unneeded. Type 4 PDs, subject to power limitations. See 145.2.7. The PD may then operate with Type 1, Type 2, Type 3, and Type 4 PSEs interoperate with Type 1, Type 2, Type 4 PDs, subject to power limitations. See 145.2.7. The PD may then operate unders were reduced power mode. Why? While they are not wrong, they raise questions that at this point in the text are unneeded. Ouestions that are then not answered unless we read through 145.2.7. The main statement is that PSEs and PDs will interoperate. Let's leave the power demotion stuff for the classification section. Response Response Status W Response Response Status C ACCEPT IN PRINCIPLE. OBE by 256 Remove last sentence of paragraph on page 172, line 24. This comment resolves comments: 88, 152 Comment 256 has the following response: ACCEPT IN PRINCIPLE. Remove last sentence. Remove last sentence. Remove last sentence. Remove last sentence.			L 23	# 25	6		-			# 152	
demotion stuff for the classification section. Response Response Status C ACCEPT IN PRINCIPLE. Remove last sentence. Remove last sentence of paragraph on page 172, line 24. This comment resolves comments: 88, 152 Remove last sentence. Remove last sentence. Remove last sentence. Remove last sentence of paragraph on page 172, line 24. Comment 256 has the following response: ACCEPT IN PRINCIPLE. Remove last sentence.	 "Type 1, Type 2, Type 3, and Type 4 PSEs interoperate with Type 1, Type 2, Type 3, and Type 4 PDs, subject to power limitations. See 145.2.7. The PD may then operate in a reduced power mode." SuggestedRemedy Remove the last two sentences. Why ? While they are not wrong, they raise questions that at this point in the text are unneeded. Questions that are then not answered unless we read through 145.2.7.					The referenced sentences use of "then" does not make sense. SuggestedRemedy Replace Type 1, Type 2, Type 3, and Type 4 PSEs interoperate with Type 1, Type 2, Type 3, and Type 4 PDs, subject to power limitations. See 145.2.7. The PD may then operate in a reduced power mode. With Type 1, Type 2, Type 3, and Type 4 PSEs interoperate with Type 1, Type 2, Type 3, and Type 4 PDs, subject to power limitations. See 145.2.7. When power limitations are present					
Remove last sentence.OBE by 256Remove last sentence of paragraph on page 172, line 24.### ###This comment resolves comments: 88, 152Comment 256 has the following response: ACCEPT IN PRINCIPLE.Remove last sentence.Remove last sentence.	demotion stuff for the c Response	The main statement is that PSEs and PDs will interoperate. Let's leave the power demotion stuff for the classification section.					Response Response Status W				
Remove last sentence of paragraph on page 172, line 24. Comment 256 has the following response: This comment resolves comments: 88, 152 ACCEPT IN PRINCIPLE. Remove last sentence. Remove last sentence.						OBE by 256					
						Comment 256 has the following response:					
Remove last sentence of paragraph on page 172, line 24.									e 24.		

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

C/ 145 SC 145.2.1 P 103 L 24 # 88 Johnson, Peter Sifos Technologies Sifos Technologies Sifos Technologies Sifos Technologies	C/ 145 SC 145.2.1 P 103 L 41 # 257 Yseboodt, Lennart Philips
Comment Type E Comment Status A Editorial The sentence "The PD may then operate in a reduced power mode." would make more sense with a qualifier. E E	Comment Type E Comment Status A Editorial Missing space before 'and' in footnote a of Table 145-2. SuggestedRemedy Editorial
SuggestedRemedy Change to "Depending upon the PSE capability, a PD may need to operate in a reduced power mode." Response Response Status C	Fix. Response Response Status C ACCEPT.
ACCEPT IN PRINCIPLE. OBE by 256	Cl 145SC 145.2.3P 108L 1# 258Yseboodt, LennartPhilipsComment TypeEComment StatusAEditorial
### ### ### Comment 256 has the following response: ACCEPT IN PRINCIPLE. Remove last sentence.	Figure 145-8 is clipped at the top. SuggestedRemedy Fix. Response Response Status C ACCEPT.
Remove last sentence of paragraph on page 172, line 24. C/ 145 SC 145.2.1 P 103 L 26 # 153 Stewart, Heath Analog Devices 4 153	C/ 145 SC 145.2.3 P 108 L 1 # 259 Yseboodt, Lennart Philips
Comment Type ER Comment Status A Editorial Need to add Type 3 and Type 4 for clarity SuggestedRemedy Editorial	Comment Type ER Comment Status A Editorial Editor blindly executed comment #272 which produced the following gem in Figures 145-8 and up: "Non-PSE Powering Equipement".
Replace Table 145-2 summarizes the supported parameters of PSEs. With Table 145-2 summarizes the supported parameters of Type 3 and Type 4 PSEs.	SuggestedRemedy Change all occurences to "Non-powering equipment". Response Response Status W
Response Response Status C ACCEPT.	ACCEPT.

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

Pa **108** Li **1**

C/ 145 SC 145 P 112 L 1 # 260 Yseboodt, Lennart Philips	C/ 145 SC 145.2.5.1.1 P 112 L 41 # 234 Walker, Dylan Cisco
Comment Type ER Comment Status A Editoria	Comment Type ER Comment Status A PSE SD
The following redundant references to Type still exist in Clause 145: - page 112, subclause 145.2.5.1.1 title "Type 3 and Type 4 specific overview and timing" - page 122, subclause 145.2.5.5 title "Type 3 and Type 4 timers" - page 176, subclause 145.3.3.6 title "Type 3 and Type 4 single-signature functions" - page 271, subclause 145B.1 title "Type 3 and Type 4 CC_DET_SEQ timing diagrams"	Since another comment seeks to remove the explicit ping pong behavior from the SD, a note to provide a hint to the reader that Alternative role reversal is probably a good idea (without going into the gory details) seems appropriate. (D2.3 TODO - Comment #247)
SuggestedRemedy	SuggestedRemedy
Remove "Type 3 and Type 4".	Insert:
Response Response Status W	"NOTE-During 4-pair operation, it may be necessary to swap the roles of Alternative A and Alternative B in IDLE in order to detect a PD."
ACCEPT IN PRINCIPLE.	Response Response Status C
Delete Title of 145.2.5.1.1 and move text in that section to end of 145.2.5.1.	ACCEPT.
Remove "Type 3 and Type 4" from the following: - page 122, subclause 145.2.5.5 title "Type 3 and Type 4 timers" - page 176, subclause 145.3.3.6 title "Type 3 and Type 4 single-signature functions"	Cl 145 SC 145.2.5.1.1 P 112 L 51 # 136 Schindler, Fred Seen Simply, Cisco, T Se
- page 271, subclause 145.5.5 title "Type 3 and Type 4 CC_DET_SEQ timing diagrams"	Comment Type ER Comment Status A PSE SD
C/ 145 SC 145.2.5.1.1 P 112 L 37 # [233] Walker, Dylan Cisco Cisco	The existing text, "Monitoring of MPS is handled by Figure 145-17 and Figure 145-18. Monitoring of inrush is handled by Figure 145-19."
Comment Type TR Comment Status A PSE S	
alt_pri can be assigned in TEST_MODE. Also, the shall is relocated within its sentence to	Suggested Remedy
strengthen it and for readability. The sentences before and after are also modified to flow better.	Replace the called-out text with, "The state diagram in Figure 145-17 and Figure 145-18 monitors MPS. The state diagram
(D2.3 TODO - Comment #247)	in Figure 145-19 monitors inrush."
SuggestedRemedy	Response Response Status W ACCEPT IN PRINCIPLE.
Change: "In the state diagram, Alternative A and Alternative B are depicted as serving distinct roles during 4-pair operation. In any implementation, the behaviors of the Alternatives may be reversed as long as the roles are established in IDLE and shall be maintained in every other state. In the state diagram, the Alternatives are named the Primary Alternative and	OBE by 304
the Secondary Alternative."	Comment 304 has the following response: ACCEPT.
To: "In the state diagram, each Alternative serves a distinct role during 4-pair operation. In any implementation, the roles of the Alternatives shall be established in IDLE or TEST_MODE and be maintained in every other state. In the state diagram, the roles of the Alternatives are named Primary Alternative and Secondary Alternative."	Suggested remedy: Change "is handled by" to "is described by the state diagrams in" (for MPS) and "is described by the state diagram in" (for inrush)
Response Response Status W	
ACCEPT.	
TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editoria COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open	

SORT ORDER: Page, Line

10 AM

C/ 145 SC 145.2.5.1		L 51	# 304		-	145.2.5.4	P 114	L 20	# 235				
Zimmerman, George	CME Consult	ing/Aqua			Walker, Dylan		Cisco						
Comment Type E	Comment Status A			PSE SD	Comment Type	TR	Comment Status A		PSE SL				
	andled by Figure. Monitoring the figures describe state diagonal state diagonal state and the state diagonal state and the state of th		ndled by." nothi	ng is	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								
SuggestedRemedy					still granted	the role of I	Primary despite a nonexisten	t Secondary.					
Change "is handled by' described by the state	to "is described by the state diagram in" (for inrush)	e diagrams in" (1	for MPS) and "is	;	(D2.3 TODO		nt #247)						
Response	Response Status C				SuggestedReme	edy							
ACCEPT.							Change: "A variable used to select which Alternative assumes the role of Primary in the state diagram."						
This comment resolves	comment: 136				"a: Alternati		igned Primary, and Alternativi igned Primary, and Alternativ						
					To: "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, Alternativ B is assigned Secondary Alternative." "b: Alternative B is assigned Primary Alternative. When operating over 4 pairs, Alternativ A is assigned Secondary Alternative."								
					Response ACCEPT IN	PRINCIPL	Response Status C E.						
					Change to:								
					state diagrar A: Alternativ Alternative E	ative. When oper ative. ative. When oper	nary Alternative in the rating over 4 pairs, rating over 4 pairs,						

Pa **114** Li **20**

C/ 145 SC 145.2.5. 4 Walker, Dylan	P 119 Cisco	L 4	# 236	C/ 145 SC 145.2.5.6 Stover, David	P 125 Analog Devices	L 43	# 161		
Comment Type TR	Comment Status A		PSE SD	Comment Type ER	Comment Status A		Editoria		
	<pre>alt_pri assignment is clarified/c explicitly showing alternation i</pre>			"The tlce timer." "to a lines; missing a space	allow abbreviated classtiming du between words.	uration." Time	name broken across		
(D2.3 TODO - Comme	ent #247)			SuggestedRemedy	single line. Add e energe betwee	n "alagatiming	n		
SuggestedRemedy				_	single line. Add a space betwee	n classuming			
Delete "pingpong_en"	variable.			Response	Response Status W				
Response	Response Status W			ACCEPT.					
ACCEPT.				C/ 145 SC 145.2.5.0	6 P 126	L 23	# 162		
C/ 145 SC 145.2.5.6	SC 145.2.5.6 P125 L 27 # 251		Stover, David Analog Devices						
Walker, Dylan	Cisco	L L I	# <u>2</u> 31	Comment Type ER	Comment Status A		Editoria		
Comment Type ER	Comment Status A		Editorial	"When a PD requests where Class needs pro	a higher class than a PSE can soper case.	support". I beli	eve this is an instance		
Function "do_cxn_chk"	is not alphabetized correctly.			SuggestedRemedy					
SuggestedRemedy Please relocate to pag	e 127 before function "do_det	ect_pri".		"When a PD requests (pse_req_pwr_sec).	a higher Class than PSE can su	upport." Fix he	re and on P127, L2		
Response ACCEPT.	Response Status W			Response ACCEPT.	Response Status W				
C/ 145 SC 145.2.5.6 Schindler, Fred	5 P 125 Seen Simply,	<i>L</i> 42 Cisco, T	# 137	C/ 145 SC 145.2.5.6 Stover, David	5 P 126 Analog Devices	L 33	# 163		
Comment Type ER Fix typo "classtiming"	Comment Status A		Editorial	Comment Type ER "pse_allocated_pwr_p	Comment Status A	, proper case	Editoria. following semicolon.		
SuggestedRemedy Use "class timing". Response	Response Status W			SuggestedRemedy "pse_allocated_pwr_pri: This variable." Fix here and on P127, L12 (pse_allocated_pwr_sec); P128, L7 (do_update_pse_allocated_pwr); P128, L21 (do_update_pse_allocated_pwr_pri); P128, L32 (do_update_pse_allocated_pwr_sec).					
ACCEPT.				Response ACCEPT.	Response Status W		/		

Pa **126** Li **33** C/ 145 SC 145.2.5.7 P 129 L 13 # 237 C/ 145 SC 145.2.5.7 P 130 L 6 # 238 Walker, Dylan Walker, Dylan Cisco Cisco Comment Type TR Comment Status A PSF SD Comment Type TR Comment Status A PSE SD Via other comments, alt_pri assignment is clarified/corrected and the ping pong behavior is alt_pri should be user defined in TEST_MODE. covered by a note, so explicitly showing alternation is no longer required. (D2.3 TODO - Comment #247) (D2.3 TODO - Comment #247) SuggestedRemedy SuggestedRemedy In TEST MODE: In IDLE: Change: "alt pri <= a" Change: "IF(pingpong_en) THEN IF(alt_pri=a) THEN To: alt pri <= b "alt pri <= user defined" ELSE Response Response Status W alt_pri <=a ACCEPT. END END" SC 145.2.5.7 C/ 145 P 132 L 16 # 42 To: Darshan, Yair Mirosemi "alt_pri <= user defined Comment Type ER Comment Status A Pres: Darshan6 END" Editor to scan all state machines (PSE, PD, DLL) and whenever we have Response Response Status W "variable<operator>X" e.g. "pd class sig=4" add parantesis e.g. "(pd class sig=4)". ACCEPT. SuggestedRemedy SC 145.2.5.7 C/ 145 P 129 # 261 L 31 Adopt request in the comment Yseboodt, Lennart Philips Response Response Status C Comment Type T Comment Status A PSE SD ACCEPT IN PRINCIPLE. See: http://www.ieee802.org/3/bt/public/mar17/yseboodt_09_0317_startdetectfix.pdf adopt darshan_06_0517.pdf This was a late submission in March, which was presented. We did forget to adopt it, as such it didn't make into the draft. SuggestedRemedy Adopt http://www.ieee802.org/3/bt/public/mar17/yseboodt_09_0317_startdetectfix.pdf Response Response Status C ACCEPT.

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

Pa **132** Li **16**

C/ 145 SC 145.2.5.7 P 132 L 33 # 43 Darshan, Yair Mirosemi Mirosemi <td< th=""><th>C/ 145 SC 145.2.5.7 P 133 L 34 # 164 Stover, David Analog Devices Analog Devices 164</th></td<>	C/ 145 SC 145.2.5.7 P 133 L 34 # 164 Stover, David Analog Devices Analog Devices 164
Comment Type TR Comment Status A Pres: Darshan10 TODO #115 D2.3. Comment: On January 2017 meeting we agree that in yseboodt_0117.pdf page 3 we will use optional variables to allow 2 fingers and 3 fingers (Option 1 and 2) and update the state machine accordingly to add to PSE flexibility. Response: Add TODO (Yair): Create proposal for option to allow 2 or 3 class fingers if pse available power = 4. SuggestedRemedy Adopt darshan_10_0517.pdf	Comment Type ER Comment Status D Editorial "pse_allocated_pwr" assignment is split over 2 lines in state MARK_EV_LAST. SuggestedRemedy Extend width of state box to fit assignment on a single line. Extend width of state box to fit assignment on a single line. Proposed Response Response Status Z REJECT. This comment was WITHDRAWN by the commenter.
Response Response Status C	
ACCEPT IN PRINCIPLE. Adopt darshan_10_0517_final.pdf	C/ 145 SC 145.2.5.7 P 135 L 42 # 165 Stover, David Analog Devices Analog Devices 165
Cl 145 SC 145.2.5.7 P 132 L 43 # 262 Yseboodt, Lennart Philips Comment Type TR Comment Status A PSE SD State 'CLASS_EV3' to 'MARK_EV3' transition incorrectly implemented from baseline. Parens are in the wrong place. SuggestedRemedy	Comment Type TR Comment Status A PSE SD 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"). SuggestedRemedy SuggestedRemedy Replace transition logic from IDLE_ACS to MEASURE_ACS with "MirroredPDAutoclassRequest".
Change to: tcle3_timer_done * (pse_alternative = both) *	Response Response Status C ACCEPT.
(pd_class_sig != 4) * ((pse_avail_pwr >= pd_class_sig + 5) + (pse_avail_pwr > 5))	C/ 145 SC 145.2.5.7 P 137 L 28 # 92 Johnson, Peter Sifos Technologies
Response Response Status C ACCEPT IN PRINCIPLE. ALSO,	Comment Type E Comment Status A PSE SD Typo - State variable pse_avail_pwr_pri_pri has extra "_pri" SuggestedRemedy Pomovo pagend "_pri"
change = to <= in MARK_EV3.	Remove second "_pri" <i>Response Response Status</i> C ACCEPT.

Pa **137** Li **28**

C/ 145 SC 145.2 Darshan, Yair	.5.7 <i>P</i> 138 Mirosemi	L 17	# 44	<i>Cl</i> 145 Walker, Dy	SC 145.2.6 lan	.1 P 145 Cisco	L 37	# 248	
Comment Type TR	Comment Status D		Pres: Darshan11	Comment 7	Type TR	Comment Status A		Connection Chec	
recent developmen inconsistent with th	PSE Class SD for dual-signat ts in single-signature Class s e notion that pd_req_pwr an s. Also, the "pse_allocated_p ss SD.	SD. Particularly, sta d therefore pd_cls_	te CLASS_4PID4 is 4pid are known after 3	return i (D2.3 T	nvalid in a ger ⁻ ODO - Comm	es of Connection Check need leral sense. ents #271, #255, and #308)	to be clarified s	ince the function can	
SuggestedRemedy				Suggested	-				
Adopt darshan_11_ If not ready, keep i				Change: "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					
Proposed Response REJECT.	Response Status Z				ted to a single airsets are inva	-signature PD configuration, lid."	a dual-signature	PD configuration, or	
	WITHDRAWN by the comm	enter.				r power on both pairsets sha			
C/ 145 SC 145.2 ₋ukacs, Miklos	.6 P 145 Silicon La	L 33	# 111	single-		PD as specified in 145.2.7 to configuration, a dual-signature			
		55	[]	Response		Response Status W			
Comment Type ER The text is incomple	Comment Status R		Editorial	ACCEF	РТ.				
"A PSE detecting a	in invalid PD signature on eit e, and if valid may perform c			<i>Cl</i> 145 Anslow, Pe	SC 145 te	<i>P</i> 146 Ciena	L 8	# 29	
SuggestedRemedy				Comment 1	Type E	Comment Status R		Editoria	
	n invalid PD signature on eit			Several table in Clause 145 have blank cells in the min or max columns, which should contain an em-dash					
classification on the	e, and if the PD signature is at pairset."	valid then the PSE	may periorm	SuggestedRemedy					
Response REJECT.	esponse Response Status W					nave a em-dash in currently b 45-7, 145-8, 145-9, 145-10,			
Out of Scope.				Response		Response Status C			
				REJEC	CT.				
						es is intentional. The em-das lack of the em-dash conveys			

