C/ 33 SC 33 P L # 112	C/ 145A SC 145A.5 P L # 131
Darshan, Yair Mirosemi	Darshan, Yair Mirosemi
Comment TypeTRComment StatusRMaintenanceClause 33, Figure 33-14 in IEEE802.3-2012: the upper and lower bound templates for Type1 and Type 2 at POWER_ON state. Short circuit conditions can not start below the lowerbound template and below ILIM_min up to TLIM. Currently the area between Ipeak to ILIMis marked short circuit. This is incorrect. Short circuit region starts at the lowerboundtemplate. Up to TLIM_min, it starts at ILIM_min and above it. It is legacy error. SeeIEEE802.3-2012: "33.2.7.7 Output current-at short circuit condition.A PSE may remove power from the PI if the PI current meets or exceeds the "PSElowerbound template" in Figure 33-14. Power shall be removed from the PI of a PSEbefore the PI current exceeds the "PSE upperbound template" in Figure 33-14." This isclear definition for where is the short circuit region.	Comment Type TR Comment Status A Pres: Darsha Annex 145A.5 is missing (used to be Annex 33A.5). Lennart comment for #111 D2.3 that is not clear what to delete so he delete it all We need to Implement darshan_05_0117Rev005.pdf as approved by using the clean version of it in darshan_01_0317.pdf. SuggestedRemedy Implement darshan_01_0317.pdf. Response Response Status C ACCEPT IN PRINCIPLE. C
uggestedRemedy This is legacy error. We could file maintenance request or just fix it as follows: Remove the marking "short circuit" and the brown color from the current position.	OBE by 111 ### ###
Response Response Status W REJECT.	Comment 111 has the following response: ACCEPT IN PRINCIPLE.
This is not in our draft.	adopt darshan_01_0317Rev008.pdf
If you want to file a maintenance request, please do so.	C/ 00 SC 0 P 0 L 0 # 269
C/ 30 SC 30 P L # 122	Thompson, Geoff GraCaSI S.A.
Mirosemi Comment Type TR Comment Status A Pres: Darshan3 D2.3 DONE Comment #78 from D2.2 was meant to add all new parameters related to all new TLVs (Autoclass, Measurements and dual-signature). Not all single-signature and dual-signature	Comment Type ER Comment Status A Definition There are 59 occurances of the term "channel" in the draft. Most of them would more properly be described by the term "link section". SuggestedRemedy Change the term "channel" to the proper term for the pluggable portion of the media, i.e. Comment Status
signature parameters.	"link section".
SuggestedRemedy 1. See darshan_03_0317.pdf 2. Add to Mr. Law TODO list verify that all DLL variables in clause 30, 79 and 145.5 are in sync and complete.	Response Response Status C ACCEPT IN PRINCIPLE.
Response Response Status C ACCEPT IN PRINCIPLE.	Add to TDL (Geoff T.): Create list of "channel" instances to be changed to "link section". Include any places channel is referenced, i.e. Rch, Rchan, etc.
adopt darshan_03_0317Rev007F.pdf with editorial license to clean up.	This comment resolves comment: 270
This comment resolves comments: 55, 56, 57, 63, 70, 71, 104, 105, 106, 117, 118, 119,	

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 **0** Li **0** Page 1 of 103 3/16/2017 10:31:46 AM

C/ FM SC FM Yseboodt, Lennart	P 1 Philips	L 1	# 408		C/ FM SC FM Anslow, Pete	P 2 Ciena		# 66
Comment Type ER				FM	Comment Type E	Comment Status		Editoria
As you may have n Note: I have intenti	noticed I have titled our new Clau ionally labelled this comment "FN bugh it really is a page 87.				51	s" should be "Deletions a		Lanona
SuggestedRemedy	5 7 7 6				-	s and ions" to "Deletions a		
TF to confirm they	are happy with the title by accep	ting this comm	ent.		Response	Response Status	С	
Response	Response Status C				ACCEPT.			
ACCEPT IN PRINC	CIPLE.				C/ 1 SC 1.4	P 2	2 L 22	# 239
The title is good. N	No changes to draft.				Stover, David	Linea	r Tech Corp	
C/ FM SC FM	P 1 Philips	L 1	# 409		Comment Type ER dual-signature PD	Comment Status refers to Clause 33, shou		Editoria
Comment Type E	Comment Status A			FM	SuggestedRemedy			
	02.3bt amendment is:					E Std 802.3, Clause 33" v		.3, Clause 145"
"Draft Standard for DTE Power via MD	Ethernet Amendment: Physical Nover 4-Pair"	Layer and Man	agement Paramete	ers for	Response ACCEPT.	Response Status	W	
SuggestedRemedy					C/ 1 SC 1.4	P 2	2 L 22	# 310
	outcome of the previous comment Ethernet Amendment: Power ov				Wendt, Matthias		s Lighting	
Response ACCEPT IN PRINC	Response Status C CIPLE.					Comment Status EIEEE 802.3, Clause 33). red to and should be 145	n	Editoria.
Change this to: "Draft Standard for	Ethernet Amendment: Power ov	ver Ethernet over	er 4 Pairs".		SuggestedRemedy			
C/ FM SC FM Wendt, Matthias	P 12 Philips Lightir	L 22 ng	# 410		Update as approp - 1.4.186a - 1.4.236a (referer - 1.4.381aa			
Comment Type ER	Comment Status A			FM	- 1.4.418aa, ab, ad	c, and ad		
original text: "This a Clause 33." No it doesn`t.	amendment includes changes to	IEEE Std 802.	3-2015 and replace	es	Response ACCEPT.	Response Status	С	
SuggestedRemedy								
Replace by: This amendm Annex 145A, and A	ent includes changes to IEEE St Annex 145B.	td 802.3-2015 a	nd adds Clause 14	15,				
Response ACCEPT.	Response Status W							
	quired ER/editorial required GR D/dispatched A/accepted R/reje Line					ied Z/withdrawn	Pa 22 Li 22	Page 2 of 103 3/16/2017 10:3

3/16/2017 10:31:46 AM

C/ 1 SC 1.4	P 22	L 27	# 240	C/ 1 SC 1.4	P 23	L 10	# 242
Stover, David	Linear Tech C	orp		Stover, David	Linear Tech	Corp	
Comment Type ER IEEE 802.3 Power o clauses 33 and 145.	Comment Status A ever Ethernet (IEEE 802.3 PoE)	refers to Clause	<i>Editorial</i> 33, should refer to	31	Comment Status A PD refer to Clause 33, should	refer to clause 14	Editoria 5.
SuggestedRemedy				SuggestedRemedy	Std 200 2 Clauge 22" with "S		2. Clause 145"
	Std 802.3, Clause 33" with "See	e IEEE Std 802.	3, Clause 33 and	Response	Std 802.3, Clause 33" with "Se Response Status W	ee IEEE Sta 802.	3, Clause 145
Response	Response Status W			ACCEPT.			
ACCEPT.				C/ 1 SC 1.4.41 Darshan, Yair	8aa P 23 Mirosemi	L 12	# 142
C/ 1 SC 1.4.254 Thompson, Geoff	4 P 22 GraCaSI S.A.	L 32	# 271	Comment Type E	Comment Status A		Editoria
There are issues her	re if there is going to be more th	on one link coe	tion in a system of a	classification, implei		n hath Madaa aim	
one mid-span and or SuggestedRemedy Discuss in TF			ion in a system, e.g.	802.3, Clause 33)". The cla SuggestedRemedy	sification, and accepts power of ause is 145 and not 33.	n both modes sin	
one mid-span and or SuggestedRemedy Discuss in TF Response ACCEPT IN PRINCI	ne end span. <i>Response Status</i> C PLE.			802.3, Clause 33)". The cla	ause is 145 and not 33.	n doin modes sin	
one mid-span and or SuggestedRemedy Discuss in TF Response ACCEPT IN PRINCI	ne end span. <i>Response Status</i> C PLE. : Fix connection check, definitio <i>P</i> 22	ns, etc. for end: <i>L</i> 41		802.3, Clause 33)". The cla SuggestedRemedy Change from clause Response	ause is 145 and not 33. e 33 to clause 145 <i>Response Status</i> C	L 15	# 143
one mid-span and or SuggestedRemedy Discuss in TF Response ACCEPT IN PRINCI TDL (Dylan, Stover): Cl 1 SC 1.4 Stover, David Comment Type ER	ne end span. <i>Response Status</i> C PLE. : Fix connection check, definitio	ons, etc. for end: <i>L</i> 41 Corp	span/midspan conflicts. # 241 Editorial	802.3, Clause 33)". The cla SuggestedRemedy Change from clause Response ACCEPT. Cl 1 SC 1.4.41 Darshan, Yair Comment Type E In the text: "1.4.418a	ause is 145 and not 33. ause is 145 and not 33. ause 33 to clause 145 <i>Response Status</i> C 8ab <i>P</i> 23 Mirosemi <i>Comment Status</i> A ab Type 3 PSE: A PSE that su and may support 4-pair powe	L 15	# <u>143</u> <i>Editoria</i> s 6 power levels,
one mid-span and or SuggestedRemedy Discuss in TF Response ACCEPT IN PRINCI TDL (Dylan, Stover): Cl 1 SC 1.4 Stover, David Comment Type ER single-signature PD SuggestedRemedy	ne end span. <i>Response Status</i> C PLE. Fix connection check, definition <i>P</i> 22 Linear Tech C <i>Comment Status</i> A	ins, etc. for end: <i>L</i> 41 Forp r to clause 145.	span/midspan conflicts. # 241 Editorial	802.3, Clause 33)". The cla SuggestedRemedy Change from clause Response ACCEPT. Cl 1 SC 1.4.41 Darshan, Yair Comment Type E In the text: "1.4.418a supports short MPS	ause is 145 and not 33. ause is 145 and not 33. ause 33 to clause 145 <i>Response Status</i> C 8ab <i>P</i> 23 Mirosemi <i>Comment Status</i> A ab Type 3 PSE: A PSE that su and may support 4-pair powe	L 15	# <u>143</u> <i>Editoria</i> s 6 power levels,
one mid-span and or SuggestedRemedy Discuss in TF Response ACCEPT IN PRINCI TDL (Dylan, Stover): Cl 1 SC 1.4 Stover, David Comment Type ER single-signature PD SuggestedRemedy	ne end span. <i>Response Status</i> C PLE. : Fix connection check, definitio <i>P</i> 22 Linear Tech C <i>Comment Status</i> A refers to Clause 33, should refe	ins, etc. for end: <i>L</i> 41 Forp r to clause 145.	span/midspan conflicts. # 241 Editorial	802.3, Clause 33)". The cla SuggestedRemedy Change from clause Response ACCEPT. Cl 1 SC 1.4.41 Darshan, Yair Comment Type E In the text: "1.4.418 supports short MPS clause is 145 and no	ause is 145 and not 33. ause is 145 and not 33. ause is 145 <i>Response Status</i> C 8ab <i>P</i> 23 Mirosemi <i>Comment Status</i> A ab Type 3 PSE: A PSE that su ab Type 3 PSE: A PSE that su ab Type 3 and may support 4-pair power ot 33.	L 15	# <u>143</u> <i>Editoria</i> s 6 power levels,