Pa **146** Li **8**

C/ 145 SC 145.2.6.5 P 148 L 42 # Zimmerman, George CME Consulting/Aqua	305	Cl 145 SC 145.2 Zimmerman, George	7 <i>P</i> 150 CME Consult	L 19 ing/Aqua	# 306
Comment Type E Comment Status A #ABSOLUTE "NOTE-Detection and rejection criteria for Clause 145 remain u from Clause 33, therefore ensuring interoperability with Clause 33 devices (see 145.2.6.4)." we cannot guarantee interoperability - we strive for it, and we are the purpose of interoperability. SuggestedRemedy Change ", therefore ensuring" to "for the purpose of" Response Response Status C ACCEPT IN PRINCIPLE. C	ee also	L19, P161 L6, P16 places) SuggestedRemedy	Comment Status A accorrect, VPSE is applied "across L21, and P169 L18 (note - this ross " in the indicated instances. Response Status C	phrase is new t	
Change ", therefore ensuring" to "for the purpose of maintaining"		Cl 145 SC 145.2 Thompson, Geoff	7 <i>P</i> 150 GraCaSI S.A.	L 20	# 207
Cl 145 SC 145.2.7 P 150 L 8 # Wendt, Matthias Philips Lighting Comment Type ER Comment Status A original text: "The minimum power output a PSE supports for the PD's assignment when powering a single-signature PD, or supplying power in 2-pair mode, is d Equation (145-2)." Inconsistent with the same sentence for dual-signature below, which doesn't is 'assigned class' tidbit. SuggestedRemedy Change to: "The minimum power output a PSE supports when powering a single-signature supplying power in 2-pair mode, is defined by Equation (145-2)." Append sentence to the previous paragraph (line 6): "The minimum power output a PSE supports depends on the assigned Class. Finally, change the sentence on line 24 to match: "The minimum output power a PSE supports on a pairset when powering a du PD is defined by Equation (145-3)." Response Response Status W ACCEPT. CEPT. CEPT.	defined by mention the re PD, or ."	20, 36, 46, 48. SuggestedRemedy	Comment Status A 2.3bt/D2.4: There are 4 uses of th 802.3bt/D2.5: Replace each inst Response Status W IPLE.		-

Pa **150** Li **20**

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

Pa **150** Li **37**

C/ 145	SC 1	45.2.7	P 150	L 43	# 103	C/ 145 SC	145.2.7	P 151	L 45	# 46
Jones, Chad			Cisco			Darshan, Yair		Mirosemi		
Comment Typ	ре	E	Comment Status A		Editorial	Comment Type	TR	Comment Status A		PSE Powe
145.3.6.2) possessiv	!), the ve. Th	PSE mathematic mathematic provident mathematic prov	ected to the PSE performs y set its minimum supporte were trying to clear this u	ed output power b		on the value PSEAllocate	of the PSI d-PowerVa	essful DLL classification, the AllocatedPowerValue variabl alue values correspond with the 145-24 and 145.5.3.3.5.", mise	le, as defined ir ne maximum po	n Table 145-12. The ower a PD may draw,
SuggestedRe						_ /		140-24 and 140.0.0.0.0. , mix	SSING I SEANOG	
			nnected to the PSE perfor y set THE minimum suppo			SuggestedReme Change text	•			
Response ACCEPT.			Response Status C			of the PSEAI PSEAllocate	locatedPo dPowerVa	_ classification, the assigned (werValue variable when single lue_alt(X) when dual-signatur	e-signature PD e PD is suppor	is supported and ted, as defined in Table
Cl 145		45.2.7	P 151 Mirosemi	L 15	# 45		mum pow	atedPowerValue and PSEAllo er a PD may draw, PClass_P 145.5.3.3.5."		
						Deenenee				
	e signi		Comment Status A ferences between the fixed			Response ACCEPT IN	PRINCIPL	Response Status C E.		
There are 145-11 to the table i SuggestedRe Adopt dar	e signi o the o is 30V emedy	ificant dif calculate N and the	ferences between the fixed d Pclass per equation 145- e calculated value is 27.37 7.pdf	2. See for examp	ower per class in Table	ACCEPT IN Proposed rer "After a succ of the PSEAI Table 145-12 correspond w	nedy, cha essful DLI locatedPo The PSE <i>i</i> th the ma	E. nge quoted text to: _ classification, the assigned (werValue or PSEAllocatedPo EAllocatedPowerValue or PSE aximum power a PD	werValue_alt(X EAllocatedPowe	xariable, as defined in erValue_alt(X) values
There are 145-11 to the table i SuggestedRe	e signi o the o is 30V emedy rshan	ificant dif calculate // and the / _03_051	ferences between the fixed d Pclass per equation 145- e calculated value is 27.37 7.pdf <i>Response Status</i> C	2. See for examp	ower per class in Table	ACCEPT IN Proposed rer "After a succ of the PSEAI Table 145-12 correspond w	nedy, cha essful DLI locatedPo The PSE <i>i</i> th the ma	E. nge quoted text to: _ classification, the assigned (werValue or PSEAllocatedPo EAllocatedPowerValue or PSE	werValue_alt(X EAllocatedPowe	() variable, as defined in erValue_alt(X) values
There are 145-11 to the table i SuggestedRe Adopt dar Response ACCEPT	e signi o the o is 30V emedy rshan IN PF	ificant dif calculate // and the / _03_051 RINCIPLE	ferences between the fixed d Pclass per equation 145- e calculated value is 27.37 7.pdf <i>Response Status</i> C	2. See for examp	ower per class in Table	ACCEPT IN Proposed rer "After a succ of the PSEAI Table 145-12 correspond w may draw, Po Cl 145 SC	nedy, cha essful DLI locatedPo The PSE <i>i</i> th the ma	E. nge quoted text to: _ classification, the assigned 0 werValue or PSEAllocatedPo EAllocatedPowerValue or PSE aximum power a PD or Pclass_PD-2P; see Table P 151	werValue_alt(X EAllocatedPowe 145-28 and 145 <i>L</i> 51	() variable, as defined in erValue_alt(X) values
There are 145-11 to the table i SuggestedRe Adopt dar Response	e signi o the o is 30V emedy rshan IN PF	ificant dif calculate // and the / _03_051 RINCIPLE	ferences between the fixed d Pclass per equation 145- e calculated value is 27.37 7.pdf <i>Response Status</i> C	2. See for examp	ower per class in Table	ACCEPT IN Proposed rer "After a succ of the PSEAI Table 145-12 correspond v may draw, Po	nedy, cha essful DLI locatedPo 2. The PSE <i>i</i> ith the ma class_PD	E. nge quoted text to: classification, the assigned (werValue or PSEAllocatedPo EAllocatedPowerValue or PSE aximum power a PD or Pclass_PD-2P; see Table	werValue_alt(X EAllocatedPowe 145-28 and 145 <i>L</i> 51	() variable, as defined in erValue_alt(X) values 5.5.3.3.5."
There are 145-11 to the table i SuggestedRe Adopt dar Response ACCEPT	e signi o the o is 30V emedy rshan IN PF	ificant dif calculate // and the / _03_051 RINCIPLE	ferences between the fixed d Pclass per equation 145- e calculated value is 27.37 7.pdf <i>Response Status</i> C	2. See for examp	ower per class in Table	ACCEPT IN Proposed rer "After a succ of the PSEAI Table 145-12 correspond v may draw, Po Cl 145 SC Johnson, Peter Comment Type	nedy, cha essful DLL locatedPo The PSE vith the ma class_PD 145.2.7 E	E. nge quoted text to: classification, the assigned G werValue or PSEAllocatedPo EAllocatedPowerValue or PSE aximum power a PD or Pclass_PD-2P; see Table P 151 Sifos Technolo Comment Status A	werValue_ālt(X EAllocatedPowe 145-28 and 145 <i>L</i> 51 ogies	() variable, as defined in erValue_alt(X) values 5.5.3.3.5." # <u>89</u> PSE Clas
There are 145-11 to the table i SuggestedRe Adopt dar Response ACCEPT	e signi o the o is 30V emedy rshan IN PF	ificant dif calculate // and the / _03_051 RINCIPLE	ferences between the fixed d Pclass per equation 145- e calculated value is 27.37 7.pdf <i>Response Status</i> C	2. See for examp	ower per class in Table	ACCEPT IN Proposed rer "After a succ of the PSEAI Table 145-12 correspond w may draw, Po C/ 145 SC Johnson, Peter Comment Type Improve clari	nedy, cha essful DLI locatedPo The PSE vith the ma class_PD 145.2.7 E ty: "PSEs	E. nge quoted text to: classification, the assigned 0 werValue or PSEAllocatedPo EAllocatedPowerValue or PSE aximum power a PD or Pclass_PD-2P; see Table P 151 Sifos Technolo	werValue_ālt(X EAllocatedPowe 145-28 and 145 <i>L</i> 51 ogies	() variable, as defined in erValue_alt(X) values 5.5.3.3.5." # <u>89</u> PSE Class
There are 145-11 to the table i SuggestedRe Adopt dar Response ACCEPT	e signi o the o is 30V emedy rshan IN PF	ificant dif calculate // and the / _03_051 RINCIPLE	ferences between the fixed d Pclass per equation 145- e calculated value is 27.37 7.pdf <i>Response Status</i> C	2. See for examp	ower per class in Table	ACCEPT IN Proposed rer "After a succ of the PSEAI Table 145-12 correspond w may draw, Po C/ 145 SC Johnson, Peter Comment Type Improve clari	nedy, cha essful DLI locatedPo 2. The PSE <i>i</i> th the ma class_PD 145.2.7 E ty: "PSEs sification of	E. nge quoted text to: classification, the assigned 0 werValue or PSEAllocatedPo EAllocatedPowerValue or PSE aximum power a PD or Pclass_PD-2P; see Table P 151 Sifos Technolo Comment Status A that will deliver 4-pair power t	werValue_ālt(X EAllocatedPowe 145-28 and 145 <i>L</i> 51 ogies	() variable, as defined in erValue_alt(X) values 5.5.3.3.5." # <u>89</u> PSE Class
There are 145-11 to the table i SuggestedRe Adopt dar Response ACCEPT	e signi o the o is 30V emedy rshan IN PF	ificant dif calculate // and the / _03_051 RINCIPLE	ferences between the fixed d Pclass per equation 145- e calculated value is 27.37 7.pdf <i>Response Status</i> C	2. See for examp	ower per class in Table	ACCEPT IN Proposed rer "After a succ of the PSEAI Table 145-12 correspond w may draw, Po <i>Cl</i> 145 <i>SC</i> Johnson, Peter <i>Comment Type</i> Improve clari perform class <i>SuggestedRement</i> Change to "F	nedy, cha essful DLI locatedPo 2. The PSE <i>i</i> th the ma class_PD 145.2.7 E ty: "PSEs sification of <i>dy</i> 2SEs that	E. nge quoted text to: classification, the assigned 0 werValue or PSEAllocatedPo EAllocatedPowerValue or PSE aximum power a PD or Pclass_PD-2P; see Table P 151 Sifos Technolo Comment Status A that will deliver 4-pair power t	werValue_ālt(X EAllocatedPowe 145-28 and 145 <i>L</i> 51 ogies to a dual-signat	() variable, as defined in erValue_alt(X) values 5.5.3.3.5." # <u>89</u> <i>PSE Clas</i> sure PD shall
There are 145-11 to the table i SuggestedRe Adopt dar Response ACCEPT	e signi o the o is 30V emedy rshan IN PF	ificant dif calculate // and the / _03_051 RINCIPLE	ferences between the fixed d Pclass per equation 145- e calculated value is 27.37 7.pdf <i>Response Status</i> C	2. See for examp	ower per class in Table	ACCEPT IN Proposed rer "After a succ of the PSEAI Table 145-12 correspond w may draw, Po <i>Cl</i> 145 <i>SC</i> Johnson, Peter <i>Comment Type</i> Improve clari perform class <i>SuggestedRement</i> Change to "F	nedy, cha essful DLI locatedPo 2. The PSE <i>i</i> th the ma class_PD 145.2.7 E ty: "PSEs sification of <i>dy</i> 2SEs that	E. nge quoted text to: _ classification, the assigned (werValue or PSEAllocatedPo EAllocatedPowerValue or PSE aximum power a PD or Pclass_PD-2P; see Table P151 Sifos Technolo Comment Status A that will deliver 4-pair power to n each pairset"	werValue_ālt(X EAllocatedPowe 145-28 and 145 <i>L</i> 51 ogies to a dual-signat	() variable, as defined in erValue_alt(X) values 5.5.3.3.5." # <u>89</u> <i>PSE Clas</i> ture PD shall

Pa **151** Li **51**

C/ 145 SC 145.2.7	P 152	L 24	# 307		C/ 145	SC 145.2.7.1	P 152	L 44	# 138
immerman, George	CME Consulti	ng/Aqua			Schindler, I		Seen Simply,	Cisco, I	
omment Type E	Comment Status A			Editorial	Comment T		omment Status A		Editoria
state" return to "IDLE"	all return to IDLE if it fails or to "IDLE state."	PD. A PSE sha	all return to the IL	JLE			eted "- shall" for setting scanned to confirm this)		
IggestedRemedy					· ·		For example, on page 1		
Change "IDLE state" to "	IDLE"				"Type 3	3 PSEs			
esponse	Response Status C					provide a maximum o	f four class events and	four mark events	for single-signature
ACCEPT IN PRINCIPLE.					PDs. - shall	provide a maximum o	f three class events and	d three mark ever	ts on each pairset for
Change "the IDLE state"	to "IDI F"					gnature PDs."			·
					Where capitali		art? I see a period afte	r "PDs." but the n	ext bullet is not
					"The P conduc magnit - shall	SE PI shall withstand ctor to any other condu- ude of the current thro not exceed IPSEUT-T	n the Clause. For exan without damage the ap uctor within the cable fo ough such a short circu ype3-2P, as defined in ype4-2P, as defined in	plication of short or an indefinite pe it: Equation (145-19	circuits of any riod of time. The), for Type 3 PSEs
							g a colon, and does not just be preceded by a fi		
					". Closi senten	ing punctuation should ces. Lists shall be pre	14, indicates the following d be omitted or phrases ecceded by an introducto cludes the following example.	 Punctuation shore ry sentence explain 	ould be used for
					Begi Inclu senten If at I	n with a capital letter. de final punctuation fo ce.	e of a properly formatted or all items in the list if o in the dashed list is a c s in the list."	one items in the li	
					p170 L p 171 l	44 4x shall 19 11x shall, and bull _1 2x shall, 1x may _34 2x shall	eted mays		
					Suggested	Remedy			
					Force s	should also get the ad A TODO should be as	ith our esteemed Edito lvice of senior IEEE cor ssigned for the changes te the improvements, u	ntributors to craft a required and this	a final solution for comment shall
	ER/editorial required GR/eatthead A/accepted R/rejeated					U/unsatisfied Z/with	Pa 1 Indrawn Li 44		Page 37 of 80 5/25/2017 8:55

SORT ORDER: Page, Line

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provide direction and it has been implemented.

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

Response Response Status C

ACCEPT IN PRINCIPLE.

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

Comment Status A

C/ 145 P 152 SC 145.2.7.1 Sifos Technologies Johnson, Peter

L 53

PSF Class

90

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.

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."

Response

Response Status C

ACCEPT IN PRINCIPLE.

Move sentence to line 23 of page 153. Re-phrase as:

"PSEs that issue more class events than the class they are capable of supporting, in order to determine the PD requested Class, transition to CLASS RESET to reset the PD's class event count."

C/ 145 SC	C 145.2.7.1	P 154	L 3	# 208
Thompson, Geo	off	GraCaSI S.A.		
Comment Type	ER	Comment Status A		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.

Response Response Status C

ACCEPT.

C/ 145 S	C 145.2.7.1	P 154	L 20	# 91	
Johnson, Peter		Sifos Tech	nologies		
Comment Type	т	Comment Status A			4PID

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

SuggestedRemedy

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

Response Response Status C

ACCEPT IN PRINCIPLE.

Replace with:

A PSE that implements 4PID based on classification and is restricted to Class 3 power or less, when connected to a dual-signature PD, shall issue three intial classification events to determine the Type of the connected PD, then transition to either CLASS RESET PRI or CLASS RESET SEC.

C/ 145	SC 145.2.7.2	P 155	L 13	# 209
Thompson	n, Geoff	GraCaSI S.A.		
Comment	Type ER	Comment Status A		Channel
	nt text in P802.3b	t/D2.4:allocate enough pow	er to cope with	increases in channel

resistance due to temperature increase.

SuggestedRemedy

Proposed text for P802.3bt/D2.5: ...allocate enough power to cope with increases in the overall channel resistance due to temperature increase.

Response Response Status C

ACCEPT IN PRINCIPLE.

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

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 155 Li 13

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C/ 145	SC 145.2.8	P 156	L 25	# 47	C/ 145	SC	145.2.8.3	P 159	L 24	# 126
Darshan, Yair		Mirosemi			Picard, Jea	an		Texas Instrum	nents	
Comment Typ	e TR	Comment Status D		Pres: Darshan13	Comment	Туре	TR	Comment Status R		Pres: Darshan
	of Icon-2P_un 13_0517pdf.	balance in Table 145-16 can l	e improved. S	ee	voltage	e, all it o		does not make sense. In rea emporarily turn off its port (it		
SuggestedRe	medy				0.1uF	cap).				
Adopt dar	shan_13_051	7.pdf if ready. If not ready, ac	d to TO DO lis	t				capacitance CPort min or C		
Proposed Res REJECT.	sponse	Response Status Z			lasting	less th	an 30 µs a	or input voltage transients w as specified in 145.3.8.6."	/hich cause VP	D to drop as low as 0 V
					Suggested		,			
This com	ment was WI	THDRAWN by the commenter	•		Use si V".	milar w	ording to t	ne "at" standard, removing "	which cause VF	D to drop as low as 0
C/ 145 S Darshan, Yair	SC 145.2.8	P 156 Mirosemi	L 27	# 48		ording b	becomes t	nis:		
Comment Typ	e TR	Comment Status D 3 To verify after all unbalance	numbers are s	Pres: Darshan7 table that Icon-2P_unb,		a PD to		capacitance CPort min or C or input voltage transients la		
	_unb and ILIN tance of +/-1%	<i>I</i> -2P are sync with Table 145- 6 accuracy.	17 (Rload_min	and Rload_max table)	Response	.		Response Status W		
SuggestedRe	medy				REJEC	. ו				
Adopt dar	shan_07_051	7.pdf if ready. If not ready, ac	dto TO DO list		Out of	scope.				
Proposed Res REJECT.	sponse	Response Status Z								
This comr	ment was WI⁻	THDRAWN by the commenter								
C/ 145	SC 145.2.8.1	P 158	L 51	# 264						
Vendt, Matthi	as	Philips Lighting								
Comment Typ	e E	Comment Status A		Editorial						
		load step of (IHold max _ VPc e maximum power per the PS		Class É."						
Linebreak	in VPort_PS	E-2P min.								
SuggestedRe Add non-t	<i>medy</i> preaking hyph	ien.								
Response ACCEPT.		Response Status C								

Pa **159** Li **24**

C/ 145 SC 145.2.8.4 Jones, Chad	P 159 Cisco	L 28	# 105	<i>Cl</i> 145 Darshan, Y	SC 145.2 air	.8.5	P 161 Mirosemi	L 44	# 49
guarantees made within making guarantees if the altering an outcome. For minimize," etc., should b "reduce" or "improve." Fo safety" or "to prevent" m The next several comme terms. I will preface thes	Comment Status A 4/20/17: Please review the te the document, especially the er is a possibility of unforese example, words such as "er e modified, if they are inacci or example, "to ensure safet ight be changed to "to reduc ents will be the result of my s e comments with #ABSOLU	bese that are saf een situations of sure," "guaran urate. Substitut " might be cha e.". earch of the do TE.	fety-related. Avoid or circumstances itee," "maximize," ions might include anged to "to improve	Suggested Addopi Proposed I REJEC	fy that Ipeak Remedy darshan_07 Response	-2P_unb m 7_0517.pdf <i>Resp</i>	nment Status D ax value is in sync wi if ready. If not ready, ponse Status Z WN by the commente	add to TO DO lis	,
backup power supplies t	ed to rare circumstances suc o ensure system robustness		olving switchover of	Cl 145 Thompson	SC 145.2 Geoff	.8.5	P 161 GraCaSI S.A	L 48	# 190
backup power supplies to improv Response ACCEPT IN PRINCIPLE	Response Status C	uch as those i	nvolving switchover of	defined Suggested Propos	t text in P80 1145.1.3 Remedy	2.3bt/D2.4: 802.3bt/D2	nment Status A Rchan-2P is the char .5: Rchan-2p is the lin		Channe sistance per pairset as op resistance per
Remove "to ensure syste	em robustness"			Response		Resp	onse Status W		
C/ 145 SC 145.2.8.5 Thompson, Geoff	P 161 GraCaSI S.A.	L 22	# 210	ACCER REF 20	PT IN PRINC	IPLE.			
Comment Type ER Current text in P802.3bt/	Comment Status A /D2.4: Rchan is the channel I	oop resistance	<i>Channel</i> as defined 145.1.3						
SuggestedRemedy Proposed text for P802.3 145.1.3	3bt/D2.5: Rchan is the link se	ction loop resi	stance as defined						
Response ACCEPT IN PRINCIPLE	Response Status W								
REF 204									

Pa **161** Li **48**

Unbalance

C/ 145	SC 145.2.8.5.1	P 162	L 15	# 50	
Darshan, Y	/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

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

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

Option 2:

1. Modify the existing text in p162 L15:

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

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

Response Response Status C

ACCEPT IN PRINCIPLE.

OBE by 106

###

Comment 106 has the following response: ACCEPT.

Suggested remedy:

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

> Pa 162 Li 15

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Unbalance

C/ 145	SC 145.2.8.5.1	P 162	L 15	#	139	
Schindler,	Fred	Seen Simply,	Cisco, T			

Comment Type ER Comment Status A

Comment Status A

Two sentences in this draft use "ensures", which will be altered by IEEE editorial staff to remove the word ensures (p162 L15 and p201 L29). A solution is proposed so that the Task Force can amend or adopted to get the text they prefer. A related comment was made in D2.3 #202 but was not fixed in the adopted darshan_01_0317Rev008.pdf.

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."

The existing text, p201 L29,

"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."

SuggestedRemedy

Replace the called out text p162 with,

"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 meet Rch_unb_min and Rch_unb_max requirements per Table 145-17) and a PD that meets 145.3.8.10 requirements, limit the current on the pairset with the highest current including unbalance, and does not exceed ICon-2P-unb as defined in Table 145-16 during normal operating conditions."

Replace the called out text p201 with,

"The PD PI pair-to-pair effective resistance unbalance determined by RPD_min, and RPD_max in conjunction with 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 a PSE that meets 145.2.8.5.1 requirements, limit the current on the pairset with the highest current including unbalance, and does not exceed ICon-2P-unb as defined in Table 145-16 during normal operating conditions. See Annex 145A."

Response

Response Status C

ACCEPT IN PRINCIPLE.

OBE by 106

Comment 106 has the following response: ACCEPT. Suggested remedy: change to: The PSE PI pair-to-pair effective resistance unbalance determined by RPSE max and RPSE min, along with any other parts of the system, i.e., channel (cables

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

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

C/ 145	SC 145.2.8.5.1	P 162	L 15	#	106
Jones, Chad		Cisco			
Comment Typ	e E	Comment Status A			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.

SuggestedRemedy

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.

Response Response Status C

ACCEPT.

This comment resolves comments: 50, 139

C/ 145	SC 145.2.8.5	5.1 <i>P</i> 162	L 16	# 191
Thompson, G	Geoff	GraCaSI S.A.		
Comment Ty	pe ER	Comment Status A		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,

Response Status C

ACCEPT.

Response

Pa **162** Li **16** Page 42 of 80 5/25/2017 8:55:41 AM

Cl 145 SC 145.2.8.5 Thompson, Geoff	.1 <i>P</i> 162 GraCaSI S.A.	L 19	# 192	C/ 145 SC 14 Darshan, Yair	45.2.8.5.1	P 162 Mirosemi	L 48	# 51
resistances SuggestedRemedy	Comment Status A bt/D2.4: ICon-2P-unb applies fo 2.3bt/D2.5: ICon-2P-unb applies Response Status W .E.			In the text below "A PSE shall no **load** as sho 145-22, using v Equation (145- SuggestedRemedy Change text to connected to th	w: ot source mo wn in Figure ralues of Rloa 17).", It is not "A PSE shall he **PSE load	omment Status R re than ICon-2P-unb min ad_min and Rload_max a clear that the "load" is th not source more than IC t** as shown in Figure 14 equation (145-16) and Ec	as specified in E he PSE load Con-2P-unb min 45-22, using valu	quation (145-16) and on any pair when ues of Rload_min and
C/ 145 SC 145.2.8.5 Thompson, Geoff	GraCaSI S.A.	L 27	# <u>193</u>	Response REJECT. Out of scope.	Re	sponse Status C		
unbalance and PD PI p	Comment Status A pt/D2.4:under worst case con pair to pair unbalance.	ditions of chanr	<i>Channel</i> nel pair to pair	C/ 145 SC 14 Wendt, Matthias	45.2.8.5.1	P 163 Philips Lightin	L 1 g	# 265
unbalance and PD PI p	•	conditions of lin	k section pair to pair	original text: " T	able 145-17	omment Status A Rload_max and Rload_r t Rload (which is now in		
Response ACCEPT.	Response Status W			0	"Table 145-	17 Unbalance load resist	ances"	
REF 204 C/ 145 SC 145.2.8.5	-	L 31	# 30	Response ACCEPT.		sponse Status W		
Anslow, Pete Comment Type E Four trailing zeros in Ed Four trailing zeros in Ed			Editorial	This comment	resolves com	inent. 93		
SuggestedRemedy Delete them								
Response ACCEPT.	Response Status C							

Pa **163** Li **1**

Johnson, Peter Sifos Technologies	C/ 145 SC 145.2.8.5.1 P 163 L 6 # 52 Darshan, Yair Mirosemi
Comment Type E Comment Status A	Comment Type TR Comment Status A Pres: Dars
Table 145-17 no longer has Rload_* values but is titled "Rload_max and Rload_min requirements".	TODO #129 #152 D2.3 Table 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 kep with accuracy of +/-5mA/TBD.
SuggestedRemedy	
Re-title table to "Rload_max and Rload_min components"	SuggestedRemedy Adopt darshan_08_0517.pdf if ready. If not ready, addto TO DO list.
Response Response Status C	
ACCEPT IN PRINCIPLE.	Response Response Status C ACCEPT IN PRINCIPLE.
OBE by 265	ACCEPT IN PRINCIPLE. Adopt darshan_08_0517.pdf
### ###	
Comment 265 has the following response: ACCEPT. Suggested remedy:	C/ 145 SC 145.2.8.5.1 P 163 L 13 # 195 Thompson, Geoff GraCaSI S.A. GraCaSI S.S. GraCaSI S.S.<
Change title to: "Table 145-17 Unbalance load resistances"	Comment Type ER Comment Status A Cha
C/ 145 SC 145.2.8.5.1 P 163 L 6 # 194	Current text in P802.3bt/D2.4: High channel resistance conditions. All resistances within 1% range.
Thompson, Geoff GraCaSI S.A.	SuggestedRemedy
Comment Type ER Comment Status A Channel Current text in P802.3bt/D2.4: Low channel resistance conditions. All resistances within 1%	Proposed text for P802.3bt/D2.5: High link section resistance conditions. All resistances within 1% range.
range.	Response Response Status W
SuggestedRemedy	ACCEPT IN PRINCIPLE.
Proposed text for P802.3bt/D2.5: Low link section resistance conditions. All resistances	REF 204
within 1% range.	
-	C/ 145 SC 145.2.8.5.1 P 163 L 26 # 196
	C/ 145 SC 145.2.8.5.1 P 163 L 26 # 196 Thompson, Geoff GraCaSI S.A. GraCaSI S.A. Figure 100
Response Response Status W	
Response Response Status W	Thompson, Geoff GraCaSI S.A.
Response Response Status W	Thompson, Geoff GraCaSI S.A. Comment Type ER Comment Status A Cha Current text in P802.3bt/D2.4:common mode channel resistances in the powered pair
Response Response Status W	Thompson, Geoff GraCaSI S.A. Comment Type ER Comment Status A Char Current text in P802.3bt/D2.4:common mode channel resistances in the powered pair of the same polarity from the PSE PI to the PD PI per the model Char
Response Response Status W	Thompson, Geoff GraCaSI S.A. Comment Type ER Comment Status A Cha Current text in P802.3bt/D2.4:common mode channel resistances in the powered pair of the same polarity from the PSE PI to the PD PI per the model Cha 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
Response Response Status W	Thompson, Geoff GraCaSI S.A. Comment Type ER Comment Status A Cha Current text in P802.3bt/D2.4:common mode channel resistances in the powered pair of the same polarity from the PSE PI to the PD PI per the model Cha SuggestedRemedy Proposed text for P802.3bt/D2.5:common mode link section resistances in the powere pairs of the same polarity per the model (The current text is actually OK because the span of the channel is specified. I would prefer to use link section here for consistency.)
Response Response Status W	Thompson, Geoff GraCaSI S.A. Comment Type ER Comment Status A Cha Current text in P802.3bt/D2.4: common mode channel resistances in the powered pair of the same polarity from the PSE PI to the PD PI per the model SuggestedRemedy Proposed text for P802.3bt/D2.5: common mode link section resistances in the powered pairs of the same polarity per the model (The current text is actually OK because the span of the channel is specified. I would prefer to use link section here for consistency.) Response Response Status W
Response Response Status W	Thompson, Geoff GraCaSI S.A. Comment Type ER Comment Status A Cha Current text in P802.3bt/D2.4:common mode channel resistances in the powered pair of the same polarity from the PSE PI to the PD PI per the model SuggestedRemedy Proposed text for P802.3bt/D2.5:common mode link section resistances in the powere pairs of the same polarity per the model (The current text is actually OK because the span of the channel is specified. I would prefer to use link section here for consistency.) Response Response Status W ACCEPT IN PRINCIPLE. V

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 The variable names for Rchunb_min, Rchunb_max, Rpair_PD_min and Rpair_PD_max 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 W Response Response Status W ACCEPT IN PRINCIPLE. P163 L 34 # 94 Johnson, Peter Sitos Technologies Editorial In keeping with fact that Table 145-17 does not have Rload_* values, insert phrase to explain this on line 34. SuggestedRemedy Modify sentence to "Table 145-17 specifies the values of resistance used in computing Rload_min and Rload_max according to* C ACCEPT. C/ 145 SC 145.2.8.5.1 P163 L 38 # 266 SuggestedRemedy Modify sentence to "Table 145-17 specifies the values of resistance used in computing Rload_min and Rload_max according to* Pres: Darsha C/ 145 SC 145.2.8.5.1 P163 L 38 # 266	Cl 145 SC 145.2.8.5.1 P 163 L 31 # 197 Thompson, Geoff GraCaSI S.A. GraCaSI S.A.	C/ 145 SC 145.2.8.5.1 P 163 L 38 # 53 Darshan, Yair Mirosemi Mirosemi 53
pair channel resistance unbalance requirement for SuggastadRemedy Proposed text for P802.3b/D2.5described in Figure 145-22 and as defined by the link section pair-to-pair resistance unbalance requirement for Response Response Status W ACCEPT IN PRINCIPLE. REF 204 Cf 145 SC 145.28.5.1 P163 L34 # 94 Johnson, Peter Sitos Technologies Comment Type E Comment Status A Editorial In keeping with fact hat Table 145-17 does not have Rload_* values, insert phrase to explain this on line 34. Suggested/Remedy Modify sentence to Table 145-17 specifies the values of resistance used in computing Response Response Status C ACCEPT. C1 145 SC 145.28.5.1 P163 L38 # 286 Suggested/Remedy Modify sentence to Table 145-17 specifies the values of resistance used in computing Response Response Status C ACCEPT. C1 145 SC 145.28.5.1 P163 L38 # 286 Comment Type TR Comment Status A Unbalance original text: "Rioad_min = RPD_min + RChunb_min" in equation 145-16 rad 145-17 Rear_PD_min+Achunb_min" in equation 145-16 rad 145-17 Rear_PD_min+Achunb_min" in equation 145-16 rad 145-17 Rear_PD_min + RChunb_min" in equation 145-16 rad 145-17 Rear_PD_min+Achunb_min" in equation 145-16 rad 145-17 Rear_PD_min + RChunb_min" in equation 145-16 rad 145-17 Rear_PD_min + RChunb_min" in equation 145-16 rad 145-17 Rear_PD_min + RChunb_min in exponse Response Status C ACCEPT IN FINCIPLE.	Comment Type ER Comment Status A Channel	Comment Type ER Comment Status A Editorial
Suggested/Renedy Suggested/Renedy 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 Notary Section 145-16 from: Rload_min=Pair_PD_min+Rchunb_min: To: Rload_min=Pair_ND_max+Rchunb_max: To: Rload_min=Pair_ND_max+Rchunb_max: To: Rload_min=Pair_ND_max+Rchunb_max: To: Rload_min=Pair_ND_max+Rchunb_max: To: Rload_min=Pair_ND_max+Rchunb_max: To: Rload_max=Rgh_max: PD_max+Rchunb_max: To: Rload_max=Rgh_max: PD_max: PD_max+Rchunb_max: To: Rload_max=Rgh_max: PD_max: Suggested/Remedy Corner trype E Corner trype Editorial Corner trype TR Corneret trype TR Response Status U	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	
Topological and pair to	SuggestedRemedy	
ACCEPT IN PRINCIPLE. REF 204 C1 145 SC 1452.8.5.1 P 163 L 34 # 194 Johnson, Peter Sitos Technologies Editorial Comment Type E Comment Status A SuggestedRemedy Modify sentence to Table 145-17 specifies the values of resistance used in computing Riod_min and Riod_min = RPair_PD_min + RChunb_min* in equation 145-17 Rear PD_min/max. SuggestedRemedy Wendt, Matthias P 163 L 38 266 Original text: "Riod_min = RPair_PD_min + RChunb_min* in equation. Add it. Unbalance Response Status U Response Status U SuggestedRemedy Comment Status A Unbalance SuggestedRemedy Procestate devices.) SuggestedRemedy Change to: Riod_min = RPair_PD_min/max is used but Table 145-17 lists Response Status C Response Status C ACCEPT IN PRINCIPLE. Comment Status A Unbalance Pros: Data A to the se elements is the relevance to the specification at hand? Wendt, Matthias P 163 L 38 2665 Proposed text for P802.3b/D2.5: If we are to include these derivations they should be in a include these derivations they		1.Change Equation 145-16 from: Rload_min=Pair_PD_min+Rchunb_min:
CI 145 SC 145.2.8.5.1 P 163 L 34 # [34] CI 145 SC 145.2.8.5.1 P 163 L 34 # [34] Lohnson, Peter Sitos Technologies Editorial Comment Type E Comment Status A Editorial In keeping with fact that Table 145-17 does not have Rload_* values, insert phrase to explain this on line 34. Editorial GraCaSI S.A. SuggestedRemedy Modify sentence to "Table 145-17 specifies the values of resistance used in computing Rload_min and Rload_max according to" Response Response Comment Type E Comment Status R Pres: Darsha Response Response Response Status C ACCEPT. (1 dot understand what "total channel common mode pair resistance" of the 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 3 elements, PSE, Link Section and PD. Derivations of how we came to the values of each of the 3 elements, PSE, Link Section and PD. Derivations of each of the 3 elements, PSE, Link Section and PD. Derivations of how we came to the values of each of the 3 elements, PSE, Link Section and PD. Derivations of how we came to the values of each of the 3 elements, PSE, Link Section and PD. Derivations of how we came to the values of each of the 3 elements, PSE, Link Section and PD. Derivations of how we came to the values of each of the 3 elements, PSE, Link Section and PD. min	·	2. Change Equation 145-17 from: Rload_max=Rair_PD_max+Rchunb_max:
CI 145 SC 145.2.8.5.1 P163 L34 # 94 Johnson, Peter Sitos Technologies Feditorial Comment Type E Comment Status A Editorial In keeping with fact that Table 145-17 does not have Rload_* values, insert phrase to explain this on line 34. Suggested/Remedy Comment Type ER Comment Status R Pres: Darsha Suggested/Remedy Modify sentence to 'Table 145-17 specifies the values of resistance used in computing Rload_max according to.* Response Response Status C ACCEPT. Comment Status A Unbalance CI 145 SC 145.2.8.5.1 P163 L 45 # 198 Comment Type Response Response Status C ACCEPT. Comment Status A Unbalance Contract Type TR Comment Status A Unbalance Original text: 'Rload_min = RPair_PD_min + RChunb_min* In negation 145-17 lists RPD_min/max. Suggested/Remedy Response Response Status C Response Status C ACCEPT IN PRINCIPLE. Comment Type Response Status C Mathias Projeinal text: 'Rload_min = RPD_min + RChunb_min, and same fix for Eq. 145-17 lists Reponse Response Status C Response Status C Response Sta	REF 204	
Comment Type E Comment Type E Comment Type E Comment Type ER Comment Status R Pres: Darsha SuggestedRemedy Modify sentence to "Table 145-17 specifies the values of resistance used in computing Rload_min and Rload_max according to" Thompson, Geoff GraCaSI S.A. Kesponse Response Status C Current text in P802.3bt/D2.4: ICon-2P-unb and Equation (145-15) are specified to total channel common mode pair resistance RChan-2P from 0.2 to to 12.5 0 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 common mode pair resistance' other than 2P when en control to the two separate devices.) C/I 145 SC 145.2.8.5.1 P 163 L 38 "266 Wendt, Matthias Philips Lighting Unbalance Comment Type TR Comment Type ITR Response Response Status U SuggestedRemedy Change to: Rload_min = RPair_PD_min/max is used but Table 145-17 lists RPD_min/max SuggestedRemedy No remedy supplied SuggestedRemedy Change to: Rload_min = RPD_min + RChunb_min, and same fix for Eq. 145-1	C/ 145 SC 145.2.8.5.1 P 163 L 34 # 94	
Comment Type Comment Status A Pres: Darsha In keeping with fact that Table 145-17 does not have Rload_* values, insert phrase to explain this on line 34. SuggestedRemedy Modify sentence to "Table 145-17 specifies the values of resistance used in computing Rload_min and Rload_max according to" Comment Type ER Comment Status R Pres: Darsha C/ 145 SC 145.2.8.5.1 P 163 L 38 # 266 Wendt, Matthias Philips Lighting What is the relevance to the specifications of each of the two separate devices.) Comment Type TR Comment Status A Unbalance original text: "Rload_min = RPD_min + RChunb_min" In deepine to: Response Response Status C Chance to: Road_min = RPD_min + RChunb_min, and same fix for Eq. 145-17 Table 145-17 RPair_PD_min/max is used but Table 145-17 lists RPD_min/max. SuggestedRemedy Proposed text for P802.3bt/D2.5: If we are to include these derivations they should be in informative annex. Response Response Status C Response Status C ACCEPT IN PRINCIPLE. Comment Type TR Comment for the status for Eq. 145-17	Johnson, Peter Sifos Technologies	Cl 145 SC 145.2.8.5.1 P 163 L 45 # 198
explain this on line 34. SuggestedRemedy Modify sentence to "Table 145-17 specifies the values of resistance used in computing Rload_min and Rload_max according to" Response Response Status C ACCEPT. C/ 145 SC 145.28.5.1 P163 L 38 # 266 C/ memet Type TR Comment Status A Unbalance original text: "Rload_min = RPair_PD_min + RChunb_min" in equation 145-16 and 145-17 RPair_PD_min/max is used but Table 145-17 lists RPD_min/max. SuggestedRemedy Change to: Rload_min = RPD_min + RChunb_min, and same fix for Eq. 145-17 Also, there is a missing where subclause below the equation. Add it. Response Response Status C ACCEPT IN PRINCIPLE.	Comment Type E Comment Status A Editorial	Thompson, Geoff GraCaSI S.A.
SuggestedRemedy Modify sentence to "Table 145-17 specifies the values of resistance used in computing Rload_min and Rload_max according to" Response Response Status C ACCEPT. ACCEPT. Cl 145 SC 145.2.8.5.1 P 163 L 38 # 266 Nendt, Matthias Philips Lighting Introduction 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 wo separate devices.) SuggestedRemedy Comment Type TR Comment Status A Unbalance original text: "Rload_min = RPair_PD_min + RChunb_min" in equation 145-17 Reair_PD_min/max is used but Table 145-17 lists RPD_min/max. Response C Response Status U SuggestedRemedy Change to: Rload_min = RPD_min + RChunb_min, and same fix for Eq. 145-17 Also, there is a missing where subclause below the equation. Add it. Response C Response Status C ACCEPT IN PRINCIPLE. Correct IN PRINCIPLE. Correct C No remedy supplied		
Modify Serifice to Table 145-17 specifies the values of resistance used in computing Rioad_min and Rioad_max according to" 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" and what is the relevance to the specification at hand? We have no control of according to" Response Response Status C ACCEPT. C/ 145 SC 145.2.8.5.1 P 163 L 38 # [266] Comment Type TR Comment Status A Unbalance original text: "Rioad_min = RPai_PD_min + RChunb_min" in equation 145-16 and 145-17 RPai_PD_min/max is used but Table 145-17 lists Response Response Status U SuggestedRemedy Change to: Rioad_min = RPD_min + RChunb_min, and same fix for Eq. 145-17 Response Cances Response Status U Response Response Status C Response Cances No remedy supplied Response Response Status C Response Cances No remedy supplied	SuggestedRemedy	channel common mode pair resistance RChan-2P from 0.2 O to 12.5 O and worst case
Response Response Status C ACCEPT. ACCEPT. Cl 145 SC 145.2.8.5.1 P 163 L 38 # 266 Wendt, Matthias Philips Lighting It as the 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 specification of each of the spe		pair resistance" is in this context. What are the measurement end points for this "total
ACCEPT I. P163 L 38 # 266 Vendt, Matthias Philips Lighting Values of each have no place in the specifications of each of the two separate devices.) Comment Type TR Comment Status A Unbalance original text: "Rload_min = RPair_PD_min + RChunb_min" Industry Unbalance Proposed text for P802.3bt/D2.5: If we are to include these derivations they should be in informative annex. SuggestedRemedy Change to: Rload_min = RPD_min + RChunb_min, and same fix for Eq. 145-17 Response Response Status U Response Response Status C ACCEPT IN PRINCIPLE. C	Response Response Status C	"total channel common mode pair resistance" other than by the independent specification
Wendt, Matthias Philips Lighting Comment Type TR Comment Status A Unbalance original text: "Rload_min = RPair_PD_min + RChunb_min" Unbalance Response Response Status U SuggestedRemedy Change to: Rload_min = RPD_min + RChunb_min, and same fix for Eq. 145-17 Add it. No remedy supplied Response Response Status C ACCEPT IN PRINCIPLE. C	ACCEPT.	
Comment Type TR Comment Status A Unbalance informative annex. original text: "Rload_min = RPair_PD_min + RChunb_min" Response Response Status U in equation 145-16 and 145-17 RPair_PD_min/max is used but Table 145-17 lists REJECT. No remedy supplied SuggestedRemedy No remedy supplied No remedy supplied Change to: Rload_min = RPD_min + RChunb_min, and same fix for Eq. 145-17 Also, there is a missing where subclause below the equation. Add it. Response Response Status C ACCEPT IN PRINCIPLE. C	C/ 145 SC 145.2.8.5.1 P 163 L 38 # 266	SuggestedRemedy
Comment Type TR Comment Status A Unbalance original text: "Rload_min = RPair_PD_min + RChunb_min" Response Response Status U in equation 145-16 and 145-17 RPair_PD_min/max is used but Table 145-17 lists REJECT. No remedy supplied No remedy supplied SuggestedRemedy Change to: Rload_min = RPD_min + RChunb_min, and same fix for Eq. 145-17 Also, there is a missing where subclause below the equation. Add it. No remedy supplied Response Response Status C ACCEPT IN PRINCIPLE. C	Nendt, Matthias Philips Lighting	Proposed text for P802.3bt/D2.5: If we are to include these derivations they should be in an
original text. Road_initi = RPair_PD_initi + Ronding_initi Response REJECT. in equation 145-16 and 145-17 RPair_PD_min/max is used but Table 145-17 lists REJECT. RPD_min/max. No remedy supplied SuggestedRemedy No remedy supplied Change to: Rload_min = RPD_min + RChunb_min, and same fix for Eq. 145-17 Also, there is a missing where subclause below the equation. Add it. Response Response Status C ACCEPT IN PRINCIPLE. C	Comment Type TR Comment Status A Unbalance	
RPD_min/max. No remedy supplied SuggestedRemedy Change to: Rload_min = RPD_min + RChunb_min, and same fix for Eq. 145-17 Also, there is a missing where subclause below the equation. Add it. Response Response Status CCEPT IN PRINCIPLE.		
SuggestedRemedy Change to: Rload_min = RPD_min + RChunb_min, and same fix for Eq. 145-17 Also, there is a missing where subclause below the equation. Add it. Response Response Status C ACCEPT IN PRINCIPLE.		REJECT.
Also, there is a missing where subclause below the equation. Add it. Response Response Status C ACCEPT IN PRINCIPLE.	SuggestedRemedy	No remedy supplied
ACCEPT IN PRINCIPLE.		
	Response Response Status C	
Rpd is fixed by comment 53.	ACCEPT IN PRINCIPLE.	
Add "where." statement below equations as appropriate.	Rpd is fixed by comment 53.	