Pa **23** Li **15**

C/ 1 SC 1.4.418ad Darshan, Yair	e P 23 Mirosemi	L 19	#	144	<i>Cl</i> 25 Stover, Da	SC 25. wid	4.5	P 25 Linear Tech (L 11 Corp	# 243
Comment Type E	Comment Status A			Editorial	Comment	Туре Е	R C	omment Status A		Editoria
classification, impleme					Refere 33 and		ype 2 or gre	eater" PSE and PD refe	rs to Clause 33,	should refer to clauses
Multiple-Event classific power on both	ation, is capable of Data Link	Layer classific	ation, and	accepts	Suggested	Remedy				
•	(See IEEE 802.3, Clause 33)).". The clause	is 145 and	not 33.	Replac	ce "See Cl	ause 33" wi	ith "See Clause 33 and	Clause 145"	
SuggestedRemedy					Response		Re	esponse Status W		
Change from clause 33	to clause 145				ACCE	PT.				
Response ACCEPT.	Response Status C				C/ 30 Darshan, Y	SC 30 Yair		P 27 Mirosemi	<i>L</i> 1	# 126
C/ 1 SC 1.4.418ad	P 23	L 22	#	145	Comment			comment Status A		Pres: Darshan
Darshan, Yair	Mirosemi						to be updat	ed with dual-signature r	elated paramete	ers
Comment Type E	Comment Status A			Editorial	Suggested	Remedy				
	E: A PSE that supports up to	Class 8 power	levels, sho	ort MPS, and	See da	arshan_03	_0317.pdf			
4-pair power. (See IEEE 802.3, Clause 33)". The clause is 145 and not	33.			Response		Re	esponse Status C		
SuggestedRemedy					ACCE	PT IN PRI	NCIPLE.			
Change from clause 33	to clause 145				OBE b	oy 122				
Response	Response Status C									
ACCEPT.	,				### #1	## ###				
C/ 1 SC 1.4	P 23	L 25	#	311		nent 122 ha PT IN PRI		ving response:		
Wendt, Matthias	Philips Lightin	g			adopt	darshan_C	3_0317Rev	/007F.pdf with editorial	license to clean	up.
Comment Type ER	Comment Status R	4.405)		Maintenance	C/ 30	SC 30.	25	P 27	L 48	# 67
"Remove the definition	s for I Port (1.4.234), V PD (1	.4.425), and V	PSE (1.4.4	126)."	Anslow, Pe		2.0	Ciena	- +0	" 01
	eeded to not break Clause 33	3.			Comment		C C	comment Status A		Managemer
Clause 145 has a local	definition.								bject class" fror	n Table 30-4." does not
SuggestedRemedy	- dition in struction							Basic Package (manda		
Remove the "remove"	-				Suggested	Remedy				
Response REJECT.	Response Status C					·	0	on to "Delete the "oPD i sic Package (mandator	• •	
We did this as a result	of Geoff Thompson's comme	nts to remove t	those defin	itions and	Response		Re	esponse Status C		
	33. These were maintenance				ACCE	PT.				

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn Li 48 3/16/2017 10:31:46 AM SORT ORDER: Page, Line

C/ 30 Anslow, Pe	SC 30.2.5 te	P 28 Ciena	<i>L</i> 1	# 68	C/ 30 Anslow, Pete	SC 30.2.5	P 28 Ciena	L 30	# 70
Comment 1		Comment Status A		Management	Comment Ty		Comment Status A		Pres: Darshan3
		n "Insert new rows into Table where the new rows should		ated object classes as			ot3LocPDRequestedPowerVa questedPowerValueModeB" a		
		have been added to the table he base version of Table 30-		e same as the order of	SuggestedR	emedy			
the rela	ted subclauses						stance with "aLldpXdot3LocP SEAllocatedPowerValueAltern		erValueAlternativeA"
uggestedi	Remedy				Response		Response Status C		
		struction to define where the lescribe the added columns	new rows are pla	ced relative to the		IN PRINCIP	LE.		
or:	a complete to	his as modified and show the		lumpa in undarlina fant	OBE by	122			
esponse	le complete ta	ble as modified and show the Response Status C	e new rows an co	numns in undenine ioni.	### ###	###			
•	PT IN PRINCIP					t 122 has the IN PRINCIP	following response: LE.		
	•	e of the two suggested reme	`	,	adopt da	rshan_03_03	17Rev007F.pdf with editorial li	icense to clean u	р.
2/ 30 Inslow, Pe	SC 30.2.5	P 28 Ciena	L 26	# 69	C/ 30	SC 30.2.5	P 29	L 36	# 71
-		Comment Status A		Editorial	Anslow, Pete	•	Ciena		
Comment 7		cross-reference		Eulional	Comment Ty	pe E	Comment Status A		Pres: Darshan3
uggested						e is missing ro			
•••	30.12.2" a cros	ss-reference					questedPowerValueModeA questedPowerValueModeB		
esponse		Response Status C			aLldpXd	ot3RemPSEA	IlocatedPowerValueAlternative		
ACCEF	ΡT.				•		llocatedPowerValueAlternative	eB	
					SuggestedR Add the	2			
						lows			
					Response	IN PRINCIP	Response Status C		
						-			
					OBE by ### ###				
					### ###	###			
						t 122 has the IN PRINCIP	following response: LE.		
					adopt da	rshan_03_03	17Rev007F.pdf with editorial li	icense to clean up	Э.
YPE: TR/t	echnical requir	red ER/editorial required GF	/general require	d T/technical E/editorial G	/general		Pa 29)	Page 5 of 103
		ispatched A/accepted R/rej				J/unsatisfied			3/16/2017 10:3 ²

SORT ORDER: Page, Line

C/ 30 SC 30.9.1.1.3 Anslow, Pete	P 31	L 38	# 42	C/ 30 SC 30.9.1 . Anslow, Pete	1.5 <i>P</i> 32 Ciena	L 30	# 45
Comment Type E In "(see 33.2.4 and 145. "33.2.4" should be "33.2 Same issue in 30.9.1.1. SuggestedRemedy Change "33.2.4" to "33.2	2.3" and "and 145.2.4" should 4 2.3" and underline "and 145.		Editorial	Comment Type E "Figure 33-13" should SuggestedRemedy Change "Figure 33-1 Response	Clena Comment Status A d be "Figure 33-9" and it should 3" to "Figure 33-9" and remove Response Status C		<i>Editoria</i> ed.
Make the same changes Response ACCEPT.	Response Status C			ACCEPT. <i>C</i> / 30 SC 30.9.1 . Anslow, Pete	1.5 P 32 Ciena	L 37	# 46
"aSectionSESThreshold	<i>P</i> 32 Ciena <i>Comment Status</i> A led.lf" olAbility" is shown as being rem line 12 in strikethrough) "33	loved.		Comment Type E There is already a ";" line 37. SuggestedRemedy Delete the ";" on line Response ACCEPT.	Comment Status A at the end of the NOTE on line 37 Response Status C	e 41, so there is	<i>Editoria</i> no need to add one on
Change to "enabled .lf" Show "aSectionSESThr	eshold" in strikethrough font line 12 in strikethrough) cha		" to "33.5.1.1.4"	C/ 30 SC 30.9.1. Anslow, Pete	1.6 P 33 Ciena	L 4	# 47
Response ACCEPT.	Response Status C				Comment Status A "33.2.6.1" and it should not be	underlined.	Editorial
C/ 30 SC 30.9.1.1.5	P 32	L 27	# 44	SuggestedRemedy Change "33.2.7.1" to	"33.2.6.1" and remove the und	derline.	
Anslow, Pete <i>Comment Type</i> E In "33.2.6 and 145.2.6" "33.2.6" should be "33.2	Ciena Comment Status A 2.5" and "and 145.2.6" should	d be underlined	Editorial	Response ACCEPT.	Response Status C		
SuggestedRemedy Change "33.2.6" to "33.2	2.5" and underline "and 145.	.2.6".					
-							