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

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Cl 145 SC 145.2.8.5.1 P 163 L 46 # 95	C/ 145 SC 145.2.8.5.1 P 164 L 4 # 54
Johnson, Peter Sifos Technologies	Darshan, Yair Mirosemi
Comment Type T Comment Status R Pres: Darshan12	Comment Type T Comment Status A Pres: Darsh
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.	Update Figure 145-22 per darshan_09_0517.pdf
Suggested Remedy	SuggestedRemedy
Replace with: "The values for Icon_2p_unb and the relationship between RPSE-max and	Adopt darshan_09_0517.pdf
RPSE_min (Equation 145-15) are valid given that Rchan-2P ranges from 0.2 ohms to 12.5	Response Response Status C
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	ACCEPT IN PRINCIPLE.
evaluated using Rload_min and Rload_max both reduced by 0.5 X Rchan-2P. This	OBE by 55
compliance will require a reduction in the ratio of RPSE_max to RPSE_min presented by Equation 145-15.	
	### ###
Response Response Status C REJECT.	Comment 55 has the following response: ACCEPT IN PRINCIPLE.
text is out of scope. No changes were made last draft.	adopt darshan_09_0517.pdf with the following changes:
C/ 145 SC 145.2.8.5.1 P 164 L 3 # 199	1. Do not implement title change for Figure 145-22.
Thompson, Geoff GraCaSI S.A.	 Remove "channel" from Figure 145-22. Editorial license to clean up text.
Comment Type ER Comment Status A Channel	C/ 145 SC 145.2.8.5.1 P 164 L 10 # 200
Current text in P802.3bt/D2.4: Channel	Thompson, Geoff GraCaSI S.A.
SuggestedRemedy	Comment Type ER Comment Status R Pres: Darsha
Proposed text for P802.3bt/D2.5: Link Section	Current text in P802.3bt/D2.4: The box on the far right in the figure is undefined. Is it a
Response Response Status W	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?
ACCEPT IN PRINCIPLE.	SuggestedRemedy
REF 204	Proposed text for P802.3bt/D2.5: ????
	Response Response Status U
	REJECT.
	This is out of scope and no remedy is provided.
	Yair's response to the comment explaining what the box is is shown in darshan_12_0517

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

C/ 145 SC 145.2.8.5 Thompson, Geoff	.1 <i>P</i> 164 GraCaSI S.A.	L 17	# 201	<i>Cl</i> 145 Wendt, Ma	SC 145.2.8.5.1 thias	P 164 Philips Lighti	L 24 ing	# 267
this evaluation are not	Comment Status R bt/D2.4: "End-to-end pair-to-pa defined, not defined as being ren come from the same vend	accessible and	under normal	resista evaluat	text: "a) Use Rload	Comment Status A d_min and Rload_max fro n a) to Table 145-17 when		
SuggestedRemedy Proposed text for P802	9 3ht/D2 5: 2222			Suggested	•	_min and Rload_max from	a equations $1/5$	16 and 115-17 for low
Response	Response Status U				resistance conditi			
REJECT.				Response ACCE	F T IN PRINCIPLE.	Response Status C		
Out of scope and no re	medy proposed.				-			
C/ 145 SC 145.2.8.5	-	L 20	# 55		peat steps b) throu	ugh e) for Rload_min and esistance conditions."	I Rload_max fror	n equations 145-16 and
Darshan, Yair <i>Comment Type</i> T	Mirosemi Comment Status A		Pres: Darshan9	C/ 145	SC 145.2.8.6	P 164	L 35	# 268
Comment Type T TODO#370 D2.3. Comment: Figure 145- replace the abbreviatio unbalance". Also remo replace by remedy text Respose: check correct SuggestedRemedy Adopt darshan_09_05 Response ACCEPT IN PRINCIPL adopt darshan_09_051	Comment Status A 22 is titled "PSE PI unbalance n with "PSE PI unbalance spo we the two occurences of this tu usage of these terms and p 17.pdf <i>Response Status</i> C .E. 7.pdf with the following chang the change for Figure 145-22. from Figure 145-22.	ecification and s abbreviation ir rovide new defir	and E2EP2PRunb" to system resistance a Annex 145A and	Yseboodt, I Comment 7 "POWE that pa single- max, si second Liberal Didn't v The ve point to Suggested. "Power and the signatu with the	ennart ype ER R_UP occurs on er rset and the expira- ignature PD shall pairset transitions y mixes 'POWER_ re decide to use the y first use of POW the actual state. Remedy up occurs on each expiration of T Inre re PD shall reach F first pairset transit ms to POWER_UF	P 164 Philips Comment Status A each pairset between the tition of T Inrush-2P . PSE reach the POWER_ON s pairset transitioning into to POWER_UP anytime UP' and 'the POWER_UP e state name, but not 'sta 'ER_UP (also in the subc n pairset between the tran ush-2P . PSEs that have POWER_ON on both pair tioning into POWER_UP P anytime within this time "Output current during po	transition to the Es that have assi- tate on both pair the POWER_UF within this time (P state'. ate'. dause title) is the assigned Class rsets within T Inr P, and where the period."	Editor POWER_UP state on igned Class 5 to 8 to a rsets within T Inrush-2P P state, and where the period." e odd duck as it doesn't R_UP on that pairset 5 to 8 to a single- rush-2P max, starting

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C/ 145 SC 145.2.8.6.1 P 165 L 33 # 96	C/ 145 SC 145.2.8.6.1 P 165 L 46 # 168
ohnson, Peter Sifos Technologies	Thompson, Geoff GraCaSI S.A.
Comment Type T Comment Status D PSE Inru There is an inconsistency in the three minimum inrush current requirements a), b), and c) and Table 145-16. Conditions a) and b) specify "minimum linrush-2P" requirements with 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?	Current text in P802.3bt/D2.4: channel resistance
Item c) says refer to Table 145-16 for minimum linrush-2P, but again, those boxes are blank for Single Signature.	Response Response Status W ACCEPT IN PRINCIPLE.
SuggestedRemedy	ACCEFT IN FRINCIFLE.
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."	REF 204 C/ 145 SC 145.2.8.6.1 P 166 L 2 # 169
Proposed Response Response Status Z	Thompson, Geoff GraCaSI S.A.
REJECT.	Comment Type ER Comment Status A Channe Current text in P802.3bt/D2.4: channel resistance
This comment was WITHDRAWN by the commenter.	— SuggestedRemedy
C/ 145 SC 145.2.8.6.1 P 165 L 44 # 97	Proposed text for P802.3bt/D2.5: link section resistance
ohnson, Peter Sifos Technologies	Response Response Status W
Comment Type T Comment Status A PSE Inru	ACCEPT IN PRINCIPLE.
The first paragraph of 145.2.8.6.1 describes a Type-4 PSE that is allowed to provide minimum linrush below what is specified in Table 145-16. It then stipulates "Such a PSE that implements a minimum linrush lower than defined in Table 145-16 shall successfully	REF 204
power up a single-signature PD comprised of a parallel combination of 360 µF and a Clas	s C/ 145 SC P 166 L 24 # <u>310</u>
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	Lukacs, Miklos Silicon Labs
Tinrush-2P min requirement presumably only works for PD's that draw inrush starting with	Comment Type ER Comment Status A PSE Powe
the power-up.	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 I do no know how to resolve this since specifying that a PSE has the full Tinrush-2P min	SuggestedRemedy
period to power a PD is contrary to the overall inrush specification. PD's must be designed	
to charge with linrush min in a time period Tinrush-2P min less any delay time in the PD's start of inrush. This minimum inrush exception would present an interop risk it seems.	Response Response Status W
Response Response Status C	ACCEPT IN PRINCIPLE.
ACCEPT IN PRINCIPLE.	Editor to adjust figures 24 and 25 accordingly.
Remove 145.2.8.6.1 and references to it from Table 145-16.	

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

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C/ 145 SC 145.2.8.8					-	
		# 98	C/ 145 SC 145.3.1	P 171	L 32	# 269
Johnson, Peter	Sifos Technologies		Yseboodt, Lennart	Philips		
Comment Type T	Comment Status R	PSE Power	Comment Type E	Comment Status A		PD Types
	e record" comment. The final two paragraph		Table 145-18 uses the	header "Single- or dual- signat	ure"	
	ry. The first of these states that Tlim-2P go otes that port voltage may drop below Vport		SuggestedRemedy			
	e PSE may ignore Tlim-2P timing if the volta		Replace by "PD signatu	ire" which matches subclause	title 145.3.5	
Vport_PSE-2P.			Response	Response Status C		
SuggestedRemedy			ACCEPT IN PRINCIPL	•		
	o remove the final sentence and I also wond					
	pe-3 and 4 are a different clause in the stand of the 802.3bt project.)	lard. (The sentence was	Change to: "Signature	Configuration"		
Response	Response Status C		Change title of 145.3.5	to "PD Signature Configuratior	าร"	
REJECT.						
145 SC 145.3.1	P 171 L 25	<u> </u>				
	Analog Devices	# 154				
Stewart, Heath	Analog Devices					
tewart, Heath	Analog Devices Comment Status A tion is odd. We have already created the ide	PD Types				
Stewart, Heath Comment Type ER The notion of construct PSE section and can re	Analog Devices Comment Status A tion is odd. We have already created the ide	PD Types				
Stewart, Heath Comment Type ER The notion of construct PSE section and can re SuggestedRemedy Change PDs can be constructe	Analog Devices Comment Status A tion is odd. We have already created the ide	PD Types				
tewart, Heath comment Type ER The notion of construct PSE section and can re uggestedRemedy Change PDs can be constructe To	Analog Devices Comment Status A tion is odd. We have already created the ide euse it here.	PD Types a of configuration in the				
Stewart, Heath Comment Type ER The notion of construct PSE section and can re SuggestedRemedy Change PDs can be constructe To PDs can be of either si	Analog Devices <i>Comment Status</i> A tion is odd. We have already created the ide euse it here. ed as single-signature or dual-signature	PD Types a of configuration in the				
Stewart, Heath Comment Type ER The notion of construct PSE section and can re SuggestedRemedy Change PDs can be constructe To PDs can be of either si	Analog Devices <i>Comment Status</i> A tion is odd. We have already created the ide euse it here. and as single-signature or dual-signature ingle-signature construction or dual-signature <i>Response Status</i> C	PD Types a of configuration in the				
Stewart, Heath Comment Type ER The notion of construct PSE section and can re SuggestedRemedy Change PDs can be constructe To PDs can be of either si Response ACCEPT IN PRINCIPL Change	Analog Devices <i>Comment Status</i> A tion is odd. We have already created the ide euse it here. ed as single-signature or dual-signature ingle-signature construction or dual-signature <i>Response Status</i> C .E.	PD Types a of configuration in the				
Stewart, Heath Comment Type ER The notion of construct PSE section and can re SuggestedRemedy Change PDs can be constructer To PDs can be of either si Response ACCEPT IN PRINCIPL Change PDs can be constructer	Analog Devices <i>Comment Status</i> A tion is odd. We have already created the ide euse it here. and as single-signature or dual-signature ingle-signature construction or dual-signature <i>Response Status</i> C	PD Types a of configuration in the				
Stewart, Heath Comment Type ER The notion of construct PSE section and can re SuggestedRemedy Change PDs can be constructe To PDs can be of either si Response ACCEPT IN PRINCIPL Change PDs can be constructe To	Analog Devices <i>Comment Status</i> A tion is odd. We have already created the ide euse it here. ed as single-signature or dual-signature ingle-signature construction or dual-signature <i>Response Status</i> C .E.	PD Types a of configuration in the e construction				

Pa **171** Li **32**

P 172 Philips	L 2	# 270	C/ 145 SC Walker, Dylan	145.3.2	P 172 Cisco	L 16	# 232
t request Class 3 or less i			<i>Comment Type</i> "The PD sha Mode."	TR Il be imple	Comment Status A mented to be insensitive to th	e polarity of the	PD Types e power supply on either
on (see 145.3.6.1) and Da	ata Link Layer c	lassification (see 145.5).	"either" could	l be consti	rued as "one or the other", and		
145.5). Type 3 dual-signat	ture PDs reques	st Class 1, 2, 3, or 4 on	Change:	-	mented to be insensitive to th	e polarity of the	e power supply on either
er they support DLL or not int to the Table in the sam int Physical layer. But that	t. ne section, with	the exception that that				ver supply on e	each mode regardless of
stating here.			Response		Response Status C		
			ACCEPT.				
			This commer	nt resolves	s comment: 56		
Response Status C							
ng support of MEPLC.							
of MEPLC.							
	Comment Status A at request Class 3 or less in any implement Data Link I request Class 4 or greated ion (see 145.3.6.1) and Date t Class 4, 5, or 6, while Ty ment Multiple-Event Phys 145.5). Type 3 dual-signated 4 dual-signature PDs request t used to be to describe we er they support DLL or no ant to the Table in the same	Comment Status A At request Class 3 or less implement Multinay implement Data Link Layer classificar request Class 4 or greater implement bo ion (see 145.3.6.1) and Data Link Layer of t Class 4, 5, or 6, while Type 4 PDs request t class 4, 5, or 6, while Type 4 PDs request t class 4, 5, or 6, while Type 4 PDs request t class 4, 5, or 6, while Type 4 PDs request t class 4, 5, or 6, while Type 4 PDs request t class 4, 5, or 6, while Type 4 PDs request t class 4, 5, or 6, while Type 4 PDs request t used to be to describe whether PDs sup- er they support DLL or not. ant to the Table in the same section, with nt Physical layer. But that is true for all Ty- d stating here. Response Status C ing support of MEPLC.	Philips Comment Status A	Philips Walker, Dylan Comment Status A Pres: Stewart1 at request Class 3 or less implement Multiple-Event Physical nay implement Data Link Layer classification (see 145.5). The PD sha request Class 4 or greater implement both Multiple-Event ion (see 145.3.6.1) and Data Link Layer classification and Data Link 145.5). Type 3 dual-signature PDs request Class 7 or 8. This shall shi "either" could any polarity of 4 dual-signature PDs request Class 1, 2, 3, or 4 on 4 dual-signature PDs request Class 5 on at least one pairset." SuggestedRement Mode." tt used to be to describe whether PDs supported Single or er they support DLL or not. To: "The PD sha Mode." ant to the Table in the same section, with the exception that that nt Physical layer. But that is true for all Types described here, d stating here. To: "The PD sha Mode." Response Status C ing support of MEPLC. This comment	PhilipsWalker, DylanComment Status APres: Stewart1at request Class 3 or less implement Multiple-Event Physical may implement Data Link Layer classification (see 145.5).The PD shall be implement Mode."request Class 4 or greater implement both Multiple-Event ton (see 145.3.6.1) and Data Link Layer classification (see 145.5).This shall shall not com "either" could be consti- any polarity on the othertrequest Class 4, 5, or 6, while Type 4 PDs request Class 7 or 8.This shall shall not com "either" could be consti- any polarity on the other14 dual-signature PDs request Class 5 on at least one pairset."The PD shall be implem Mode."tt used to be to describe whether PDs supported Single or er of they support DLL or not.To: "The PD shall be insent the polarity of the power Mode."ant to the Table in the same section, with the exception that that th theysical layer. But that is true for all Types described here, d stating here.To: "The PD shall be insent the polarity of the power Mode."Response StatusCang support of MEPLC.This comment resolves	Philips Walker, Dylan Cisco Comment Status A Pres: Stewart1 Cisco At request Class 3 or less implement Multiple-Event Physical nay implement Data Link Layer classification (see 145.5). The PD shall be implemented to be insensitive to the Mode." request Class 4 or greater implement both Multiple-Event foin (see 145.5). The PD shall be implemented to be insensitive to the Mode." rement Multiple-Event Physical Layer classification and Data Link 145.5). Type 3 dual-signature PDs request Class 7 or 8. This PD shall be implemented to be insensitive to the Mode." used to be to describe whether PDs supported Single or er they support DLL or not. SuggestedRemedy nat to the Table in the same section, with the exception that that the PD shall be insensitive to the polarity of the power supply on the other mode." Response Status C Response Status C and support of MEPLC. This comment resolves comment: 56	Philips Walker, Dylan Cisco Comment Status A Pres: Stewart1 ut request Class 3 or less implement Multiple-Event Physical nay implement Data Link Layer classification (see 145.5). Comment Type TR Comment Status A urequest Class 4 or greater implement both Multiple-Event fois (see 145.5). Class 4, 5, or 6, while Type 4 PDs request Class 7 or 8. The PD shall be implemented to be insensitive to the polarity of the Mode." ment Multiple-Event Physical Layer classification and Data Link 145.5). Type 3 dual-signature PDs request Class 1, 2, 3, or 4 on 4 dual-signature PDs request Class 5 on at least one paires of er they support DLL or not. This shall shall not contain the word "either" and shall be more specified at the same section, with the exception that that they support DLL or not. ant to the Table in the same section, with the exception that that they polarity of the power supply on the other mode." To: Response Status C Response Status C ming support of MEPLC. This soll approximation pair to the polarity of the power supply on the other mode."