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 **33** Li **4**

C/ 30 SC 30.9.1.1.7 P 33 L 19 # 48	C/ 30 SC 30.9.1.1.9 P 33 L 36 # 398
Anslow, Pete Ciena	Yseboodt, Lennart Philips
Comment Type E Comment Status A E	rial Comment Type T Comment Status A Managemen
"Figure 33-13" should be "Figure 33-9" and it should not be underlined. Same issue in 30.9.1.1.8, 30.9.1.1.9, 30.9.1.1.10, and 30.9.1.1.11	aPSEOverLoadCounter: This counter is incremented when the PSE state diagram (Figure 33-13) enters the state ERROR_DELAY_OVER.
SuggestedRemedy	We`re still fixing problems inherited from 802.3at. This state doesn`t exist in 802.3at PSE
Change "Figure 33-13" to "Figure 33-9" and remove the underline. Make the same changes in 30.9.1.1.8, 30.9.1.1.9, 30.9.1.1.10, and 30.9.1.1.11	state diagram, but did exist in 802.3af. The .at project forgot to update Clause 30 for this one.
Response Response Status C	SuggestedRemedy
ACCEPT.	Since the distinction between SHORT and OVERLOAD cannot be made by the current
C/ 30 SC 33.9.1.1.7 P 33 L 20 # 397	state diagrams, propose to: - Change text of 30.9.1.1.9 aPSEOverLoadCounter to read:
Yseboodt, Lennart Philips	"This counter is incremented when the PSE state diagram (Figure 33-13, Figure 145-13,
Comment Type T Comment Status A Manag	Figure 145-15, and 145-16) enters the state ERROR_DELAY, ERROR_DELAY_PRI, or ent ERROR_DELAY_SEC."
aPSEInvalidSignatureCounter: This counter is incremented when the PSE state diagra (Figure 33-13) enters the state SIGNATURE INVALID.	- Delete 30.9.1.1.10 aPSEShortCounter
The new state diagram does not support this as it doesn't have this state.	Response Response Status C
SuggestedRemedy	ACCEPT IN PRINCIPLE.
Option 1: Change text to read: "This counter is incremented when the Type 1 and Type 2 PSE state diagram (Figure 13) enters the state SIGNATURE_INVALID. This counter is not defined for Type 3 and Type 4 PSEs".	 Change text of 30.9.1.1.9 aPSEOverLoadCounter to read: "This counter is incremented when the PSE state diagram (Figure 145-13, Figure 145-15, and 145-16) enters the state ERROR_DELAY, ERROR_DELAY_PRI, or ERROR_DELAY_SEC." Delete 30.9.1.1.10 aPSEShortCounter
Option 2: It gets complicated to handle all the edge cases where one might encounter invalid detection. Add TDL for someone who cares to pick this up.	Figure 33-13 can't be included as it needs to be entered as a maintenance request.
Response Response Status C	C/ 30 SC 30.12.2.1.8 P 38 L 1 # 49
ACCEPT IN PRINCIPLE.	Anslow, Pete Ciena
Implement suggested remedy, option 1.	Comment Type E Comment Status A Editoria In the editing instruction, "through 30.12.2.1.107" should be "through 30.12.2.1.10"
	SuggestedRemedy
	Change "through 30.12.2.1.107" to "through 30.12.2.1.10"
	Response Response Status C

Pa **38** Li **1**

C/ 30 SC 30.12.2.1.8 P 38 L 1 Anslow, Pete Ciena	14 # 50	C/ 30 SC 30.12.2.1.1 Darshan, Yair	L P 39 L 16 # 109 Mirosemi	
Comment Type E Comment Status A "(see 33.2.4" should be "(see 33.2.3" Same issue in 30.12.2.1.9 SuggestedRemedy Change "(see 33.2.4" to "(see 33.2.3" Make the same change in 30.12.2.1.9	Ed	indicating whether the loc The first bit indicates Typ indicated for Type 3 and provides an indication of PSE shall set this bit to ir	cPowerType definition "A GET attribute that returns a bit al system is a PSE or a PD and whether it is Type 1 or Ty e 1 or Type 2. Type 2 will also be Type 4. The attribute aLldpXdot3LocPowerTypex, if suppo Type 1 through Type 4. The second bit indicates PSE or P dicate a PSE. A PD shall set this bit to indicate a PD.;"	rpe 2. orted, PD. A
Response Response Status C ACCEPT.	36 # 51	defined in aLldpXdot3Lo -It is not clear if the rest o supported, provides an in	f the text after "The attribute aLldpXdot3LocPowerTypex, dication of Type 1 through Type 4." relates to	
Anslow, Pete Ciena	30 # 51		e or to aLldpXdot3LocPowerTypex	
•	-	SuggestedRemedy		
Comment Type E Comment Status A "." missing at the end of the text before ";"	E	brial Remove the text "The att indication of Type 1 throu	ibute aLldpXdot3LocPowerTypex, if supported, provides a gh Type 4."	an
SuggestedRemedy		Response	Response Status C	
•• •				
Add "." at the end of the text before ";" <i>Response Response Status</i> C		ACCEPT IN PRINCIPLE.	owerType definition to "A GET attribute that returns a bit s	trina
Response Response Status C ACCEPT. Cl 30 SC 30.12.2.1.10 P 38 L 5	53 # <u>52</u>	Change aLldpXdot3LocP indicating whether the loc than Type 1. The first bit	owerType definition to "A GET attribute that returns a bit s al system is a PSE or a PD and whether it is Type 1 or gr ndicates Type 1 or greater than Type 1. The second bit in set this bit to indicate a PSE. A PD shall set this bit to indic LocPowerTypex.;"	eater dicates
Response Response Status C ACCEPT. C/ 30 SC 30.12.2.1.10 P 38 L 5 Anslow, Pete Ciena Ciena Ciena		Change aLldpXdot3LocP indicating whether the loc than Type 1. The first bit PSE or PD. A PSE shall PD. See also aLldpXdot3	al system is a PSE or a PD and whether it is Type 1 or grundicates Type 1 or greater than Type 1. The second bit in set this bit to indicate a PSE. A PD shall set this bit to indicate a CPOwerTypex.;"	eater dicates
Response Response Status C ACCEPT. Cl 30 SC 30.12.2.1.10 P 38 L 5 Anslow, Pete Ciena Ciena Ciena		Change aLldpXdot3LocP indicating whether the loc than Type 1. The first bit PSE or PD. A PSE shall PD. See also aLldpXdot3	al system is a PSE or a PD and whether it is Type 1 or grundicates Type 1 or greater than Type 1. The second bit in set this bit to indicate a PSE. A PD shall set this bit to indicate a CPOwerTypex.;"	eater dicates
Response Response Status C ACCEPT. Cl 30 SC 30.12.2.1.10 P 38 L 5 Anslow, Pete Ciena Comment Type E Comment Status A "in 33.2.7" should be "in 33.2.6"		Change aLldpXdot3LocP indicating whether the loc than Type 1. The first bit PSE or PD. A PSE shall PD. See also aLldpXdot3	al system is a PSE or a PD and whether it is Type 1 or grundicates Type 1 or greater than Type 1. The second bit in set this bit to indicate a PSE. A PD shall set this bit to indicate a PSE. A PD shall set this bit to indicate a PSE. B P40 L 19 # 53	eater dicates
Response Response Status C ACCEPT. Cl 30 SC 30.12.2.1.10 P 38 L 5 Anslow, Pete Ciena Comment Type E Comment Status A "in 33.2.7" should be "in 33.2.6" SuggestedRemedy Change "in 33.2.7" to "in 33.2.6"		Change aLldpXdot3LocP indicating whether the loc than Type 1. The first bit PSE or PD. A PSE shall PD. See also aLldpXdot3 Orial C/ 30 SC 30.12.2.1.1 Anslow, Pete Comment Type E The text "For a PSE, it is	al system is a PSE or a PD and whether it is Type 1 or groundicates Type 1 or greater than Type 1. The second bit in set this bit to indicate a PSE. A PD shall set the PSE has currently allocated to the power value that the PSE has currently allocated to the PSE has provide the PSE has p	eater dicates cate a Editoria e
Response Response Status C ACCEPT. Cl 30 SC 30.12.2.1.10 P 38 L 5 Cl 30 SC 30.12.2.1.10 P 38 L 5 Anslow, Pete Ciena Ciena Comment Type E Comment Status A "in 33.2.7" should be "in 33.2.6" SuggestedRemedy Change "in 33.2.7" to "in 33.2.6"		Change aLldpXdot3LocP indicating whether the loc than Type 1. The first bit PSE or PD. A PSE shall PD. See also aLldpXdot3 Orial C/ 30 SC 30.12.2.1.1 Anslow, Pete Comment Type E The text "For a PSE, it is remote system." is shown The text "The PSE alloca	al system is a PSE or a PD and whether it is Type 1 or groundicates Type 1 or greater than Type 1. The second bit in set this bit to indicate a PSE. A PD shall set this a P40 to PSE. A PD shall set this a P40 to PSE. A PD shall set the PSE has currently allocated to the in underline font, but it is already present in the base started power value is the maximum input average power that is draw under this allocation if it is accepted." is present in the pseudometer of t	eater dicates cate a <i>Editoria</i> e ndard.
Response Response Status C ACCEPT. Cl 30 SC 30.12.2.1.10 P 38 L 5 Cl 30 SC 30.12.2.1.10 P 38 L 5 Anslow, Pete Ciena Ciena Comment Type E Comment Status A "in 33.2.7" should be "in 33.2.6" SuggestedRemedy Change "in 33.2.7" to "in 33.2.6" Response Response Status C		Change aLldpXdot3LocP indicating whether the loc than Type 1. The first bit PSE or PD. A PSE shall PD. See also aLldpXdot3 Orial C/ 30 SC 30.12.2.1.1 Anslow, Pete Comment Type E The text "For a PSE, it is remote system." is shown The text "The PSE alloca PSE wants the PD to ever	al system is a PSE or a PD and whether it is Type 1 or groundicates Type 1 or greater than Type 1. The second bit in set this bit to indicate a PSE. A PD shall set this a P40 to PSE. A PD shall set this a P40 to PSE. A PD shall set the PSE has currently allocated to the in underline font, but it is already present in the base started power value is the maximum input average power that is draw under this allocation if it is accepted." is present in the pseudometer of t	eater dicates cate a <i>Editoria</i> e ndard.
Response Response Status C ACCEPT. Cl 30 SC 30.12.2.1.10 P 38 L 5 Cl 30 SC 30.12.2.1.10 P 38 L 5 Anslow, Pete Ciena Ciena Comment Type E Comment Status A "in 33.2.7" should be "in 33.2.6" SuggestedRemedy Change "in 33.2.7" to "in 33.2.6" Response Response Status C		Change aLldpXdot3LocP indicating whether the loc than Type 1. The first bit PSE or PD. A PSE shall PD. See also aLldpXdot3 Orial Cl 30 SC 30.12.2.1.14 Anslow, Pete Comment Type E The text "For a PSE, it is remote system." is shown The text "The PSE alloca PSE wants the PD to even underline font and then a SuggestedRemedy Remove the underline for allocated to the remote system input average	al system is a PSE or a PD and whether it is Type 1 or groundicates Type 1 or greater than Type 1. The second bit in set this bit to indicate a PSE. A PD shall set this a P40 to PSE. A PD shall set this a P40 to PSE. A PD shall set the PSE has currently allocated to the in underline font, but it is already present in the base started power value is the maximum input average power that is draw under this allocation if it is accepted." is present in the pseudometer of t	eater dicates cate a <i>Editoria</i> e ndard. the ently value is his
Response Response Status C ACCEPT. Cl 30 SC 30.12.2.1.10 P 38 L 5 Cl 30 SC 30.12.2.1.10 P 38 L 5 Anslow, Pete Ciena Ciena Comment Type E Comment Status A "in 33.2.7" should be "in 33.2.6" SuggestedRemedy Change "in 33.2.7" to "in 33.2.6" Response Response Status C		Change aLldpXdot3LocP indicating whether the loc than Type 1. The first bit PSE or PD. A PSE shall PD. See also aLldpXdot3 Orial Cl 30 SC 30.12.2.1.1 Anslow, Pete Comment Type E The text "For a PSE, it is remote system." is shown The text "The PSE alloca PSE wants the PD to eve underline font and then a SuggestedRemedy Remove the underline fro allocated to the remote sy the maximum input avera allocation if it is accepted font.	al system is a PSE or a PD and whether it is Type 1 or gro- ndicates Type 1 or greater than Type 1. The second bit in set this bit to indicate a PSE. A PD shall set this bit to indic LocPowerTypex.,"	eater dicates cate a <i>Editoria</i> e ndard. the ently value is his