Pa **172** Li **16**

C/ 145 So Darshan, Yair	C 145.3.2	P 172 Mirosemi	L 16	# 56	C/ 145 Stewart, ⊦	SC 145.3. leath	2	P 172 Analog Devid	L 24 ces	# 155
Comment Type		Comment Status A		PD Types	Comment	51		nt Status A		Editoria
Mode." the	intent is the Pl ng on 2-pairs o	ented to be insensitive to the D shall be implemented to or 4-pairs i.e. on mode A a	be insensitive to	the polarity regardless	Suggester Chang	dRemedy ge			es not make sen	se.
SuggestedRem	nedy				The P	'D may operate	e in a reduced p	power mode in t	hat case.	
		e PD shall be implemente	ed to be insensitiv	ve to the polarity of the		power limitati	ons are present	t, the PD may th	nen operate in a	reduced power mode.
		ode." emented to be insensitive *	to the polarity of	the power supply on	Response ACCE	9 EPT IN PRINC		e Status W		
Response		Response Status W			OBE	by 271				
	N PRINCIPLE.				### #	## ###				
OBE by 232	2				Comn	nent 271 has t	he following res	sponse:		
### ### ##		lowing roononoo			ACCE	EPT IN PRINC	PLE.			
ACCEPT. Suggested		lowing response:			- Cha	nge to regular	text.			
Change: "The PD sh	-	ented to be insensitive to t	he polarity of the	power supply on either	C/ 145 Yseboodt,	SC 145.3. Lennart	2	P 172 Philips	L 24	# 271
Mode."					Comment		Commen	t Status A		Editoria
		ive to the polarity of the po supply on the other mode."		ach mode regardless of	"PDs	interoperate w	ith Type 1, Type .3.6. The PD ma	e 2, Type 3, and ay operate in a	d Type 4 PSEs, s reduced power r	subject to power mode in that case."
the polarity	or the power s	supply on the other mode.				eset in Note st sentence need	yle. s a bit more fles	sh.		
					Suggeste	dRemedy				
					- Rep "PDs		nce by:		equested amoun	t of power can choose
					Response)	Response	Status C		
					ACCE	EPT IN PRINC	PLE.			
					- Cha	nge to regular	text.			
					This c	comment resol	ves comment: 1	155		
								155		

Pa **172** Li **24**

C/ 145 SC 145.3.2	P 172	L 28	# 140		C/ 145	SC 145.3.3	P 173	L 3	# 141
Schindler, Fred	Seen Simply,	Cisco, T			Schindler, Fr	ed	Seen Simply	Cisco, T	
Comment Type TR	Comment Status D			PD PI	Comment Ty	pe ER	Comment Status A		PD SE
simultaneously indefini	d any voltage from 0 V to 57 V tely without permanent damag	ge."			Existing "A paran and Moo	neter that end	s with the suffix "_mode(X)" n	nay have differe	ent values for Mode A
voltage for Type 3 and path and the positive p	er PD connections that exist w 4 PSEs normally has the neg olarity is unswitched. Therefor and will have a negative pola	ative polarity o re, PDs will be	n the hot-swap exposed to the	switch positive	be the s	ame for all use	xpress the concern that this is es of the suffix. This is cleare		
been powered on.	and will have a negative pola	nty on one mo			SuggestedR	-			
SuggestedRemedy					Option-1 Strike th	: e called-out se	antanca		
Replace the called-out	text with,				ounce un		shonee.		
	d any voltage from 0 V to 57 V ode-A and Mode-B positive pa nanent damage."				"A paran	the called-out neter that end	: sentence with, s with the suffix "_mode(X)" n te state diagrams."	nay have differe	ent values for Mode A
Proposed Response	Response Status Z				Response		Response Status W		
REJECT.					ACCEP	IN PRINCIP	LE.		
This comment was WI	THDRAWN by the commente	r.			"A paran	neter that end	s sentence with, s with the suffix "_mode(X)" n ependent state diagrams."	nay have differe	ent values for Mode A
					C/ 145 Stover, Davie	SC 145.3.3. 2	2 P 173 Analog Devic	L 26 es	# 166
					<i>Comment Ty</i> "pd_req_	,	Comment Status A ant indicatingthe PD requested	ed Class." Missi	Editoria ing a space.
					S <i>uggestedR</i> _pd_req	2	ant indicating the PD request	ed Class."	
					Response		Response Status W		

Pa **173** Li **26**

C/ 145 SC 145.3.3.4 Yseboodt, Lennart	P 175 Philips	L 39	# 272	C/ 145 SC 145.3.3. Yseboodt, Lennart	7 P 179 Philips	L 35	# 273	3
,	Comment Status A		Editorial	Comment Type T	Comment Status A	l_enable.		Editorial
SuggestedRemedy Fix. Response R ACCEPT.	esponse Status C			But it reads like a stat	ol variable, set by the state m		what it does	
				SuggestedRemedy				
C/ 145 SC 145.3.3.7 Darshan, Yair	P 179 Mirosemi	L 23	# 57	Global S&R:				
Comment Type TR C	Comment Status D		PD Class	pd_dll_enabled => po pse_dll_enabled => p				
in DO_CLASS_EVENT6 st that it is not actual DO_CL/ class signature or we may	ASS_EVENT. I understar not have it so in order to	nd that during thi be flexible we ca	s time we may have in do the following:	Response ACCEPT.	Response Status C			
Cahnge present_class_sig A=FALSE and B=TRUE or in the state just present_cla	A=FALSE and (B=FALS ass_sig_A <==FALSE an	E or TRUE) whic	h results with keeping	Cl 145 SC 145.3.3. Abramson, David	7 P 179 Texas Instru	L 40 ments	# 1	
present_class_sig_B can b	e FALSE or TRUE.			Comment Type TR	Comment Status D			wd
SuggestedRemedy				The NO_POWER sta	te allows unwanted behavior	by the PD.		
Remove "present_class_signation of the second secon	g_B<==TRUE" fron the s	tate.		SuggestedRemedy				
Proposed Response R	esponse Status Z			Adopt changes in abr	amson_01_0517.pdf			
REJECT.				Proposed Response	Response Status Z			
This comment was WITHD	RAWN by the commente	er.		REJECT.				
				This comment was W	ITHDRAWN by the comment	er.		
				C/ 145 SC 145.3.3 Darshan, Yair	7 <i>P</i> 179 Mirosemi	L 44	# 58	
				Comment Type TR Put paranthesis arour	Comment Status A d comparison in powered to	power_update state	е.	PD SD
				SuggestedRemedy Change from "pd_pov To "pd_power_update	ver_update * pd_dll_enabled • * pd_dll_enabled * (VPD = \	* VPD = VOff_PD" (Off_PD)"		
				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 **179** Li **44** Page 53 of 80 5/25/2017 8:55:41 AM

C/ 145 SC 145.3.4 Jones, Chad	P 186 Cisco	L 18	# 102		C/ 145 Yseboodt,	SC 145.3.5	P 187 Philips	L 29	# 274
Comment Type ER	Comment Status A		F	ditorial	Comment		Comment Status D		Connection Check
is non-compliant," nee SuggestedRemedy	g power by presenting a dete eds 'A' at the beginning lesting power by presenting a int,"	-			20, on presen 57 V is This re	a given Mode w t an invalid dete applied to the c	shall present a valid detection of no voltage or current is ction signature on that Mode ther Mode. These requirement h defines what a single-sig F	applied to the oth when any voltagents apply to both	ner Mode, and shall ge between 10.1 V and n Mode A and Mode B."
Response ACCEPT.	Response Status W					connection che	e 'corruptor' pairset. ck however, only voltages Bl	ELOW 10.1V ma	y be used to corrupt
This comment resolveC/ 145SC 145.3.4	P 186	L 19	# 308			west possible co ure is 2.7V + 1V	rruptor voltage that is guara = 3.7V.	nteed to create a	n invalid detection
Zimmerman, George <i>Comment Type</i> E "PD requesting power.	CME Consult Comment Status A " the "A" ("A PD requesting."			ditorial	The wa PD wo	ay this is written, uld need to pass	down to 3.7V, we make the it specifies a PD to show a detection (not connection c rruptor voltage on the other	valid detection si heck) which can'	gnature. This says the
SuggestedRemedy					Suggested	Remedy			
Change to read "A PD Response ACCEPT IN PRINCIPI	Response Status C				20, on presen	a given Mode w t an invalid dete	shall present a valid detection nen no voltage or current is ction signature on that Mode ther Mode. These requirement	applied to the oth when any voltage	ner Mode, and shall ge between 3.7 V and
OBE by 102					Proposed REJEC		Response Status Z		
### ### ### Comment 102 has the	e following response:				This co	omment was WI	THDRAWN by the comment	er.	
ACCEPT. Suggested remedy: change to: "A PD requ 145-20 is non-complia	lesting power by presenting a	detection signat	ure outside of Tat	ble	C/ 145 Jones, Cha	SC 145.3.6 ad	P 187 Cisco	L 45	# 104
· · · · ·	·				Comment	Туре Е	Comment Status A		Editorial
C/ 145 SC 145.3.4	P 187 Silicon Labs	L 21	# 110				"Additionally, classification pe of the device they are co		
Comment Type E	Comment Status A		E	ditorial	Suggested		, ,		
The Voffset and Vpd=	2.7V markers are shifted to the	e left on figure 3	3-34.				v, classification is used by th to which they are connected		PD to mutually identify
SuggestedRemedy Shift Voffset and Vpd=	=2.7V markers to the right, co	rrect position			Response		Response Status C		
Response ACCEPT.	Response Status C				ACCE	71.			
	ed ER/editorial required GR/	/					Pa 1		Page 54 of 80

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn Li 45 5/25/2017 8:55:41 AM SORT ORDER: Page, Line

Cl 145 SC 145.3.6 Stover, David	P 187 Analog Device	L 52	# 167	Cl 145 SC 145.3.6. Yseboodt, Lennart	1 P 189 Philips	L 9	# 277
Comment Type ER "The PD shall draw no case.	Comment Status A	the requested c	<i>Editorial</i> lass in Table." Proper	Comment Type E "DO_CLASSEVENT	Comment Status A I_AUTO"		Editoria
SuggestedRemedy				Spurious '-'.			
".than defined for the	requested Class in Table."			SuggestedRemedy			
Response ACCEPT.	Response Status W			"DO_CLASS_EVENT Response ACCEPT.	_AUTO" Response Status C		
Cl 145 SC 145.3.6 Yseboodt, Lennart	P 188 Philips	L 10	# 275	<i>Cl</i> 145 <i>SC</i> 145.3.6. Beia, Christian	1 P 190 ST Microelec	L 42	# 39
	Comment Status A that request Class 4 or higher t least one of its Modes shall p			Comment Type T	Comment Status A Pclass_PD-2P then the relevant		PD Clas
Type 'the => that'	·			SuggestedRemedy	-		6 6,
	that request Class 4 or higher t least one of its Modes shall p			Change: "NOTE-PDs may be a in a lower value of Pcl To:	assigned to a lower Class than lass_PD."	the PD reques	ted Class, which results
Response ACCEPT.	Response Status C			"NOTE-PDs may be a in a lower value of Pcl	assigned to a lower Class thar lass_PD-2P."	the PD reques	ted Class, which results
ACCEPT.				Response	Response Status C		
Cl 145 SC 145.3.6 Yseboodt, Lennart	P 188 Philips	L 22	# 276	ACCEPT.			
Comment Type ER Swap the first two row	Comment Status A (header rows) of Table 145-2	22, same for 14	Editorial 5-12.				
SuggestedRemedy Per comment.							
Response	Response Status W						

Pa **190** Li **42**

C/ 145	SC 145.3.6.2	-	L 39	# 278	C/ 145	SC 145.3.8	P 193	L 40	# 59
Yseboodt, L	ennart	Philips			Darshan, Ya	ir	Mirosemi		
Comment T	ype T	Comment Status A		PD Class	Comment T	pe ER	Comment Status D		Editori
145.3.6	.1 with the exce signature '0' no	Itoclass shall respond to Phy ption that the PD shall chang earlier than T ACS min and	ge its current dur	ing the first class event	clear.	"PD control d	8 "Inrush to PD current control o elay"	delay". This pa	rameter name is not
	is exempt from r an Autoclass F	145.3.6.1, so it is redundant PD.	to spend a shall	to affirm this is also the	Group to Proposed R		suggest better definition. Response Status Z		
SuggestedF	Remedy				REJEC	,			
	hat implements	Autoclass shall change its c			This cor	nment was W	ITHDRAWN by the commenter		
class sig		arlier than T ACS min and no	b later than 1 AC	S max, as defined in	C/ 145	SC 145.3.8	P 194	L 6	# 33
					Beia, Christi	an	ST Microelectro	onics	
In the ne Autoclas	,	eplace "A PD implementing A	Autoclass" by "A	PD that implements	Comment T	rpe T	Comment Status A		PD Powe
Response		Response Status C					alues from 1 to 8 10 the assigned Class can be 0)	
ACCEP	·Τ.				SuggestedR	emedy			
C/ 145	SC 145.3.8	P 193	L 20	# 32	Recollo	ate Classes f	rom 1 to 8		
Beia, Christi	ian	ST Microelect	tronics		Response		Response Status C		
Comment T	уре т	Comment Status A		PD Power	ACCEP	IN PRINCIP	LE.		
events p PSE as Assigne	produced by the shown in Table ed Class has va			number of class	Remove	class 0 and r	nove class 3 to sequential orde	er.	
SuggestedF	Remedy								
Change "Single- To "Single-	-	Class 1 to 6"							
D		Response Status C							
Response									

Pa **194** Li **6**

C/ 145 SC 145.3.8	P 194 L 26	# 142	C/ 145 SC 145.3	8 P 194	L 31	# 34
Schindler, Fred	Seen Simply, Cisco, T		Beia, Christian	ST Microelect	tronics	
Comment Type TR	Comment Status A	Pres: Darshan5	Comment Type T	Comment Status A		PD Power
systems should provid	ating conditions Single-signature (SS) and Dua de the same power levels. On line 12, a class-4	SS provides at least	Assigned Class has In Table 145-28 Ite	values from 1 to 8 n 13 the assigned Class can't be	e 0	
	26 a class-4 DS provides at least 28.4 W. One V, while on line 27 a class-5 DS provides at lea		SuggestedRemedy			
	e peak power). The math works for the SS data		Change "PI capacitance dui To:	ing MDI_POWER states for sing	gle-signature PD	s"
	m 11 for Class 4, which is "28.4" with "28.3".			ing MDI_POWER states per ass	signed Class for	single-signature PDs"
Replace the Table ite	m 11 for Class 5, which is "37.2" with "42".		and Change:			
Response	Response Status W		"Class 0 to 4" To:			
ACCEPT IN PRINCIP	PLE.		"Class 1 to 4"			
Change peak power	values to "28.3" for class 4 and "37.4" for class	5.	Response	Response Status C		
			ACCEPT IN PRINC	IPLE.		
Class 1 through Class	le 145-28 are used to approximate the ratiomet s 8. These equations may be used to calculate ta Link Layer classification by		There is no reason	to make this dependent upon as	signed class.	
substituting Pclass_P	D or Pclass_PD-2P with PDMaxPowerValue ar D with Pautoclass_PD.	nd for Autoclass by	Change: "Class 0 to 4" To:			
			"Class 1 to 4"			

Pa **194** Li **31**

C/ 145 SC 145.3	3.8 <i>P</i> 194	L 37	# 35	C/ 145 SC	145.3.8.2	2 <i>P</i> 195	L 46	# 60
Beia, Christian	ST Microelec	tronics		Darshan, Yair		Mirosemi		
Comment Type T	Comment Status A		PD Power	Comment Type	TR	Comment Status A		Pres: Darshan5
	s values from 1 to 8 m 14 the assigned Class can be	90		PClass_PD	or PClass_	lso adjust their maximum red _PD-2P by using Autoclass (e. Delete "or Pclass_PD-2P	see 145.3.6.2)."	
				SuggestedReme	edv			
To:	ce during MDI_POWER states fo	0		Change from operating po To "PDs ma	n: "PDs ma ower below also adju	ay also adjust their maximun PClass_PD or PClass_PD- ust their maximum required PClass_PD by using Autocl	2P by using Auto	· · · · · ·
and Change: "Class 0 to 4" To: "Class 1 to 4"				Response ACCEPT IN Strike "or Pc	-	Response Status C _E. p" on page 195, line 46.		
Response	Response Status C			C/ 145 SC	145.3.8.2	2.1 <i>P</i> 196	L 3	# 170
ACCEPT IN PRINC	, CIPLE.			Thompson, Geo		GraCaSI S.A	-	
No reason to make Change: "Class 0 to 4" To: "Class 1 to 4"	e this dependent on assigned cla	SS.		PSE PI and SuggestedReme	the PD PI, edy ext for P802	Comment Status A ot/D2.4: "PD regarding actu the PD may consume great	er"	
C/ 145 SC 145.3	9.8.1 <i>P</i> 195	L 31	# 279	Response	le greater.	 Response Status W		
Yseboodt, Lennart	Philips			ACCEPT IN	PRINCIPI			
	Comment Status A PD is undefined if V PD falls be AY or POWERED state, until V F				-	of comment 171)		
May be a bit too lib	eral							
SuggestedRemedy Adopt yseboodt_02	2_0517_nopower.pdf							
Response	Response Status C							
, ACCEPT	, -							

ACCEPT.

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

Pa **196** Li **3**

C/ 145 SC 145.3.8.2.1 P 196 L 3 # 171 Thompson, Geoff GraCaSI S.A. GraCaSI S.A. </td <td>C/ 145 SC 145.3.8.3 P 196 L 38 # 280 Yseboodt, Lennart Philips P</td>	C/ 145 SC 145.3.8.3 P 196 L 38 # 280 Yseboodt, Lennart Philips P
Comment Type ER Comment Status A Channel Current text in P802.3bt/D2.4: "PD regarding actual channel DC resistance between the PSE PI and the PD PI, the PD may consume greater" SuggestedRemedy Proposed text for P802.3bt/D2.5: "PD regarding actual link section DC resistance, the PD may consume greater" Response Response Status W ACCEPT IN PRINCIPLE. REF 204 REF 204 Response Response	Comment Type TR Comment Status A Editoria "A PSE limits the inrush current to I Inrush and I Inrush-2P , defined in Table 145-16, which is sufficient current to charge C Port or C Port-2P to V Port_PSE-2P when: C Port < 180 mF for single-signature PDs assigned to Class 1 through 6
C/ 145 SC 145.3.8.2.1 P 196 L 8 # 172 Thompson, Geoff GraCaSI S.A.	Response Response Status W ACCEPT.
Comment Type ER Comment Status A Channel Current text in P802.3bt/D2.4: "For Class 5 dual-signature PDs, when additional information is available to the PD regarding actual channel DC resistance between the PSE PI and the PD PI, the PD may consume" 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" Response Response Response Status W	C/ 145 SC 145.3.8.4.1 P 198 L 4 # 173 Thompson, Geoff GraCaSI S.A. GraCaSI S.A. Image: Comment Type ER Comment Status A Channe Current text in P802.3bt/D2.4: "PD regarding actual channel DC resistance between the PSE PI and the PD PI, in any" SuggestedRemedy Proposed text for P802.3bt/D2.5: "PD regarding actual link section DC resistance, in any"
ACCEPT IN PRINCIPLE. REF 204	Response Response Status W ACCEPT IN PRINCIPLE. REF 204

Pa **198** Li **4**

C/ 145 SC 145.3.8.4.1 P 198 L 12 # 281 // seboodt, Lennart Philips P <th>C/ 145 SC 145.3.8.6 P 198 L 25 # 61 Darshan, Yair Mirosemi</th>	C/ 145 SC 145.3.8.6 P 198 L 25 # 61 Darshan, Yair Mirosemi
Comment Type E Comment Status A PD Power "Operating under 145.3.8.4.1 conditions is allowed if P Peak_PD and P Peak_PD-2P requirements are met and the total input power is less than or equal to P Class or P Class- 2P at the PSE PI respectively when calculated over a 1 second interval."	Comment TypeTRComment StatusDPres: ???(TODO #209, #91 145.3.8.6 Page 188 lines 20, 23) (Yair, Fred): Fix PSE section so that PSEs that lower current limit based on class, increase Tlim (or something) in order to deliver needed charge.Pres: ???
Text self-references and this is the second time we repeat that peak power is included in the total 'budget' for input power. I tried rewriting this, but always get into a corner where I need to use the word 'must'. Clearly indicates this text needs to be a shall, but we already have that. Also, 'calculated over a 1 second interval' means the calculation takes 1 second. Not what is meant. SuggestedRemedy Remove quoted text. Response Response Status ACCEPT.	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 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
145 SC 145.3.8.6 P 198 L 24 # 127 card, Jean Texas Instruments Texas Instruments Texas Instruments Texas Instruments	and ILim characteristics. SuggestedRemedy See Fred's suggested remedy.
Comment Type TR Comment Status R PD Power "A PD shall continue to operate without interruption in the presence of transients at the PSE PI as defined in 145.2.8.3."	If not ready, keep it in TODO Proposed Response Response Status Z PROPOSED REJECT.
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 0.1 uF 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.	This comment was WITHDRAWN by the commenter. Cl 145 SC 145.3.8.6 P 198 L 39 # 99 Johnson, Peter Sifos Technologies Pres: Yseboodt Comment Type E Comment Status A Pres: Yseboodt
SuggestedRemedy Replace with: "A PD shall continue to operate without interruption while there is loss of power at PSE PI for up to 30 μs"	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
Response Response Status W	Change to "Table 145-29 defines two PSE output voltage transients and associated channel resistance conditions."
REJECT. Out of scope	Response Response Status C ACCEPT IN PRINCIPLE. Change to "Table 145-29 defines three PSE output voltage transients."

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Pa 198

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 Li 39

 SORT ORDER: Page, Line
 Pa

C/ 145 SC 145.3.8.6 P 199 L 24 # 282 Yseboodt, Lennart Philips	C/ 145 SC 145.3.8.8 P 200 L 17 # 283 Yseboodt, Lennart Philips
Comment Type TR Comment Status A Pres: Ysebc In the transient section Figure 145-31 has the Y axis labeled as "Power", but then proce to show current levels. Upon reflection, the information in this Figure is provided in the text (minus a missing requirement).	"Following a valid detection and a rising voltage transition from V valid to V Class_PD , th PD Physical Layer class signature shall be valid within T Class_PD as specified in Table 145-28 and remain valid for the duration of the classification period."
SuggestedRemedy Adopt yseboodt_01_0517_transients.pdf	The 'classification period' is ill defined. And sure enough, this comes straight out of 802.3af, where there was no mark and this statement made sense.
	SuggestedRemedy
ACCEPT.	"Following a valid detection and a rising voltage transition from V valid or VMark_PD to V Class_PD, the PD Physical Layer class signature shall be valid within T Class_PD as specified in Table 145-28 and remain valid for the duration of the class event."
C/ 145 SC 145.3.8.7 P 200 L 13 # 143	Response Response Status W
chindler, Fred Seen Simply, Cisco, T	ACCEPT IN PRINCIPLE.
A D2.4 text adjustment changed normative text to a Note,	"After entering a DO_CLASS state, the PD Physical Layer class signature shall be valid
	"After entering a DO_CLASS state, the PD Physical Layer class signature shall be valid within T Class_PD as specified in Table 145-28 and remain valid for the remainder of the class event."
A D2.4 text adjustment changed normative text to a Note, "NOTE-The worst-case condition is when both PSE and PD generate the maximum nois allowed by Table 145-16 and Table 145-28, which may cause a higher noise level to appear at the PI than the standalone case as specified by this clause." , which de-emphasized information that the reader should "pay special attention too". T	e "After entering a DO_CLASS state, the PD Physical Layer class signature shall be valid within T Class_PD as specified in Table 145-28 and remain valid for the remainder of the class event." C/ 145 SC 145.3.8.10 P 200 L 34 # 62 Darshan, Yair Mirosemi
A D2.4 text adjustment changed normative text to a Note, "NOTE-The worst-case condition is when both PSE and PD generate the maximum nois allowed by Table 145-16 and Table 145-28, which may cause a higher noise level to appear at the PI than the standalone case as specified by this clause." , which de-emphasized information that the reader should "pay special attention too". T wording is also suboptimal.	e "After entering a DO_CLASS state, the PD Physical Layer class signature shall be valid within T Class_PD as specified in Table 145-28 and remain valid for the remainder of the class event." C/ 145 SC 145.3.8.10 P 200 L 34 # 62 Darshan, Yair Mirosemi Comment Type TR Comment Status A Edite
A D2.4 text adjustment changed normative text to a Note, "NOTE-The worst-case condition is when both PSE and PD generate the maximum nois allowed by Table 145-16 and Table 145-28, which may cause a higher noise level to appear at the PI than the standalone case as specified by this clause." , which de-emphasized information that the reader should "pay special attention too". T wording is also suboptimal.	e "After entering a DO_CLASS state, the PD Physical Layer class signature shall be valid within T Class_PD as specified in Table 145-28 and remain valid for the remainder of the class event." C/ 145 SC 145.3.8.10 P 200 L 34 # 62 Darshan, Yair Mirosemi
A D2.4 text adjustment changed normative text to a Note, "NOTE-The worst-case condition is when both PSE and PD generate the maximum nois allowed by Table 145-16 and Table 145-28, which may cause a higher noise level to appear at the PI than the standalone case as specified by this clause." , which de-emphasized information that the reader should "pay special attention too". T 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 maxim	e "After entering a DO_CLASS state, the PD Physical Layer class signature shall be valid within T Class_PD as specified in Table 145-28 and remain valid for the remainder of the class event." Cl 145 SC 145.3.8.10 P 200 L 34 # 62 Darshan, Yair Mirosemi Comment Type TR Comment Status A Edit In the text "See Figure 145A-1. Effective resistances of RPD_min and RPD_max include the effects of PD pair to pair voltage difference and the PD PI resistive elements. See definition and measurements in Annex 145A." there are wrong Annex number and wrong Figure number.
A D2.4 text adjustment changed normative text to a Note, "NOTE-The worst-case condition is when both PSE and PD generate the maximum nois allowed by Table 145-16 and Table 145-28, which may cause a higher noise level to appear at the PI than the standalone case as specified by this clause." , which de-emphasized information that the reader should "pay special attention too". T 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 maxim noise allowed by Table 145-16 and Table 145-28, which may cause a higher noise level	 "After entering a DO_CLASS state, the PD Physical Layer class signature shall be valid within T Class_PD as specified in Table 145-28 and remain valid for the remainder of the class event." C/ 145 SC 145.3.8.10 P 200 L 34 # 62 Darshan, Yair Mirosemi Comment Type TR Comment Status A Edit In the text "See Figure 145A-1. Effective resistances of RPD_min and RPD_max include the effects of PD pair to pair voltage difference and the PD PI resistive elements. See definition and measurements in Annex 145A." there are wrong Annex number and wrong Figure number. SuggestedRemedy
A D2.4 text adjustment changed normative text to a Note, "NOTE-The worst-case condition is when both PSE and PD generate the maximum nois allowed by Table 145-16 and Table 145-28, which may cause a higher noise level to appear at the PI than the standalone case as specified by this clause." , which de-emphasized information that the reader should "pay special attention too". T 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 maxim noise allowed by Table 145-16 and Table 145-28, which may cause a higher noise level appear at the PI than the standalone case as specified by this clause."	e "After entering a DO_CLASS state, the PD Physical Layer class signature shall be valid within T Class_PD as specified in Table 145-28 and remain valid for the remainder of the class event." C/ 145 SC 145.3.8.10 P 200 L 34 # 62 Darshan, Yair Mirosemi Comment Type TR Comment Status A Edit In the text "See Figure 145A-1. Effective resistances of RPD_min and RPD_max include the effects of PD pair to pair voltage difference and the PD PI resistive elements. See definition and measurements in Annex 145A." there are wrong Annex number and wrong Figure number. SuggestedRemedy Change from "See Figure 145A-1. Effective resistances of RPD_min and RPD_max
A D2.4 text adjustment changed normative text to a Note, "NOTE-The worst-case condition is when both PSE and PD generate the maximum nois allowed by Table 145-16 and Table 145-28, which may cause a higher noise level to appear at the PI than the standalone case as specified by this clause." , which de-emphasized information that the reader should "pay special attention too". T 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 maxim noise allowed by Table 145-16 and Table 145-28, which may cause a higher noise level appear at the PI than the standalone case as specified by this clause."	 "After entering a DO_CLASS state, the PD Physical Layer class signature shall be valid within T Class_PD as specified in Table 145-28 and remain valid for the remainder of the class event." C/ 145 SC 145.3.8.10 P 200 L 34 # 62 Darshan, Yair Mirosemi Comment Type TR Comment Status A Edit In the text "See Figure 145A-1. Effective resistances of RPD_min and RPD_max include the effects of PD pair to pair voltage difference and the PD PI resistive elements. See definition and measurements in Annex 145A." there are wrong Annex number and wrong Figure number. SuggestedRemedy
A D2.4 text adjustment changed normative text to a Note, "NOTE-The worst-case condition is when both PSE and PD generate the maximum nois allowed by Table 145-16 and Table 145-28, which may cause a higher noise level to appear at the PI than the standalone case as specified by this clause." , which de-emphasized information that the reader should "pay special attention too". T 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 maxim noise allowed by Table 145-16 and Table 145-28, which may cause a higher noise level appear at the PI than the standalone case as specified by this clause." Proposed Response Response Status Z	 "After entering a DO_CLASS state, the PD Physical Layer class signature shall be valid within T Class_PD as specified in Table 145-28 and remain valid for the remainder of the class event." CI 145 SC 145.3.8.10 P 200 L 34 # 62 Darshan, Yair Mirosemi Comment Type TR Comment Status A Edit In the text "See Figure 145A-1. Effective resistances of RPD_min and RPD_max include the effects of PD pair to pair voltage difference and the PD PI resistive elements. See definition and measurements in Annex 145A." there are wrong Annex number and wrong Figure number. SuggestedRemedy Change from "See Figure 145A-1. Effective resistances of RPD_min and RPD_max include the effects of PD pair to pair voltage difference and the PD PI resistive elements. See definition and measurements in Annex 145A." there are wrong Annex number and wrong Figure number.
A D2.4 text adjustment changed normative text to a Note, "NOTE-The worst-case condition is when both PSE and PD generate the maximum noise allowed by Table 145-16 and Table 145-28, which may cause a higher noise level to appear at the PI than the standalone case as specified by this clause." , which de-emphasized information that the reader should "pay special attention too". T 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 maxim noise allowed by Table 145-16 and Table 145-28, which may cause a higher noise level appear at the PI than the standalone case as specified by this clause." Proposed Response Response Status Z PROPOSED REJECT.	 "After entering a DO_CLASS state, the PD Physical Layer class signature shall be valid within T Class_PD as specified in Table 145-28 and remain valid for the remainder of the class event." Cl 145 SC 145.3.8.10 P 200 L 34 # 62 Darshan, Yair Mirosemi Comment Type TR Comment Status A Edite In the text "See Figure 145A-1. Effective resistances of RPD_min and RPD_max include the effects of PD pair to pair voltage difference and the PD PI resistive elements. See definition and measurements in Annex 145A." there are wrong Annex number and wrong Figure number. SuggestedRemedy Change from "See Figure 145A-1. Effective resistances of RPD_min and RPD_max include the effects of PD pair to pair voltage difference and the PD PI resistive elements. See definition and measurements in Annex 145A." there are wrong Annex number and wrong Figure number.

Pa **200** Li **34**

Cl 145 SC Darshan, Yair	345.3.8.10	P 200 Mirosemi	L 39	# 63	C/ 145 Schindler,		5.3.8.10		2 01 h Simply,	L 8 Cisco, T	# 144
Comment Type		Comment Status R		PD Unbalance	Comment	Туре в	ER	Comment Status		,	Pres: Darshan
unbalance re that meet Ec SuggestedReme Change fron	equirements.", i quation (145-26 edy n "PDs that me	Equation (145-26) intrinsion it is not clear which unbal i) intrinsically meet all PD et Equation (145-26) intrin n (145-26) intrinsically me	ance requireme unbalance requinsically meet ur	uirements." balance requirements."	duty cy when F	e-signature vcle, and s PD PI pair	shall not s of the s		unb, as c	lefined in Table	TCUT-2P min and 5 % 145-16 on any pair reference table.
Response	R	esponse Status W			Suggested	Remedy					
REJECT.					Replac	e the call	ed out te	xt with,			
C/ 145 SC	e for an editoria 2 145.3.8.10	al change. The existing to	ext is clear. <i>L</i> 4	# 64	duty cy	cle, and s	shall not				TCUT-2P min and 5 % on (145-12) on any pair
Darshan, Yair		Mirosemi			Response			Response Status	С		
Comment Type		Comment Status A		Editorial	ACCEI	PT.					
		llustrates the relationship he figure number shold b			C/ 145	SC 14	5.3.8.10	P	201	L 8	# 65
SuggestedReme	edy				Darshan, Y	'air		Miro	semi		
effective res To " In the te	istances at "	 1 illustrates the relations A-2 illustrates the relatior 			min an	text "Singl d 5 % dut	ty cycle,		exceed IC ed IPeak	-2P-unb, as defi	Pres: Darshan- onger than TCUT-2P ned in Table 145-16 on e spec broken:
Response ACCEPT.	R	esponse Status W			1) IPea 2) Equ is not t design the fac knowle minimu As a re 2P_un values march	ak-2P-unb ation 145- he maxim ed to the t that the edge of PS um voltage sult of the b and Ipea that are a for the co	is not de -12 belor num Ipea maximur PD does SE voltag e which v e above a ak-2P_ur a functior	efined in Table 14 ngs to PSE section k-2P_unb since it n Ipeak-2P_unb (i n't control the acture ge and more impor- will create the may arguments we need n i.e. Icon_PD-2P_ n of PD parameter	5-16. It is and set depends ind also t ial Ipeak tant, they imum po d to defin unb and s only (as ee ysebo	defined by Equation the actual Ipeak on PSE voltage to the maximum -2P-unb since it y can be connec ssible current. he new PD parar Ipeak_PD-2P_u s we did per the podt_08_0315_p	ation 145-12. -2P_unb current which . PDs must be Icon-2P_unb) due to
					Suggested	, Remedy	0	·	_	- /	
						darshan_(_	•			
					Proposed I	Deenenee		Response Status	_		

REJECT.

This comment was WITHDRAWN by the commenter.

TYPE: TR/technical required ER/editorial required GR/gener	al required T/technical E/editorial G/general	Pa 201	Page 62 of 80
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	Li 8	5/25/2017 8:55:41 AM
SORT ORDER: Page, Line			

Unbalance

Cl 145 SC 145. Darshan, Yair	.3.8.10	P 201 Mirosemi	L 12	# 66	C/ 145 Yseboodt,	SC 145.3. Lennart	8.10	P 201 Philips	L 24	#	284	
	his comment wa deal with DS ur			PD Unbalance TODO (Yair, Lennart): See Darshan_12 and	Comment Equati Suggested Fix.	on 145-28 and	Comment S d 145-29 do not h		e list below.			Editorial
		(Agreed by Lennar een resolved comp		owing adopted	Response ACCE	PT.	Response S	tatus W				
	0317.pdf adopte	d per comment #3	20. It also addre	ssing comment #321	C/ 145	SC 145.3.	8.10	P 201	L 34	#	174	
D2.3 (145.3.8.10	text lcon_pd-2P	P=Pclass_PD-2P/V	pd)	0	Thompson	, Geoff		GraCaSI S.A				
		r comment 167 reg			Comment	Type ER	Comment S	Status A				Channe
darshan_12 per c action item to che WAS ALREADY should have been	comment #164 E eck the integrity ADRESSED BY OBE by comm	D2.3 and was without of the proposal in (COMMENT #320 pent #320 D2.3 and	Irawn by me with darshan_12 with D2.3. In fact Co I the subject of th	the agreement per this comment #321 THAT	"chanr RPD_i resista	nel".) "Table max as functio Ince"	.3bt/D2.4: (The cu e 145-16, the char on of system end-	nel resistance	e, and influence	of RPD_m	nin and	
does.					Suggested		002 26+/D2 5+ (Th	a colution prov	ided ecourses "a	ohonnol" -	link	
SuggestedRemedy No change to the	spec is required	d.			section RPD_	n.) "Table 1 max as functio	302.3bt/D2.5: (The 45-16, the link se on of system end-	ction resistant	ce, and influence	e of RPD_r	min ar	nd
Response	Respon	se Status C			resista	nce"						
ACCEPT.					Response		Response S	tatus W				
C/ 145 SC 145	3 8 10	P 201	L 13	# 67	ACCE	PT IN PRINCI	IPLE.					
Darshan, Yair	.3.0.10	Mirosemi	L 13	# 67	REF 2	04						
Comment Type EF	R Comme	ent Status A		Editorial	C/ 145	SC 145.3.	8.10	P 201	L 39	#	107	
				fined in Equation (145-	Jones, Ch	ad		Cisco				
		and 5 % duty cycl pair", missing ref		Table 145-16, and shall	Comment	Туре Е	Comment S	Status A			U	Inbalance
SuggestedRemedy	_FD-2F OII ally	pair , missing ren		011 145-29.			min, RPD_max e					
Change to "Dual-				fined in Equation (145- Table 145-16, and shall	unbala	ince does not	and connectors) exceed ICon-2P- S. See Annex 145/	unb as defined				
not exceed IPeak	_PD-2P, as defi	ined in Equaton (1	45-29), on any p	air"	Suggested							
Response ACCEPT.	Respon	se Status W			chang chann pair cu	e to: RPD_mir el (cables and irrent including	n and RPD_max, I connectors) and g unbalance does tting conditions. S	the PSE, boun not exceed IC	nds the current s Con-2P-unb as de	such that th	he ma	aximum
					Response		Response S	tatus C				

ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general Page 63 of 80 Pa **201** COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn 5/25/2017 8:55:41 AM Li 39