C/ 30 SC 30.12.2.1.18a P 40 L 29 # 54	C/ 30 SC 30.12.2.1 P 40 L 32 # 399
Anslow, Pete Ciena	Yseboodt, Lennart Philips
Comment Type E Comment Status A Editorial In the editing instruction, "Insert 30.12.2.1.18a through 30.12.2.1.18z after 30.12.3.1.18 as follows:" 30.12.2.1.18z has not been updated to account for the additional subclauses added. "30.12.3.1.18" should be "30.12.2.1.18" Also, the subclause numbering does not follow the rules (particularly 1b) in: http://www.ieee802.org/3/WG_tools/editorial/requirements/words.html#numb SuggestedRemedy SuggestedRemedy Change the editing instruction to "Insert 30.12.2.1.18a through 30.12.2.1.18z12 after 30.12.2.1.18 as follows:" Also, renumber 30.12.2.1.18aa through 30.12.2.1.18al to 30.12.2.1.18z1 through 30.12.2.1.18z12. Response Response Status C ACCEPT. C C	Comment Type ER Comment Status A Pres: Darshan3 COMMENTLABEL: mode_Alt_shared For dual-signature power allocation Clause 30 objects we used the names aLldpXdot3LocPDRequestedPowerValueModeA, aLldpXdot3LocPSEAllocatedPowerValueAlternativeA, an so forth. For PDRequested we used ModeA/ModeB at the end which seems logical. Problem is that these variables are defined both for the PSE and the PD. When used in a PSE context, "Mode" makes no sense and vica versa for the PD. SuggestedRemedy This comment not to be OBE to darshan_03, they are to be implemented together. Remove "Mode" and "Alternative" from Clause 30 object names from 30.12.2.1.18a through .18d and the same in the remote section. Also update naming to reflect this throughout the draft.
	Response Response Status C ACCEPT IN PRINCIPLE. OBE by 122 ### ### ### Comment 122 has the following response: ACCEPT IN PRINCIPLE. adopt darshan_03_0317Rev007F.pdf with editorial license to clean up.

Pa **40** Li **32**

C/ 30 SC 30.12.2.1.18a P 40 Anslow, Pete Ciena	L 39	# 55	C/ 30 Anslow, F	SC 30.12.2	1.18	<i>P</i> 43 Ciena	L 5	# 57
Comment Type E Comment Status A The text ", as defined in Equation (79-1), where aLldpXdot3LocPDRequestedPowerValueModeA is X but this equation is deleted by this draft, so referenci Same issue in 30.12.2.1.18b.	ng it does not	make sense.	or rer Suggeste	other subclauses note device. Ho dRemedy	in this secti wever, 30.1	2.2.1.18l and 30.1	2.3.1.18I have id	
Same issue (with Equation (79-2)) in 30.12.2.1.18c a	and 30.12.2.1.1	l8d.	_	0		Ũ	E to remote Pt	SE" in 30.12.3.1.18l
SuggestedRemedy Delete ", as defined in Equation (79-1), where			Response	; EPT IN PRINCIF	,	se Status C		
aLldpXdot3LocPDRequestedPowerValueModeA is X Delete the equivalent text in 30.12.2.1.18b. Delete the equivalent text (with Equation (79-2)) in 30	,	nd 30.12.2.1.18d.		by 122	LL.			
Response Response Status C			### #	## ###				
ACCEPT IN PRINCIPLE.				ment 122 has the EPT IN PRINCIF		esponse:		
OBE by 122			adopt	t darshan_03_03	17Rev007F	.pdf with editorial	license to clean	up.
### ### ###			C/ 30	SC 30.12.3	1.7	P 48	L 42	# 58
Comment 122 has the following response: ACCEPT IN PRINCIPLE.			Anslow, F	Pete		Ciena		
adopt darshan_03_0317Rev007F.pdf with editorial lie		-			n says "Cha	•	rough 30.12.3.1.	<i>Editori</i> 10 as follows:" but no
C/30 SC 30.12.2.1.18g P 41 Inslow, Pete Ciena	L 54	# 56	Suggeste	-				
Comment Type T Comment Status A		Pres: Darshan3				.7 or change the e	editing instructior	n to ""Change
The three subclauses 30.12.2.1.18g, 30.12.2.1.18h, for APPROPRIATE SYNTAX with no explanation of v SuggestedRemedy		18i have identical text	Response ACCE			se Status C		
Expand the text of the three subclauses to clarify how	w they differ fro	om one another.						
Response Response Status C								
ACCEPT IN PRINCIPLE.								
OBE by 122								
### ### ###								
Comment 122 has the following response: ACCEPT IN PRINCIPLE.								
adopt darshan_03_0317Rev007F.pdf with editorial lie	cense to clean	up.						
YPE: TR/technical required ER/editorial required GR/c	ionoral require	d T/tachnical E/aditorial C/a	nonoral			Pa 4	5	Page 10 of 10