SORT ORDER: Page, Line

C/ 145 SC 145.	3.8.10	P 201	L 39	#	175	C/ 145		145.3.9	P 202	L 42	# 285	
Thompson, Geoff		GraCaSI S.A.				Ysebood	,		Philips			
Comment Type ER		nt Status A			Cha			т	Comment Status A			D MPS
		D_min, RPD_max e cables and connect			any other				first class event in the range r standby MPS power."	of T LCE_PD	nay reduce T MPS	S_PD
SuggestedRemedy						Redu	ce it co	mpared to	what? This may be interpret	ed as reducing	it below what it allc	wed
		RPD_min, RPD_ma		along v	vith any othe		e table.		······			
		ection and the PSE				Suggeste	dReme	edy				
Response ACCEPT IN PRIN	,	e Status W							first class event in the range aw a lower standby MPS pov		nay use the shorte	er T
REF 204						Respons	Э		Response Status C			
						ACC	EPT.					
C/ 145 SC 145.	3.10	P 202	L 33	#	156		00		D a a a	1.40		
Stewart, Heath		Analog Devices				C/ 145		145.3.9	P 203 ST Microelec	L 10	# 40	
Comment Type ER		nt Status R			PD I					IONICS		
		nally inserted due to				Commen		т	Comment Status A		Р	D MPS
		s specifically introde erenced to the PD F							lues from 1 to 8 the assigned Class can be 0			
enforced at the PE	PI, however we	e strongly feel the s	tandard will be	weaker	ned by	0			the assigned Class can be t			
		sured at the PD PI	in these two ir	stance	s (lines 33, 3			eay				
Example for line 3		shall consist of cur	rent draw equa	l to or a	ahove	Char "Clas	ige: s 0 to 4	L"				
		of TMPS_PD follo					0 0 10 4	r				
no longer than TM	PDO_PD.					"Clas	s 1 to 4	μ"				
SuggestedRemedy						Respons	Э		Response Status C			
Revoke removal o optional MPS drop		he PD PI" on lines	33 and 36 just	prior to	"followed by	an ACC	EPT.					
Response	Respons	e Status W										
REJECT.												
			statement on li	00 16 th		n						

Pa **203** Li 10

V 145 SC 145.4.1 P 204 L 16 # 69 arshan, Yair Mirosemi	C/ 145 SC 145.4.1 P 204 L 16 # 122 Peker, Arkadiy Mirosemi Mirosemi 122 123
comment Type ER Comment Status A Pres: Peker	Comment Type E Comment Status A Pres: Peker
In the text "Accessible external conductors are specified in subclause 6.2.1 b) of IEC 60950-1 and IEC 62368-1.", the 802.3bt requires to meet both standards IEC60950-1 (which will be withdrawn by the end of 2018) and IEC 62368-1. From a safety point of view, device or system need to satisfy just one of this standard. Therefore, we should change AND to OR.	In the text "Accessible external conductors are specified in subclause 6.2.1 b) of IEC 60950-1 and IEC 62368-1.", the 802.3bt requires to meet both standards IEC60950-1 (which will be withdrawn by the end of 2018) and IEC 62368-1. From a safety point of view, device or system need to satisfy just one of this standard. Therefore, we should change AND to OR.
uggestedRemedy	SuggestedRemedy
Adopt Arkadiy_01_0517.pdf	Adopt Arkadiy_01_0517.pdf
Pesponse Response Status C	Response Response Status C
ACCEPT IN PRINCIPLE.	ACCEPT IN PRINCIPLE.
OBE by 240	OBE by 240
### ###	### ###
Comment 240 has the following response: ACCEPT IN PRINCIPLE.	Comment 240 has the following response: ACCEPT IN PRINCIPLE.
adopt Walker_1_0517_rev_4.pdf	adopt Walker_1_0517_rev_4.pdf
P 204 L 16 # 121 eker, Arkadiy Mirosemi	Cl 145 SC 145.4.1 P 204 L 16 # 240 Walker, Dylan Cisco
comment Type E Comment Status A Pres: Peker	1 Comment Type TR Comment Status A Pres: Walker
In the text "Accessible external conductors are specified in subclause 6.2.1 b) of IEC 60950-1 and IEC 62368-1.", standard specifies IEC 60950-1 subclause 6.2.1b but does	Need to add the pertinent subclause for IEC 62368-1.
not specify similar IEC62368-1 subclause. For consistency, we should add subclause of IEC62368-1	(D2.3 TODO - Comment #332)
	SuggestedRemedy
uggestedRemedy	See "Walker_1_0517_rev_4.pdf"
Adopt Arkadiy_01_0517.pdf	Response Response Status C
esponse Response Status C	ACCEPT IN PRINCIPLE.
ACCEPT IN PRINCIPLE.	adopt Walker_1_0517_rev_4.pdf
OBE by 240	
****	This comment resolves comments: 68, 69, 72, 121, 122, 125, 239, 241, 242, 243, 244, 245, 246, 247
Comment 240 has the following response: ACCEPT IN PRINCIPLE.	

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

Pa **204** Li **16** Page 65 of 80 5/25/2017 8:55:41 AM

Cl 145 SC 145.4.1 P 204 Darshan, Yair Mirosemi	L 16	# 68	Cl 145 SC Peker, Arkadiy	\$ 145.4.1	P 20 Mirose		18 ‡	[‡] 123
Comment Type ER Comment Status A		Pres: Peker1	Comment Type	т	Comment Status	R		Pres: Peker1
In the text "Accessible external conductors are spe 60950-1 and IEC 62368-1.", standard specifies IE not specify similar IEC62368-1 subclause. For consistency, we should add subclause of IEC6 SuggestedRemedy Adopt Arkadiy_01_0517.pdf	C 60950-1 subcl		strength test electrical iso Customers r electrical iso IEEE802.3 r protective co	s:", there blation. nay argue lation requ equiremen omponents	cal isolation shall with is an ambiguity in cu (and we have many s irements but does no ts are more stringent as it allowed in IEC	rrent IEEE 802. uch cases) tha t meet IEEE802 than UL/IEC a 60950-1 5.2.2	3bt requirement t a product meet 2.3. Customers nd does not allow Note 4 as follow	ts for UL/IEC believes that w to remove s:
Response Response Status C					providing a d.c. path or filter capacitors, vol			
ACCEPT IN PRINCIPLE.			should be di			lage infiniting de	vices of surge s	uppressors,
OBE by 240			IEEE specs	or at leas	ch allow to remove co t IEEE802.3bt should			
### ### ###			IEC60950 or		5.			
Comment 240 has the following response:			SuggestedReme Adopt Arkad		7 ndf			
ACCEPT IN PRINCIPLE.			Response	ly_01_001	Response Status	^		
adopt Walker_1_0517_rev_4.pdf			REJECT.		Response Status	C		
X 145 SC 145.4.1 P 204	L 18	# 70	Out of scope	e. Howeve	r, an 802.3 ad hoc ha	s been propose	ed to consider th	ese issues.
Darshan, Yair Mirosemi			C/ 145 SC	145.4.1	P 2)4 L	20 #	# 241
comment Type TR Comment Status R		Pres: Peker1	Walker, Dylan		Cisco			
In the text "This electrical isolation shall withstand strength tests:", there is an ambiguity in current I			Comment Type	TR	Comment Status	Α		Pres: Walker1
electrical isolation. Customers may argue (and we have many such ca	ases) that a produ	ict meet UL/IEC	It's jumping subclause fo		require IEC 62368-1 (68-1.	compliance. Als	so, need to add t	he pertinent
electrical isolation requirements but does not meet IEEE802.3 requirements are more stringent than L			(D2.3 TODC	- Comme	nt #332)			
protective components as it allowed in IEC 60950 "NOTE 4 Components providing a d.c. path in para			SuggestedReme	edy				
as discharge resistor for filter capacitors, voltage li			See "Walker	_1_0517_	rev_4.pdf"			
should be disconnected." The requirements which allow to remove compon IEEE specs or at least IEEE802.3bt should have			Response ACCEPT IN	PRINCIPL	Response Status E.	С		
IEC60950 or IEC62368.		,	OBE by 240					
SuggestedRemedy			0DL 0y 240					
Adopt Arkadiy_01_0517.pdf			### ### ###					
Response Response Status C			Comment 24	10 has the	following response:			
REJECT.			ACCEPT IN					
• • • • • • • • • • • • •	proposed to cor	aider these issues	adopt Walke	or 1 0517	rov 4 pdf			
Out of scope. However, an 802.3 ad hoc has beer	i proposed to cor	isider these issues.		"_1_0317_	_iev_4.pui			

COMMENT STATUS: D/disp SORT ORDER: Page, Line accepted R/rejected op

C/ 145	SC 145.4.1	P 204	L 22	# 242	C/ 145	SC 145.4.1	P 204	L 27	# 71
Walker, Dyla	an	Cisco			Darshan, Ya	ir	Mirosemi		
Comment Ty	vpe TR	Comment Status A		Pres: Walker1	Comment Ty	rpe TR	Comment Status R		Pres: Peker
subclaus	ing the gun to r se for IEC 6236 DDO - Commen		nce. Also, need t	o add the pertinent	be no in 1, during V dc". T	sulation break the test. The his compliance	wing compliance criteria for th down, as defined in subclause resistance after the test shall e criteria aplies for a) and th mpliance requirements are di	e 5.2.2 of IEC 60 be at least 2 M b) and c) electric	0950-1 and IEC 62368- ohm, measured at 500 cal test procedures.
SuggestedR See "Wa	e <i>medy</i> alker_1_0517_r	ev_4.pdf"			Require	nents a) and	b) compliance criteria per pa sulation breakdown during tes	ragraph 5.2.2 IE	C60950:
Response ACCEP ⁻	T IN PRINCIPLI	Response Status C			to have voltage	occurred wher	es in an uncontrolled manner	sult of the applic	cation of the test
OBE by	240						er paragraph 6.2.23 IEC6095		
### ###	###				- during	the applicatior	mage to insulation is verified in of the impulses, by observat	ion of oscillograi	ms. Surge suppressor
	nt 240 has the f T IN PRINCIPLI	ollowing response: E.			- after a surge su	pplication of al	n through insulation is judged I the impulses, by an insulation permitted while insulation resis	n resistance tes stance is being r	t. Disconnection of neasured. The test
adopt W	alker_1_0517_	rev_4.pdf			10 % les	s than the sur	r, if surge suppressors are lef ge suppressor operating or st		
C/ 145	SC 145.4.1	P 204	L 23	# 243	resistan	ce shall not be	less than 2 MO."		
Walker, Dyla	an	Cisco					ements that The resistance referring just to impulse test		
	•	Comment Status A equire IEC 62368-1 complia 8-1.	nce. Also, need t	Pres: Walker1 o add the pertinent	and b). ⁻ to be sp	herefore com ecify correctly	pliance critea should be remo for case a) and b) and separa 1950 or IEC62368.	oved at all from	IEEE802.3bt or it need
(D2.3 TC	DDO - Commen	it #332)			SuggestedR	emedy			
SuggestedR					Adopt A	rkadiy_01_051	7.pdf		
00	alker_1_0517_r	ev_4.pdf"			Response		Response Status C		
Response		Response Status C			REJECT				
ACCEP	T IN PRINCIPLI	≣.			Out of s	cope. Howeve	er, an 802.3 ad hoc has been	proposed to con	sider these issues.
OBE by	240								
### ###	###								
	nt 240 has the f T IN PRINCIPLI	ollowing response: E.							
adopt W	alker_1_0517_	rev_4.pdf							

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

Pa **204** Li **27**

Peker, Arkadiy	Mirosemi		# 124	Walker, Dylan		Cisco		# 244
Comment Type T	Comment Status R		Pres: Peker1	Comment Typ	e TR	Comment Status A		Pres: Walker
be no insulation breakdo 1, during the test. The re V dc". This compliance However a) and b) com Requirements a) and b) "There shall not be insu to have occurred when t voltage rapidly increases the flow of current". For requirements c): per "For impulse tests, dama - during the application of operation or breakdown - after application of all t surge suppressors is pe voltage is 500 V d.c. or, 10 % less than the surge resistance shall not be less Therefore IEEE requiren measured at 500 V dc" r and b). Therefore compl to be specify correctly for requirements of IEC6099 SuggestedRemedy Adopt Arkadiy_01_0517 Response REJECT.	nents that" The resistance eferring just to impulse test iance critea should be remo r case a) and b) and separa 50 or IEC62368.	 5.2.2 of IEC 6 be at least 2 M and c) electrifferent than for agraph 5.2.2 IE t. Insulation bre sult of the appli that is the insu 0-1: n one of two wa on of oscillogra from the shape n resistance tes tance is being is in place, a d.c. riking voltage. T after the test sh c) and not to by dat all from tely to case c) 	0950-1 and IEC 62368- ohm, measured at 500 ical test procedures. c) impulse test. EC60950: akdown is considered cation of the test llation does not restrict wys, as follows: ims. Surge suppressor e of an oscillogram. st. Disconnection of measured. The test test voltage that is The insulation hall be at least 2 Mohm , steady stay tests a) IEEE802.3bt or it need according to	subclause (D2.3 TOE SuggestedRer See "Walk Response ACCEPT OBE by 24 ### ### # Comment ACCEPT	for IEC 623 DO - Comme medy ker_1_0517_ IN PRINCIP 40	ent #332) _rev_4.pdf" <i>Response Status</i> C LE. e following response: LE.	nce. Also, need	to add the pertinent

Pa **204** Li **27**

C/ 145 SC 145.4.1 P 204 L 27 # 125 Peker, Arkadiy Mirosemi	C/ 145 SC 145.4.1 P 204 L 27 # 72 Darshan, Yair Mirosemi							
Comment TypeEComment StatusAPres: Peker1The text "There shall be no insulation breakdown, as defined in subclause 5.2.2 of IEC60950-1 and IEC 62368-1, during the test. The resistance after the test shall be at least 2M ohm, measured at 500 V dc." specifiesIEC 60950-1 subclause 5.2.2 but does notspecify similar IEC62368-1 subclause. For consistency , we should add subclause 5.4.9.2of 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 TypeERComment StatusAPres: PerThe text " There shall be no insulation breakdown, as defined in subclause 5.2.2 of IEC60950-1 and IEC 62368-1, during the test. The resistance after the test shall be at leastM ohm, measured at 500 V dc." specifiesIEC 60950-1 subclause 5.2.2 but does notspecify similar IEC62368-1 subclause. For consistency , we should add subclause 5.4.9of IEC62368-1.Therefore in IEEE 802.3bttext can be change from "IEC60950-1 and IEC62368-1: to"IEC60950-1 or IEC62368-1".See arkadiy_01_0517.pdf for more issues about this text.							
SuggestedRemedy Adopt arkadiy_01_0517.pdf.	SuggestedRemedy Adopt arkadiy_01_0517.pdf.							
Response Response Status C ACCEPT IN PRINCIPLE.	Response Response Status C ACCEPT IN PRINCIPLE.							
OBE by 240 ### ###	OBE by 240 ### ###							
Comment 240 has the following response: ACCEPT IN PRINCIPLE.	Comment 240 has the following response: ACCEPT IN PRINCIPLE.							
adopt Walker_1_0517_rev_4.pdf	adopt Walker_1_0517_rev_4.pdf							

Pa **204** Li **27**

					-						
C/ 145	SC 145.4.1.	1.2 P 205	L 19	# 245	C/ 145	SC 14	5.4.7	P 210	L 7	# 30	9
Walker, Dy	/lan	Cisco			Zimmerma	an, George	Э	CME Consultin	g/Aqua		
Comment	Type ER	Comment Status A		Pres: Walker1	Comment	Туре -	TR	Comment Status A			AES
62368	-1, as well as ar	equirements may be found in ny local and national codes re	elated to safety."		ANSI	X3.263:19	95 for a	ss requirements as specified 100 Mb/s PHY, and 40.8.3.1 requirements for higher speed	for a 1000 N	lb/s PHY." does	
	nce can be sligh)950-1.	itly modified to clarify that the	e reference to "So	ection 6" only applies to		ge "and 40		or a 1000 Mb/s PHY." to read,			PHY,
(D2.3	TODO - Comme	ent #332)			126.8	.2.2 for a 2	2.5 Gb/s	or 5 Gb/s PHY, and 55.8.2.1	for a 10 Gb/s	s PHY."	
Suggested	lRemedy				Response)		Response Status W			
See "\	Valker_1_0517_	_rev_4.pdf"			ACCE	PT.					
Response		Response Status C			C/ 145	SC 14	5.4.8	P 210	L 16	# 17	6
ACCE	PT IN PRINCIP	LE.			Thompsor	n, Geoff		GraCaSI S.A.			
OBE b	oy 240				Comment		ER 2802 3bt	Comment Status A /D2.4: "100BASE-TX shall e	enforce chan	nel intra-pair cu	<i>Channel</i>
### ##	## ###					ance (see					non
	ient 240 has the PT IN PRINCIP	e following response: LE.				sed text fo		3bt/D2.5: "100BASE-TX sha 145A.1)"	all enforce lin	k section intra-	bair
adopt	Walker_1_0517	_rev_4.pdf			Response)	,	Response Status W			
C/ 145	SC 145.4.4	P 207	L 33	# 303	ACCE	PT IN PR	INCIPLI	•			
	an, George	CME Consul	ting/Aqua		REF 2	204					
Table	<i>Type</i> T 145-34 is incons)GBASE-T.	Comment Status A sistent with new table 33-19b	and has incorre	AES ct bandwidths for 5G	C/ 145 Thompsor	SC 14 n, Geoff	5.4.9	P 211 GraCaSI S.A.	L 4	# 17	7
Suggested	Remedy				Comment	Type I	ER	Comment Status A			Channel
Chang	je upper frequer	ncy for 5G to 250 MHz and 10	DG to 500 MHz		Curre	nt text in F	802.3bt	/D2.4: (Text and figure are un	necessary a	nd confusing)	
Response		Response Status C			Suggestee	dRemedy					
ACCE	PT.	·			Propo	sed text fo	or P802.	3bt/D2.5: Delete cl. 145.4.9 a	nd Figure 14	5-38	
					Response ACCE	PT IN PR	INCIPLI	Response Status C E.			
					Delete	e figure 14	5-38. E	ditor to add reference to 4 co	nnector mode	el from 11801.	