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 **48** Li **42** Page 10 of 103 3/16/2017 10:31:46 AM

C/ 30 SC 30.12 Anslow, Pete	2.3.1.8 P 49 Ciena	L 12	# 59)	C/ 30 Anslow, Pe	SC 30.12.3	.1.10	P 49 Ciena	L 53	# 60
Comment Type E "see 33.2.4" should		A		Editorial	<i>Comment</i> "in 33.	<i>Type</i> E 2.7" should be		ent Status A		Edito
	2.3.1.9 s-reference to 30.9.1.1.4 s s-reference to 30.9.1.1.3 s		-		Suggested Chang	<i>IRemedy</i> je "in 33.2.7" to	"in 33.2.6"			
on line 14 change t	4" to "see 33.2.3" on lines the cross-reference from 2	30.9.1.1.4 to 30.9			Response ACCE		•	se Status C		
	the cross-reference from 3		.1.1.4.		CI 30	SC 30.12.3	.1.17	P 50	L 52	# 123
Response	Response Status	С			Darshan, N			Mirosemi		
ACCEPT.					Comment	51		ent Status A		Edito
C/ 30 SC 30.12 Wendt, Matthias		L 14 Lighting	# 40	00	used b	by the remote s	ystem to cor		alue that is has	d power value that was currently allocated to
Comment Type ER	Comment Status	Α		Editorial	Suggested	lRemedy				
original text: "For a aPSEPowerPairsC	PD this attribute contains ontrolAbility attribute (see	the value of the 30.9.1.1.4) on th	e given port "	Editorial	Chang	e to: "A GET a				alue that was used by located to the PD"
original text: "For a aPSEPowerPairsC aPSEPowerPairsC	PD this attribute contains	the value of the 30.9.1.1.4) on th	e given port "	Editorial	Chang	e to: "A GET a	compute th			
original text: "For a aPSEPowerPairsC aPSEPowerPairsC SuggestedRemedy	PD this attribute contains ontrolAbility attribute (see ontrolAbility is in to 30.9.1	the value of the 30.9.1.1.4) on th .1.3			Chang the rer	le to: "A GET a note system to	compute th	e power value that		
original text: "For a aPSEPowerPairsC aPSEPowerPairsC SuggestedRemedy	PD this attribute contains ontrolAbility attribute (see ontrolAbility is in to 30.9.1 ute contains the value of	the value of the 30.9.1.1.4) on th .1.3			Chang the rer <i>Response</i>	le to: "A GET a note system to	compute the Respon	e power value that		
original text: "For a aPSEPowerPairsC aPSEPowerPairsC SuggestedRemedy For a PD this attrib (see 30.9.1.1.3) on	PD this attribute contains ontrolAbility attribute (see ontrolAbility is in to 30.9.1 ute contains the value of	the value of the 30.9.1.1.4) on th .1.3 the aPSEPowerP			Chang the rer <i>Response</i> ACCE	e to: "A GET a note system to PT. SC 30.12.3	compute the Respon	e power value that se Status W	t has currently al	located to the PD"
original text: "For a aPSEPowerPairsC aPSEPowerPairsC SuggestedRemedy For a PD this attrib	PD this attribute contains ontrolAbility attribute (see ontrolAbility is in to 30.9.1 ute contains the value of the given port	the value of the 30.9.1.1.4) on th .1.3 the aPSEPowerP			Chang the rer Response ACCE	e to: "A GET a note system to PT. SC 30.12.3 ete	compute th <i>Respon</i> 1.18a	e power value that se Status W P 51	t has currently al	located to the PD"
original text: "For a aPSEPowerPairsC aPSEPowerPairsC SuggestedRemedy For a PD this attrib (see 30.9.1.1.3) on Response	PD this attribute contains ontrolAbility attribute (see ontrolAbility is in to 30.9.1 ute contains the value of the given port <i>Response Status</i>	the value of the 30.9.1.1.4) on th .1.3 the aPSEPowerP		attribute	Chang the rer Response ACCE C/ 30 Anslow, Pe Comment In the	e to: "A GET a note system to PT. SC 30.12.3 ete Type E editing instructi s:" 30.12.3.1.18	compute th Respon 1.18a Commo on, "Insert 3	e power value that se Status W P 51 Ciena ent Status A 30.12.3.1.18a throu	L 14 L 14 L 14	located to the PD" # 61
original text: "For a aPSEPowerPairsC aPSEPowerPairsC SuggestedRemedy For a PD this attrib (see 30.9.1.1.3) on Response ACCEPT. C/ 30 SC 30.12 Nendt, Matthias Comment Type ER	PD this attribute contains ontrolAbility attribute (see ontrolAbility is in to 30.9.1 ute contains the value of the given port <i>Response Status</i> 2.3.1.9 <i>P</i> 49 Philips <i>Comment Status</i>	the value of the 30.9.1.1.4) on th .1.3 the aPSEPowerP W <i>L</i> 31 Lighting	airsControlAbility a # 40	attribute	Chang the rer Response ACCE C/ 30 Anslow, Pe Comment In the follows added Also, t	e to: "A GET a note system to PT. SC 30.12.3 ete <i>Type</i> E editing instructi s:" 30.12.3.1.18 he subclause r	compute th <i>Respon</i> 1.18a Common, "Insert 3 z has not be umbering de	e power value that se Status W P 51 Ciena ent Status A 30.12.3.1.18a throu	L 14 L 14 Lugh 30.12.3.1.18 count for the add	# 61 <i>Edito</i> z after 30.12.3.1.18 as itional subclauses y 1b) in:
original text: "For a aPSEPowerPairsC aPSEPowerPairsC SuggestedRemedy For a PD this attrib (see 30.9.1.1.3) on Response ACCEPT. Cl 30 SC 30.12 Wendt, Matthias Comment Type ER original text: "For a	PD this attribute contains ontrolAbility attribute (see ontrolAbility is in to 30.9.1 ute contains the value of the given port <i>Response Status</i> 2.3.1.9 <i>P</i> 49 Philips <i>Comment Status</i> PD this attribute contains	the value of the 30.9.1.1.4) on th .1.3 the aPSEPowerP W Lighting A a value derived to	airsControlAbility a # 40	attribute	Chang the rer Response ACCE C/ 30 Anslow, Pe Comment In the follows added Also, t	e to: "A GET a note system to PT. SC 30.12.3 ete <i>Type</i> E editing instructi s:" 30.12.3.1.18 he subclause r www.ieee802.0	compute th <i>Respon</i> 1.18a Common, "Insert 3 z has not be umbering de	e power value that se Status W P 51 Ciena ent Status A 60.12.3.1.18a throu een updated to acc bes not follow the	L 14 L 14 Lugh 30.12.3.1.18 count for the add	# 61 <i>Edito</i> z after 30.12.3.1.18 as itional subclauses y 1b) in:
original text: "For a aPSEPowerPairsC aPSEPowerPairsC SuggestedRemedy For a PD this attrib (see 30.9.1.1.3) on Response ACCEPT. Cl 30 SC 30.12 Wendt, Matthias Comment Type ER original text: "For a	PD this attribute contains ontrolAbility attribute (see ontrolAbility is in to 30.9.1 ute contains the value of the given port <i>Response Status</i> 2.3.1.9 <i>P</i> 49 Philips <i>Comment Status</i> PD this attribute contains 1.1.3) on the given port	the value of the 30.9.1.1.4) on th .1.3 the aPSEPowerP W Lighting A a value derived to	airsControlAbility a # 40	attribute	Chang the rer Response ACCE C/ 30 Anslow, Pe Comment In the follows added Also, t http://v Suggested Chang	e to: "A GET a note system to PT. SC 30.12.3 ete Type E editing instructi s:" 30.12.3.1.18 he subclause r www.ieee802.0 IRemedy ie the editing in	compute th Respon 1.18a Comme on, "Insert 3 z has not be umbering de rg/3/WG_too	e power value that se Status W P 51 Ciena ent Status A 60.12.3.1.18a throu een updated to acc bes not follow the	L 14 L 14 L 14 L 14 L 14 L 14 L 14 L 14	# 61 Edito z after 30.12.3.1.18 as itional subclauses y 1b) in: ml#numb
original text: "For a aPSEPowerPairsC aPSEPowerPairsC SuggestedRemedy For a PD this attrib (see 30.9.1.1.3) on Response ACCEPT. C/ 30 SC 30.12 Wendt, Matthias Comment Type ER original text: "For a attribute (see 30.9. aPSEPowerPairs r SuggestedRemedy For a PD this attrib	PD this attribute contains ontrolAbility attribute (see ontrolAbility is in to 30.9.1 ute contains the value of the given port <i>Response Status</i> 2.3.1.9 <i>P</i> 49 Philips <i>Comment Status</i> PD this attribute contains 1.1.3) on the given port elates to 30.9.1.1.4 ute contains a value deriv	the value of the 30.9.1.1.4) on th 30.9.1.1.4) on th .1.3 the aPSEPowerP W <i>L</i> 31 Lighting A a value derived t	airsControlAbility a # 40	attribute 01 <i>Editorial</i> verPairs	Chang the rer Response ACCE C/ 30 Anslow, Pe Comment In the follows added Also, t http://v Suggested Chang 30.12. Also, r	e to: "A GET a note system to PT. SC 30.12.3 ete Type E editing instructi s:" 30.12.3.1.18 he subclause r www.ieee802.0 <i>IRemedy</i> le the editing in 3.1.18 as follow	compute th Respon 1.118a Commo on, "Insert 3 z has not be umbering dr g/3/WG_too struction to vs:"	e power value that se Status W P 51 Ciena ent Status A 00.12.3.1.18a throu een updated to acc bes not follow the ols/editorial/require	<i>L</i> 14 <i>L</i> 15 <i>L</i> 16 <i>L</i> 16 <i>L</i>	# 61 Edito z after 30.12.3.1.18 as itional subclauses y 1b) in: ml#numb 2.3.1.18z12 after
original text: "For a aPSEPowerPairsC aPSEPowerPairsC SuggestedRemedy For a PD this attrib (see 30.9.1.1.3) on Response ACCEPT. C/ 30 SC 30.12 Wendt, Matthias Comment Type ER original text: "For a attribute (see 30.9. aPSEPowerPairs r SuggestedRemedy	PD this attribute contains ontrolAbility attribute (see ontrolAbility is in to 30.9.1 ute contains the value of the given port <i>Response Status</i> 2.3.1.9 <i>P</i> 49 Philips <i>Comment Status</i> PD this attribute contains 1.1.3) on the given port elates to 30.9.1.1.4 ute contains a value deriv	the value of the 30.9.1.1.4) on th .1.3 the aPSEPowerP W <i>L</i> 31 Lighting A a value derived f	airsControlAbility a # 40	attribute 01 <i>Editorial</i> verPairs	Chang the rer Response ACCE C/ 30 Anslow, Pe Comment In the follows added Also, t http://v Suggested Chang 30.12. Also, r	e to: "A GET a note system to PT. SC 30.12.3 ete Type E editing instructi s:" 30.12.3.1.18 he subclause r www.ieee802.0 <i>IRemedy</i> le the editing in 3.1.18 as follow enumber 30.12	compute th Respon	e power value that se Status W P 51 Ciena ent Status A 30.12.3.1.18a throu een updated to acc bes not follow the bls/editorial/require	<i>L</i> 14 <i>L</i> 15 <i>L</i> 16 <i>L</i> 16 <i>L</i>	# 61 Edito z after 30.12.3.1.18 as itional subclauses y 1b) in: ml#numb 2.3.1.18z12 after

Pa **51** Li **14**

C/ 30 SC 30.12.3.1.18g P 52 L 46 # 62 Anslow, Pete Ciena	C/ 33 SC 33 P 59 L 4 # 424 Zimmerman, George CME Consulting/Aqua
Comment Type T Comment Status A Editorial "associated with the local system" should be "associated with the remote system" Same issue in 30.12.3.1.18h Editorial	Comment Type T Comment Status A Maintenance the move to clause 145 inadvertantly removed clause 33 support for 2.5G/5G/10GBASE-T PHYs added by 802.3bt. It is not clear this was intended. Task force to discuss.
SuggestedRemedy Change "associated with the local system" to "associated with the remote system" Make the same change in 30.12.3.1.18h Response Response Status C ACCEPT.	SuggestedRemedy Reinstate clause 33 changes specifically related to 2.5G/5G/10GBASE-T support. Response Response Status C ACCEPT IN PRINCIPLE. adopt zimmerman_3bt_01_0317.pdf
C/30 SC 30.12.3.1.18g P 52 L 46 # 63	C/ 33 SC 33.1 P 59 L 11 # 64
Anslow, Pete Ciena	Anslow, Pete Ciena
Comment Type E Comment Status A Pres: Darshan3 The three subclauses 30.12.3.1.18g, 30.12.3.1.18h, and 30.12.3.1.18i have identical text for APPROPRIATE SYNTAX (except for incorrect reference to local) with no explanation of what is different between the three. SuggestedRemedy SuggestedRemedy Expand the text of the three subclauses to clarify how they differ from one another.	Comment Type E Comment Status A Editorian When referring to a specific clause it is "Clause xx" with a capital C. However, the term "clause" on its own (as in "This clause") has a lower case c. SuggestedRemedy Change "Clause" to "clause" in two places in this paragraph. Editorian
Pesponse Response Status C ACCEPT IN PRINCIPLE.	Response Response Status C ACCEPT.
OBE by 122	Cl 33 SC 33.2 P 59 L 11 # 188
### ###	Schindler, Fred Seen Simply, Cisco, T
Comment 122 has the following response: ACCEPT IN PRINCIPLE. adopt darshan_03_0317Rev007F.pdf with editorial license to clean up.	Comment TypeERComment StatusAEditoriThe overview text,"This Clause specifies Type 1 and Type 2 devices. References to PSEs and PDs withoutType qualifier refer to Type 1 and Type 2 devices. See Clause 145 for the specification ofType 3 and Type 4 devices. This Clause does not contain definitions of Type 3 or Type 4devices."can be improved. "A" was added before Type and the last sentence was stricken.
	SuggestedRemedy
	SuggestedRemedy Replace the called out text with, "This Clause specifies Type 1 and Type 2 devices. References to PSEs and PDs without a Type qualifier refer to Type 1 and Type 2 devices. See Clause 145 for the specification of Type 3 and Type 4 devices."
	Replace the called out text with, "This Clause specifies Type 1 and Type 2 devices. References to PSEs and PDs without a Type qualifier refer to Type 1 and Type 2 devices. See Clause 145 for the specification of

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/generalPa 59COMMENT STATUS: D/dispatched A/accepted R/rejectedRESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawnLi 11SORT ORDER: Page, Line

Page 12 of 103 3/16/2017 10:31:46 AM

C/ 33 SC 33.1	P 59	L 13	# 244	C/ 79 SC 79.3.2.2	2 P 65	L 3	# 190
Stover, David	Linear Tech C	Corp		Schindler, Fred	Seen Simply	y, Cisco, T	
Comment Type E	Comment Status A		Pres: Beia1	Comment Type TR	Comment Status A		LLD
"This Clause specifies T of Type 3 and Type 4 de devices." The last sente	ype 1 and Type 2 devices. evices. This Clause does no nce is redundant.	. See Clause 14 t contain definition	5 for the specification ons of Type 3 or Type 4	However, some refer	621 were partial removed wh ences linger and may be rem		02.2 to D2.3 by #148.
SuggestedRemedy				SuggestedRemedy	2004 shissing (see see "is Tab	1. 70.0 k	4
,	ng with "This Clause does n	ot contain."		"Object reference"	3621 object reference" in Tab	ie 79-3 neader wi	in,
Response	Response Status C			Strike Note 2 text, an	d the "Note 2 and" reference	in Table 79-3 iten	n 1.
ACCEPT.				Response	Response Status W		
C/79 SC 79	P 61	L 1	# 128	ACCEPT.			
Darshan, Yair	Mirosemi			C/ 79 SC 79.3.2.2	2 P 65	L 12	# 189
Comment Type TR	Comment Status A		Pres: Darshan3	Schindler, Fred	Seen Simply	y, Cisco, T	
Clause 79 need to be up	Daated.			Comment Type ER	Comment Status D		LLD
SuggestedRemedy	adf			Existing text,	- 1114- JU		
See darshan_03_0317.p				"PSE pairs control at should use new term	inology to make the text easie	er to understand f	or 2P and 4P system
Response ACCEPT IN PRINCIPLE	Response Status C			readers.			
	-			SuggestedRemedy			
OBE by 122				same. On page 77 lir	m 3 with pairset in 3 places. ne-11 replace "PSE pairs" with		
### ### ###				line-11.			
Comment 122 has the for ACCEPT IN PRINCIPLE				Proposed Response REJECT.	Response Status Z		
adopt darshan_03_0317	Rev007F.pdf with editorial l	icense to clean	Jp.	This comment was V	VITHDRAWN by the commen	iter.	
C/79 SC 79.1.1.3	P 62	L 16	# 65				
Anslow, Pete	Ciena						
Comment Type E Comment #21 against D	Comment Status A 02.2 was ACCEPT, but was	not implemented	<i>Editorial</i> discorrectly.				
SuggestedRemedy							
	value:" in strikethrough font	add " 88-CC" in :	strikethrough font.				
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 **65** Li **12** Page 13 of 103 3/16/2017 10:31:46 AM C/ 79 SC 79.3.2.5 P 67 # 403 C/ 79 P 67 L 38 # 72 L 16 SC 79.3.2.5 Yseboodt, Lennart Anslow, Pete Philips Ciena Pres: Yseboodt1 Comment Type TR Comment Status D Comment Type Е Comment Status A Editorial "For Type 3 and Type 4 devices, the value should be (PD requested power value Mode A + The underlined "33.3.8.2" should have character tag External applied. PD requested power value Mode B)." SuggestedRemedy Apply character tag External. This construct, which is repeated in the Mode A and Mode B fields, as well as in the PSE allocated power fields, is problematic. Response Response Status C SuggestedRemedy ACCEPT. Adopt yseboodt_01_0317_lldp1fix.pdf C/ 79 SC 79.3.2.6a P 68 L 19 # 192 Proposed Response Response Status Z Schindler, Fred Seen Simply, Cisco, T REJECT. Comment Status D Comment Type TR Pres: Schindler1 This comment was WITHDRAWN by the commenter. In this section. 1. Sections related to DS devices only do not indicate this. Therefore the text incorrectly SC 79.3.2.5 C/ 79 P 67 L 17 # 191 applies to all devices. Schindler, Fred Seen Simply, Cisco, T 2. Some DS cross references are incorrect. 3. Values for Type 1,2 and SS devices are not provided. Comment Status A Comment Type ER Pres: Darshan8 SuggestedRemedy Existing text, "For Type 3 and Type 4 devices, the value should be (PD requested power value Mode A + The solution is provided in schindler_01_0317.pdf. PD requested power Proposed Response Response Status Z value Mode B)." Can be improved by removing the parenthesis and improving the sentence structure. REJECT. SuggestedRemedy This comment was WITHDRAWN by the commenter. Replace the called out text with, " Type 3 and Type 4 devices, shall provide the total PD requested power value for both Modes." Response Response Status C ACCEPT IN PRINCIPLE. OBE by 161 ### ### ### Comment 161 has the following response: ACCEPT IN PRINCIPLE. adopt darshan 08 0317 final.pdf with editorial license to fix grammar.