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 **211** Li **4** Page 70 of 80 5/25/2017 8:55:41 AM

C/ 145 SC 145.4.9 Thompson, Geoff	P 212 GraCaSI S.A.	L 51	# 178	Cl 145 SC 145.5.3.2 Schindler, Fred	<i>P</i> 218 Seen Simp	<i>L</i> 41 oly, Cisco, T	# 145
Comment Type ER Current text in P802.3bt/I	Comment Status A D2.4:cabling channel shall.		Channel		Comment Status A ed in green font that shoul	ld be located in clause	Pres: Darshan1 30 of our amended
	bt/D2.5:cabling "channel" : Response Status W	shall		document. page 218 aLldpXdot3LocReady page 227			
<i>Cl</i> 145 <i>SC</i> 145.4.9 Thompson, Geoff	P 213 GraCaSI S.A.	L1	# 179	aLldpXdot3LocReadyA aLldpXdot3LocReadyB			
Comment Type ER	Comment Status A		Channel	A solution is provide be before submission.	low and should be reviewe	ed by participants to im	prove the text
	D2.4: The requirements for th , it is the "link segment" whic		ory 5 channel are	SuggestedRemedy			
SuggestedRemedy	, it is the link segment whic	n is defined)		Related cross reference	es to these variables also r	need to be fixed.	
segment for 100BASE-T scope of cl. 25. <i>Response</i> ACCEPT IN PRINCIPLE.	5" text in suggested remedy.			30.xxx aLldpXdot3LocR ATTRIBUTE APPROPRIATE SYNTA An ENUMBER pReadyPSE pReadyPD BEHAVIOUR DEFINED	AX: ATED VALUE that has on PSE PD	ne of the following entrie	
Jones, Chad	Cisco				initialized by the by the loc		
near-end crosstalk (MDA specified. SuggestedRemedy change to: To bound the loss and alien FEXT loss	coupled between link segme NEXT) loss and multiple dist	urber alien FEXT nts, multiple dist	(MDAFEXT) loss is	pReadyPSE pReadyPD BEHAVIOUR DEFINED A read-only implementa classification has been	AX: ATED VALUE that has on PSE PD	o indicate whether the I	Data Link Layer
	Response Status C			for Mode A for a PD.;			
ACCEPT.				30.xxx aLldpXdot3LocR ATTRIBUTE APPROPRIATE SYNT/			
TYPE: TR/technical required COMMENT STATUS: D/dispa SORT ORDER: Page, Line		•		eneral tten C/closed U/unsatisfied Z		218 41	Page 71 of 80 5/25/2017 8:55:41 A

pReadyPSE pReadyPD	RATED VALUE that has one PSE PD	of the following e	ntries:	C/ 145 Darshan, `	SC 145.5.3.3. 2 Yair	2 P 219 Mirosemi	L 31	# 73			
BEHAVIOUR DEFINE A read-only implement	D AS: tation-specific value used to	ndicate whether t	he Data Link Layer	Comment		Comment Status A		DLL			
	n initialized by the by the loca			pse_power_update variable is used by the state machine but is missing from the vari list in the PSE section.							
Response	Response Status C										
ACCEPT IN PRINCIPI	LE.			Suggested Copy		oower_update from					
OBE by 77					.5.4 into 145.5.3.3.						
### ### ### Comment 77 has the f	ollowing response:			Response ACCE	PT IN PRINCIPLE	Response Status W					
ACCEPT. Suggested remedy:				Сору	with editorial licens	se as reference to Figure	is not needed.				
Adopt darshan_01_05 	•	<i>L</i> 1	# 146	C/ 145 Yseboodt,	SC 145.5.3.4.5 Lennart	5 P 227 Philips	L 18	# 287			
Schindler, Fred	Seen Simply	, Cisco, T		Comment		Comment Status A		Editorial			
Comment Type ER	Comment Status A		Editorial		51	45-44 at the bottom of the	e REQUEST state				
Table 145-39 is split of	ver two pages and this needs	s to be made clea	r on the second page.	Suggestee	dRemedy						
SuggestedRemedy				Fix.	,						
Modify the second tab	le heading to add "(continued	l)" at the end of th	e title.	Response	,	Response Status C					
Response	Response Status W			ACCE	PT.						
ACCEPT IN PRINCIPI	LE.			C/ 145	SC 145.5.3.6.2	2 P 228	L 26	# 74			
Editor to fix by either n	ot splitting table or by sugge	sted remedy.		Darshan, '	Yair	Mirosemi					
C/ 145 SC 145.5.3	P 219	L 31	# 286	Comment	Type TR	Comment Status A		Pres: Darshan2			
Yseboodt, Lennart	Philips					 variable is used by the 2. We do have pse_power 		is missing from the			
Comment Type ER	Comment Status A		Editorial	pse_p	ower_update_sec	that do it but we may nee		m from _pri and _sec			
During the splitting of t	the DLL variable sections, se	veral subclauses	became empty.	to _alt							
SuggestedRemedy				Suggestee	,	- 14					
Delete: - 145.5.3.3.1				•	darshan_02_0517	•					
- 145.5.3.3.3 - 145.5.3.6.1				Response ACCE	PT IN PRINCIPLE	Response Status C					
- 145.5.3.6.3	Deenenee Status 14			Adopt	darshan_02_0517	_final.pdf					
Response ACCEPT.	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

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Pa **228** Li **26**

Darshan, Yair	145.5.3.6.2	P 228 Mirosemi	L 30	# 75	C/ 145 Darshan, Ya		5.5.3.6.2	P 229 Mirosemi	L 34	# 77
Comment Type	TR Com	nment Status A		DLL	Comment Ty	vpe 1	R Cor	mment Status A		Pres: Darshar
defined in 14 March 2017 (5.3.3, and the foll (darshan_03_031 oblem is that "_alt	rol state diagram (Fig lowing variables:" was 7Rev007F.pdf) but we (X)" is not defined in ?	not in the appro e need it for the i	oved baseline from	that the aLldpXd 1) the a aLldpXd	PSE has ot3LocR LldpXdc ot3LocR	s initialized Da eady attribute t3LocReady r	(X) An implementation- ata Link Layer classific e (30.12.2.1.20)." the need to be "aLldpXdot are already used in th	cation. This varia re are few upda 3LocReadyA ar	tes need to be made:
Change from is defined in ?	"The PSE power 145.3.3, and the f	ollowing variables:") uses "_alt(X)", which gram shown in Figure	3) The a 4. The li	LldpXdo LldpXdo nk for 30	t3LocReadyA).12.2.1.20 is	A and aLldpXdot3LocR A, aLldpXdot3LocRead correct for aLldpXdot3	lyB are not inclu BLocReady whic	ided in Table 30-7. h is used for single-
145-41 over e	each pairset indep	pendently unless othe	rwise specified.	All the parameters that _alt(X)" where "X" can	signatur SuggestedR		ate machine a	and is incorrect for the	e dual-signature	DLL state machine.
be "A" or "B".		t ends with the suffix '		ve different values for	••		01_0517.pdf			
Response		onse Status W			Response	_	Res	ponse Status C		
ACCEPT IN F	,				ACCEP"					
Change from	"The PSE power	control state diagram) (Figure 145-41)) uses "_alt(X)", which				nents: 79, 145		
is defined in '	145.3.3, and the f	ollowing variables:"			C/ 145		5.5.3.6.5	P 231	L 51	# 78
		vide the behavior of th			Darshan, Ya			Mirosemi		
apply to Alter be "A" or "B".	native A and Alte	t ends with the suffix '	I with the suffix "	he parameters that _alt(X)" where "X" can ve different values for		nges for		<i>mment Status</i> A jure 145-45 was not im df	plemented per	DI
Alternative A		·			SuggestedR	emedy				
	145.5.3.6.2	P 229	L 18	# 76	Change signatur		gure 145-45-I	PSE power control sta	-	n connected to a dual-
Cl 145 SC Darshan, Yair Comment Type		Mirosemi hment Status A		DLL	To "Figu	re 145-4		r control state diagram	Alternative (X)	when connected to a
Darshan, Yair <i>Comment Type</i> The text "Wh	E Com en a PD mode is	nment Status A not active, the value s	shall be set to ze		To "Figu dual-sig	re 145-4	D mode (X)"		Alternative (X)	when connected to a
Darshan, Yair <i>Comment Type</i> The text "Wh baseline in da	E Com en a PD mode is arshan_03_0317	nment Status A not active, the value s	shall be set to ze		To "Figu dual-sigu <i>Response</i>	re 145-4 nature P	D mode (X)"	r control state diagram ponse Status C	Alternative (X)	when connected to a
Darshan, Yair Comment Type The text "Wh baseline in da SuggestedRemed	E Com en a PD mode is arshan_03_0317 dy	nment Status A not active, the value s		ero." was not in the	To "Figu dual-sigu <i>Response</i> ACCEP ⁻	re 145-4 nature Ρ Γ IN PRI	D mode (X)" <i>Res</i> j NCIPLE.			

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 **231** Li 51

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C/ 145 SC	145.5.3.7.2	P 233	L 29	# 79	C/ 145	SC 145	.5.4	P 236	L 28	#	147
Darshan, Yair		Mirosemi			Schindler,	Fred		Seen Simply	, Cisco, T		
Comment Type	TR	Comment Status A		Pres: Darshar	1 Comment	Гуре Е	R	Comment Status A			Editoria
indicates that variable maps updates need	t the PD has s into the aL d to be made	mode(X) An implementatio initialized Data Link Layer dpXdot3LocReady attribut : ady need to be "aLldpXdot3	classification fo e (30.12.2.1.20)	r mode(X). This ." there are few	"The st	ate diagra s overly bi	ms dese	t use the sentence, cribe the behavior above.", d can be made more speci		ie appropr	iate state
		they are already used in the			Suggested	Remedy					
variable list. 2) The aLldp	Xdot3LocRea	adyA and aLldpXdot3LocRo adyA, aLldpXdot3LocRead	eadyB are not c	efined in clause 30.				n page 235, Line 28, repla igures 145-41 and Figure 7		the beha	vior above."
4. The link for	r 30.12.2.1.2	0 is correct for aLldpXdot3 rrect for the dual-signature	LocReady whic					n page 236, Line 50, repla igures 145-45 and Figure 7		the beha	vior above."
SuggestedRemed	dy				Response			Response Status W			
Adopt darsha	an_01_0517.	pdf			ACCE	PT.					
Response		Response Status C			C/ 145	SC 145	.6.1	P 238	L 19	#	239
ACCEPT IN F	PRINCIPLE.				Walker, Dy	lan		Cisco			
OBE by 77					Comment	Гуре Т	R	Comment Status A			Pres: Walker
### ### ### Comment 77 ACCEPT.	has the follo	wing response:				the optio		her references to safety sta form to IEC 62368-1, but it			
Suggested re					(D2.3 T	ODO - Co	mment	#332)			
Adopt darsha	an_01_0517.	pat			_ Suggested	Remedy					
C/ 145 SC	145.5.3.7.5	P 234	L 51	# 80	See "V	/alker_1_0)517_re	v_4.pdf"			
Darshan, Yair		Mirosemi			Response			Response Status C			
Comment Type	т	Comment Status D		DL	L ACCEI	PT IN PRI	NCIPLE				
The changes darshan_03_		of figure 145-46 was not im ′F.pdf	plemented per		OBE b	y 240					
SuggestedRemed	dy				### ##	# ###					
		-46-Dual-signature PD pow ignature PD power control						llowing response:			
Proposed Respor	nse	Response Status Z			ACCE	PT IN PRI	NCIPLE				
REJECT.					adopt \	Valker_1	0517 re	av 4 ndf			
REJECT.						rancor_r_	0017_10	sv_+.pu			

Pa **238** Li **19**

	5			C/ 145 Walker, Dy	SC 145.7. /lan		P 262 Cisco	L 19	# 246
Comment Type ER Comment Status Remove the Editor's Note warning us not to		PICS.	Editorial	Comment ⁻ PICS E			ent Status A include the optio	n for IEC 62368-	Pres: Walker1 1 conformance.
SuggestedRemedy Per comment. Response Response Status ACCEPT.	w			Suggested	ΓΟDΟ - Comr <i>Remedy</i> Valker_1_051	7_rev_4.pdf"	se Status C		
Cl 145 SC 145.7.3.3 P 25 Beia, Christian ST Mid Comment Type T Comment Status In Item PD69 is used a definition of PDs ass	A A	# <u>38</u> s to PDs request	<i>PICS</i> t Class	-					
SuggestedRemedy Change: "Pair-to-pair unbalance for single- signature PDs assigned				ACCEI	ent 240 has t PT IN PRINC Walker_1_05		esponse:		
Class 5 or higher" To: "Pair-to-pair unbalance for single- signature PDs required Class 5 or higher"				C/ 145 Walker, Dy Comment	Type TR	Comme	P 262 Cisco ent Status A	L 38	# 247 Pres: Walker1
Response Response Status ACCEPT IN PRINCIPLE. Why is this dependent on class at all? The s		ot.		accord	ance with IEC FODO - Comr	62368-1.			Source Class 2 in
Change: "Pair-to-pair unbalance for single- signature PDs assigned Class 5 or higher"				Response	Valker_1_051 PT IN PRINC	Respons	se Status C		
To: "Pair-to-pair unbalance for single- signature PDs"				OBE b ### ##					
				ACCEI	ent 240 has t PT IN PRINC Walker_1_05	he following re IPLE.	esponse:		

Pa **262** Li **38**

C/ 145A SC 145A	P 265	L1	# 289	C/ 145 SC 14	15 & 2	P 265	L 27	# 181
Yseboodt, Lennart	Philips	- 1	" 200	Thompson, Geoff		GraCaSI S.A.		
Comment Type E TODO Lennart: introdu I can't believe I agreed SuggestedRemedy Adopt yseboodt_03_05 Proposed Response REJECT. This comment was WI C/ 145 SC 145.A.2 Thompson, Geoff Comment Type ER	Comment Type ER Comment Status A Chan Current text in P802.3bt/D2.4: Operation using 4-pair requires the specification of resistance unbalance between each two pairs of the channel, not greater than 100 mO or resistance unbalance of 7 % whichever is a greater unbalance. Resistance unbalance between the channel pairs is a measure of the difference of resistance of the common mode pairs of conductors used for power delivery. Channel pair-to-pair resistance unbalance is defined by Equation (145A-2): SuggestedRemedy Proposed text for P802.3bt/D2.5: Operation using 4-pair requires the specification of resistance unbalance between each two pairs of the link section, not greater than 100 mO or resistance unbalance of 7 % whichever is a greater unbalance. Resistance unbalance between the link section pairs is a measure of the difference of resistance unbalance unbalance between each two pairs of the link section, not greater than 100 mO or resistance unbalance of 7 % whichever is a greater unbalance. Resistance unbalance between the link section pairs is a measure of the difference of resistance unbalance unbalance between the link section pairs is a measure of the difference of resistance of the common mode pairs of conductors used for power delivery. Link section pair-to-pair resistance unbalance is defined by Equation (145A-2):							
pair operation SuggestedRemedy	ot/D2.4: Pair-to-pair channel r 2.3bt/D2.5: Pair-to-pair link se operation		·	ACCEPT IN PR REF 204 C/ 145 SC 14 Thompson, Geoff	-	P 265 GraCaSI S.A.	L 36	# 182
Response ACCEPT IN PRINCIPL REF 204	Response Status W.E.			Comment Type Current text in F Equation (145A SuggestedRemedy	P802.3bt/D2.4: -3): or P802.3bt/D2.	<i>ment Status</i> A Channel pair-to-pair r	esistance differ	Channe ence is defined by e difference is defined
				Response ACCEPT IN PR REF 204		onse Status W		

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C/ 145 SC 145.A.2 P 265 L 42 # 183 Thompson, Geoff GraCaSI S.A. GraCaSI S.S.	C/ 145 SC 145.A.2 P 266 L 2 # 186 Thompson, Geoff GraCaSI S.A. <
Comment Type ER Comment Status A Channel Current text in P802.3bt/D2.4: is the sum of channel pair components with the highest common mode resistance	Comment Type ER Comment Status A Pres: Darshan14 Current text in P802.3bt/D2.4: Channel and Rch SuggestedRemedy
SuggestedRemedy Proposed text for P802.3bt/D2.5: is the sum of link section pair components with the highest common mode resistance Response Response Status ACCEPT IN PRINCIPLE. REF 204	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. Response Response Status C ACCEPT IN PRINCIPLE. Change Channel to Link Section. Change alignment of both PI s so that conductors stop at the PI not through.
Cl 145 SC 145.A.2 P 265 L 44 # 184 Thompson, Geoff GraCaSI S.A. Image: Compare the second sec	Cl 145A SC 145A.3 P 266 L 23 # 81 Darshan, Yair Mirosemi
Comment Type ER Comment Status A Channel Current text in P802.3bt/D2.4: is the sum of channel pair components with the lowest common mode resistance SuggestedRemedy Proposed text for P802.3bt/D2.5: is the sum of link section pair components with the lowest common mode resistance Response Response Status W ACCEPT IN PRINCIPLE. V	Comment Type ER Comment Status A Annex 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, Equation 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. 3.
REF 204 Cl 145 SC 145.A.2 P 265 L 47 # 185 Thompson, Geoff GraCaSI S.A. GraCaSI S.A. Comment Type ER Comment Status A Channel Current text in P802.3bt/D2.4: Channel common mode resistance is the resistance of the two conductors (including connectors) in a pair, connected in parallel. (Note that this is precisely INCORRECT according to the definitions in cabling standards.)	SuggestedRemedy Change from "Current unbalance requirements (RPSE_min, RPSE_max and ICon-2P-unb) of a PSE is met with Rload_max and Rload_min as specified in Table 145-17." To "Current unbalance requirements (RPSE_min, RPSE_max, and ICon-2P-unb) of a PSE are met with Rload_max and Rload_min as specified in Equation 145-16, Equation 145-17, and Table 145-17." Response Response Status C ACCEPT IN PRINCIPLE.
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. Response Response Status ACCEPT IN PRINCIPLE.	Change to: "PSE current unbalance requirements need to be met with Rload_max and Rload_min applied as specified in Equation 145-16, Equation 145-17, and Table 145-17."
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

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C/ 145 SC 145.4		L 26	# 187	C/ 145	SC 145.A.3	P 267	L 3	# 188
Thompson, Geoff	GraCaSI S.A.			Thompson,	Geoff	GraCaSI S.A.		
definition in cabling "cabling") SuggestedRemedy	Comment Status A 2.3bt/D2.4:channel (cables and standards. BTW, the proper ter			Suggested	text in P802.3 Remedy	Comment Status A bt/D2.4: Compliant load (PD + 2.3bt/D2.5: Compliant load (Li Response Status W	·	Channe D)
Response	Response Status W			ACCEP	T IN PRINCIP	LE.		
ACCEPT IN PRINC	CIPLE.			REF 20	4			
REF 204	.3 <i>P</i> 266	L 34	# 82	Cl 145 Thompson,	SC 145.A.3 Geoff	Р 267 GraCaSI S.A.	L 10	# 189
Darshan, Yair	.s F 200 Mirosemi	L 34	# 02	Comment T	vpe ER	Comment Status R		Pres: Darshan12
Table 145-17.": Rid 145-17 and Table SuggestedRemedy Change from "Curr of a PSE is met wi To " ICon-2P-unb i	d by Equation (145-15) and Rload bad_max and Rload_min are spec 145-17 and not just Table 145-17 ent unbalance requirements (RPS h Rload_max and Rload_min as s met with Rload_max and Rload , and Table 145-17."	cified in Equatio SE_min, RPSE specified in Tab	n 145-16, Eququation _max and ICon-2P-unb) le 145-17."	diagran end pai that it is points a Suggestedh Propose load at	. (I gather that -to-pair resistat buried in the s indicated in <i>Remedy</i> ed text for P80 he PSE PI an	2.3bt/D2.5: Just provide a diag d a table of values for the test	sure) [´] 3) The r s not defined as is a 3rd party c gram of a test n	ight end of the "End to s the PD PI, I assume levice without test etwork to be used as a
Response	Response Status C			Response	to perform the	Response Status U		
ACCEPT IN PRING	-			REJEC	Г.	Response Status U		
	strates the relationship between e d by Equation (145-15) and Rload			Out of s	cope.			
PSE PI as specifie	strates the relationship between e d by Equation (145-15) and Rload equation 145-17, and Table 145-1	d_min and Rloa						

Pa **267** Li **10**

Cl 145A SC 145A.3.2 P 267 L 26 # 41 Bennett, Ken Sifos Technologies, In Sifos Technologies, In Image: Sifos Technologies, In<	C/ 145A SC 145A.3.2 P 267 L 27 # 83 Darshan, Yair Mirosemi			
Comment Type T Comment Status A Pres: Bennet1 This addresses the TODO for draft 2.3, #130,#151. The Effective resistance RPSE measurement in Annex 145A.3.2 was evaluated. SuggestedRemedy SuggestedRemedy See bennett_01_0517.pdf Response Response Status C ACCEPT IN PRINCIPLE. Adopt Bennett_01_0517.pdf pages 10-12. Editor to replace lines 30-34 on page 10 of the pdf with: A method to determine whether RPSE_max and RPSE_min conform to Equation (145-15) is defined in 145A.3.1. Editor given license to rewrite sentence on page 10 line 36 to remove the use of 'should'. This comment resolves comment: 83 83	Comment Type TR Comment Status A TODO#151, #130 We need to verify by simulations that 145A.3.2 test model is working. SuggestedRemedy It is KEN TODO. If not implemented yet, keep in TODO. Response Response Status W ACCEPT IN PRINCIPLE. OBE by 41 ### ### Comment 41 has the following response: ACCEPT IN PRINCIPLE. Adopt Bennett_01_0517.pdf pages 10-12. Editor to replace lines 30-34 on page 10 of the pdf with: A method to determine whether RPSE_max and RPSE_min conform to Equation (145-15) is defined in 145A.3.1.			
	Editor given license to rewrite sentence on page 10 line 36 to remove the use of 'should'. Cl 145A SC 145A.4 P 268 L 16 # B4 Darshan, Yair Mirosemi Comment Type ER Comment Status D Editorial The title of subclause 145A.4 was not implemented per the baseline darshan_01_0317Rev008. Editorial SuggestedRemedy Change from "145A.4 PD resistance and current unbalance" To "145A.4 PD PI resistance and current unbalance" Proposed Response Response Status Z			
	REJECT. This comment was WITHDRAWN by the commenter.			

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C/ 33C Stewart, He	SC 33C.1.2 eath	P 2 Analo	71 og Devices	L 18	# 15	7
Comment 7	Type ER	Comment Status	D			Annex
The term "quasi-simultaneous" has been introduced. This is a very odd term and should be abolished. What was meant here?						
SuggestedRemedy						
Remove quasi and figure out why this label is here.						
Proposed F REJEC		Response Status	Z			

This comment was WITHDRAWN by the commenter.

Pa **271** Li **18**