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 68 Li 19 Page 14 of 103 3/16/2017 10:31:46 AM

79 SC 79.3.2.6a P 68 L 19 # [161] arshan, Yair Mirosemi	Cl 79 SC 79.3.2.6a P 68 L 25 # 193 Schindler, Fred Seen Simply, Cisco, T Seen S
Image: system TR Comment Status A Pres: Darshan8 In 79.3.2.6a, 79.3.2.6b, 79.3.2.6c.2, 79.3.2.6c.3, 79.3.2.6d and Table 79-6a: The text is related to dual-signature devices but doesn't specify it explicitly in the title of the subclaus and in its content. Example: In the text "79.3.2.6a PD requested power value Mode A and Mode B" it should be "79.3.2.6a Dual-signature PD requested power value Mode A and Mode B". Also the content of some of the items above is wrong and involves single-signature values and dual-signature values. uggestedRemedy See darshan_08_0317.pdf. If not ready for the meeting, ADD it to the TODO list. esponse Response Status C	Comment Type ER Comment Status A Pres: Darshan8 Table 79-6a exists on pages 68 and 70. Table 79-6b exists on pages 69, and 71. SuggestedRemedy Correct Table numbering and related cross references. Response Response Status C ACCEPT IN PRINCIPLE. OBE by 161 ### ### ###
ACCEPT IN PRINCIPLE. adopt darshan_08_0317_final.pdf with editorial license to fix grammar. This comment resolves comments: 191, 193, 404, 405	Comment 161 has the following response: ACCEPT IN PRINCIPLE. adopt darshan_08_0317_final.pdf with editorial license to fix grammar.
79 SC 79.3.2.6a P 68 L 23 # 404	CI 79 SC 79.3.2.6b P 68 L 46 # 405 Wendt, Matthias Philips Lighting
endt, Matthias Philips Lighting omment Type E Comment Status A Pres: Darshan8 original text: " the PD requested power field defined in Table 79.3.2.5 is the sum" The table reference is wrong, should be Table 79-5.	Comment Type E Comment Status A Pres: Darshan8 original text: " the PSE allocated power value field defined in Table 79.3.2.5 is the sum of " The table reference is wrong, should be Table 79-6.
uggestedRemedy Replace Table 79.3.2.5 by Table 79-5. Probably OBE by yseboodt_01_0317_IIdp1fix.pdf	SuggestedRemedy Replace Table 79.3.2.5 by Table 79-6. Probably OBE by yseboodt_01_0317_IIdp1fix.pdf
ACCEPT IN PRINCIPLE.	Response Response Status C ACCEPT IN PRINCIPLE.
OBE by 161	OBE by 161
### ###	### ###
Comment 161 has the following response: ACCEPT IN PRINCIPLE.	Comment 161 has the following response: ACCEPT IN PRINCIPLE.

Page 1 3/16/20

Pa **68** Li **46** Page 15 of 103 3/16/2017 10:31:46 AM

Cl 79 SC 79.3.2.6c.1 P 69 L 20 # 194 Schindler, Fred Seen Simply, Cisco, T	C/ 79 SC 79.3.2.6d.1 P 70 L 44 # 406 Yseboodt, Lennart Philips
Comment Type ER Comment Status D LLDP Existing text, "The PSE power pairsx field shall contain an integer value for PSE power pairs defined by ." should use new terminology to make the text easier to understand 4P system readers. SuggestedRemedy	Comment Type TR Comment Status A LLI The Power Classx field in Table 79-6a allows a Type 3/4 PD to identify itself as a Class 0 device. This class is not allowed. Even to the test of
Replace the called out text with, "The PSE power pairsx field shall contain an integer value for PSE pairsets defined by ." Proposed Response Response Status Z REJECT.	SuggestedRemedy Change field Power Classx as follow: Bit combo "0000" becomes "Dual-signature PD" Bit combo "1111" becomes Reserved/Ignore
This comment was WITHDRAWN by the commenter.	Response Response Status C ACCEPT IN PRINCIPLE.
C/ 79 SC 79.3.2.6c.2 <i>P</i> 69 <i>L</i> 27 # 138 Darshan, Yair Mirosemi	For Power ClassX Mode A(and B) fields:
Comment Type TR Comment Status D LLDP "The text PSEs connected to a single-signature PD and single-signature PDs set this field to value 0." The intent is not clear.	Change 000 to Reserved/Ignore and change 111 to SS PD. C/ 79 SC 79.3.2.6d.2 P 70 L 49 # 422 Zimmerman, George CME Consulting/Agua CME Consulting/Agua 422
SuggestedRemedy Group to discuss and clarify the text to make the intent clear. Proposed Response Response Status REJECT. This comment was WITHDRAWN by the commenter.	Comment Type T Comment Status A LL (PD 4PID field description) "This field shall be set according to Table 79-6b when the power type is PD." - the text is where explanation is supposed to be. The table additionall is vague, "PD supports (does not support) powering in both Modes" can be interpreted either as the intended "both modes simultaneously" or that either mode may (or may not which would be noncompliant) is allowed. LL
Cl 79 SC 79.3.2.6c.3 P 69 L 34 # 139 Darshan, Yair Mirosemi Comment Type TR Comment Status D LLDP	SuggestedRemedy P70 L49 Insert after ". 79-6b when the power type is PD": "indicating support or lack of support for 4 pair powering". (continuing sentence, with existing period). Change P71 L20 entries in table 79-6b bit 3 to read "both Modes simultaneously.".
"The text PSEs connected to a single-signature PD and single-signature PDs set this field to value 0." The intent is not clear. SuggestedRemedy	Response Response Status C ACCEPT IN PRINCIPLE.
Group to discuss and clarify the text to make the intent clear. Proposed Response Response Status Z REJECT. This comment was WITHDRAWN by the commenter.	ALSO, P71 L21 To be consistent with the proposed solution also amend the other case, WAS: "0 = PD does not support powering of both Modes" TO: "0 = PD does not support powering of both Modes simultaneously"
	Change "power type" to "power typex" on line 50.

TYPE: TR/technical required ER/editorial required GR/gener	al required T/technical E/editorial G/general	Pa 70	Page 16 of 103
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	Li 49	3/16/2017 10:31:46 AM
SORT ORDER: Page, Line			

C/ 79	SC 79.3.8	P 73	L 6	# 195		CI 79	SC 79.3.8.1	P 74	L 1	# 407
Schindler, Fr		Seen Simply,	Cisco, T			Yseboodt,		Philips		
comment Ty		Comment Status D			LLDP	Comment		Comment Status A		LLDP
PSE me efficienc	asurements d y by 12/32 = 4	Aeasurements TLV" wastes 1 o not use the same field. The 10%. This waste occurs for e modified without the need to	e TLV constructi very TLV transfe	on reduces the tran er. The existing text	sfer	Valid	values for these	sed in units of 1 mV bits are 1 through 65000 a" ing of the voltage field when r	neasurement so	ource = "Port total".
uggestedR										
	Figure 79-9,						•	ining for this combination is the	ne max() of the v	voltage of both pairsets.
		asurements" field. Replace the		ments" field name v	vith	Suggested		o following		
oposed Re	esponse	duce the string length from 30 Response Status Z	10 18.			"When	d after "1mV" th the Measuremore rset with the hig	ent source is set to 'Port total'	this field contai	ns the measurement of
REJECT	Γ.					Response		Response Status W		
This con	nment was W	THDRAWN by the commenter	er.			ACCE	PT.			
79	SC 79.3.8	P 73	L 17	# 216		CI 79	SC 79.3.8.1	P 74	L 1	# 196
inner, Joh	in	Sifos Techno	logies, In			Schindler,	Fred	Seen Simply,	Cisco, T	
measure ggestedR Modify th "PD mea	ements are co emedy he layout of th asurements" fi 6 octets. Corr	copies of Measurements, wh mmunicated from a PD to a F e TLV, removing the "PSE m eld to "Measurements". Corr ect the TLV information string <i>Response Status</i> C	PSE, or from a P easurements" fir ect the length of	SE to a PD. eld, and renaming the Measurements	he	bit is 0 measu be set Suggested Let the Proposed I REJEC	rement value sł to 0.", repeats t <i>Remedy</i> Editor decide v <i>Response</i> CT.	s not support a particular me nall	called out text.	corresponding
						CI 79	SC 79.5.3	P 82	L 2	# 73
						Anslow, Pe	te	Ciena		
						Comment There	51	<i>Comment Status</i> A truction for the table in 79.5.3		Editorial
						S <i>uggested</i> Add ar	Remedy editing instruct	ion		
						Response ACCE	Ū	Response Status C		
OMMENT		ed ER/editorial required GR ispatched A/accepted R/reje e					U/unsatisfied	Pa 8 2 Z/withdrawn Li 2	2	Page 17 of 103 3/16/2017 10:31:46

<i>Cl</i> 79 <i>SC</i> 79.5.8 Anslow, Pete	<i>P</i> 85 Ciena	L 9	# 74	Cl 145 SC Beia, Christian	145.1	P 87 STMicroelecti	L 8 onics	# 82
	Comment Status A T36 should have been delet PMT2, and PMT3 instead).	ed due to Com	<i>Editorial</i> ment #22 against D2.2			Comment Status A t is needed to explain the relate n of Clause 33 for 4-pairs oper		Pres: Beia1 lause 33. Clause 145 is
SuggestedRemedy Delete PVT34, PVT35, Response ACCEPT. Cl 145 SC 145	and PVT36 Response Status C	L 4	# 81	Ethernet (PoE With: This clause d	ext: efines the) system efines the he Powe	e functional and electrical cha n for deployment over balance e functional and electrical cha r over Ethernet (PoE) system	d twisted-pair	cabling. providing a 4-pairs
title for Clause 145 sinc the idea that Clause 14 The scope of this projec Std 802.3 standard with should be reflected in th	s to use a name which includ	y used, seems onship with Cla bE. augment the ca d power manag	use 33, and conveys pabilities of the IEEE gement information. This	Response ACCEPT IN F OBE by 83 ### ### ###	PRINCIP has the f	Response Status C LE. following response:		
SuggestedRemedy Change the title of claus Power over Ethernet to DTE Power via MDI ove				adopt beia_0 [,] Also, add TDI address use o	L (Dave ⁻	T., Lennart): Figure out how o	ther clauses li	nk to DTE/PoE. How to
Proposed Response	Response Status Z							

Pa **87** Li **8**

C/ 145 SC 145.1 P 87 L 14 # 197 Schindler, Fred Seen Simply, Cisco, T Seen Simply, Cisco, T 197	C/ 145 SC 145.1 P 87 L 15 # 75 Anslow, Pete Ciena
Comment Type ER Comment Status A Editorial The overview text, "This Clause specifies Type 3 and Type 4 devices and their interaction with Type 1 and Type 2 devices. Editorial References to PSEs and PDs without Type qualifier refer exclusively to Type 3 and Type 4 devices. See See	Comment Type E Comment Status A Editorial When referring to a specific clause it is "Clause xx" with a capital C. However, the term "clause" on its own (as in "This clause") has a lower case c. However, the term SuggestedRemedy Change "Clause" to "clause" Change "to "clause"
Clause 33 for the specification of Type 1 and Type 2 devices. SuggestedRemedy "This Clause specifies Type 3 and Type 4 devices and their interaction with Type 1 and	Response Response Status C ACCEPT.
Type 2 devices. References to PSEs and PDs without a Type qualifier refer exclusively to Type 3 and Type 4 devices. See	Cl 145 SC 145.1 P 87 L 21 # 22 Abramson, David Texas Instruments Texas Instruments </td
Clause 33 for the specification of Type 1 and Type 2 devices." Response Response Status W ACCEPT.	Comment Type ER Comment Status A Pres: Beia 1 The term DTE (and DTI Power via MDI on page 88 in multiple locations) is used here even though this clause is now titled Power over Ethernet and has no mention of DTI Power via MDI anywhere before this. This seems confusing. Pres: Beia 1
C/ 145 SC 145.1 P 87 L 15 # 83 Beia, Christian STMicroelectronics STMicroelectronics Pres: Beia1 Comment Type TR Comment Status A Pres: Beia1	SuggestedRemedy Add to section 145.1 (page 87, line 17) in a new paragraph: This clause uses the terms "DTE Power via MDI" and "Power over Ethernet" interchangeably.
Some text is required to harmonize Clause 145 with Clause 33 after the split. SuggestedRemedy	Response Response Status C ACCEPT IN PRINCIPLE.
See beia_01_0317.pdf for baseline proposal Response Response Status C	OBE by 83
ACCEPT IN PRINCIPLE. adopt beia_01_0317_final.pdf	### ### ### Comment 83 has the following response: ACCEPT IN PRINCIPLE.
Also, add TDL (Dave T., Lennart): Figure out how other clauses link to DTE/PoE. How to address use of DTE in clause 145.	adopt beia_01_0317_final.pdf
This comment resolves comments: 22, 35, 82, 219	Also, add TDL (Dave T., Lennart): Figure out how other clauses link to DTE/PoE. How to address use of DTE in clause 145.

Pa **87** Li **21**

<i>Cl</i> 145 <i>SC</i> 145.1.3 Tuenge, Jason	P 89 Pacific Northv	L 18 vest Nati	# 277	C/ 145 SC 145.1.3 P 89 L 37 # 170 Jones, Chad Cisco
Comment Type E To align with first senter	Comment Status R nce in subclause.		Editorial	Comment TypeEComment StatusRPSE TyType 4 - 2 or 4 pairs? Type 4 systems only run in 2P mode under fault.
SuggestedRemedy Change "System" to "Po	ower system".			SuggestedRemedy change row 2 column 3 from '2 or 4' to '4'
Response REJECT.	Response Status C			Response Response Status C REJECT.
This section relates to the Parameters	he section in Clause 33 titled	d "Type 1 and Ty	ype 2 System	Not true. Type 4 systems have to be 4-pair capable, but are not restricted from operating over 2-pairs when sourcing class 4 or below.
C/ 145 SC 145 Anslow, Pete	<i>P</i> 89 Ciena	L 21	# 80	C/ 145 SC 145.1.3 P 90 L 1 # 274 Tuenge, Jason Pacific Northwest Nati Pacific Northwest Natio Pacific Northwest Natio
	Comment Status A variants have been moved to ers to Clause 33 for the part	,		Comment Type E Comment Status A Edit There are a total of 8 conductors in a cable, and a minimum of 2 (wired in series) are required to form a loop. I believe my proposed change would make the text more accuration. E E
Add some more pointers	s to Clause 33 (as is done ir SE types less than 3 are def		articular in 145.1.3 and	SuggestedRemedy Change "a single conductor" to "two conductors in series", and change "a pair of conductors" to "two such loops".
Add some more pointers 145.2.1 to say where PS	SE types less than 3 are def <i>Response Status</i> C		articular in 145.1.3 and	Change "a single conductor" to "two conductors in series", and change "a pair of
Add some more pointers 145.2.1 to say where PS Response ACCEPT IN PRINCIPLE Editor to add reference	SE types less than 3 are def <i>Response Status</i> C E. to 33.1.4 somewhere in 145	ined.	articular in 145.1.3 and	Change "a single conductor" to "two conductors in series", and change "a pair of conductors" to "two such loops". Response Response Status C ACCEPT IN PRINCIPLE. Replace "The cable references use "DC loop resistance," which refers to a single conductor."
Add some more pointers 145.2.1 to say where PS Response ACCEPT IN PRINCIPLE Editor to add reference to 145.2.1 taken care of by	SE types less than 3 are def <i>Response Status</i> C E. to 33.1.4 somewhere in 145 y other comments.	ined. .1.3		Change "a single conductor" to "two conductors in series", and change "a pair of conductors" to "two such loops". Response Response Status C ACCEPT IN PRINCIPLE. Replace "The cable references use "DC loop resistance," which refers to a single
Add some more pointers 145.2.1 to say where PS Response ACCEPT IN PRINCIPLE Editor to add reference to 145.2.1 taken care of by C/ 145 SC 145.1.3	SE types less than 3 are def <i>Response Status</i> C E. to 33.1.4 somewhere in 145	.1.3 <i>L</i> 26	articular in 145.1.3 and # 278	Change "a single conductor" to "two conductors in series", and change "a pair of conductors" to "two such loops". Response Response Status C ACCEPT IN PRINCIPLE. Replace "The cable references use "DC loop resistance," which refers to a single conductor." with "The cable references use "DC loop resistance," which refers to two single conductor.
Add some more pointers 145.2.1 to say where PS Response ACCEPT IN PRINCIPLE Editor to add reference f 145.2.1 taken care of by C/ 145 SC 145.1.3 Fuenge, Jason	SE types less than 3 are def <i>Response Status</i> C E. to 33.1.4 somewhere in 145 y other comments. <i>P</i> 89 Pacific Northw <i>Comment Status</i> R	.1.3 <i>L</i> 26		Change "a single conductor" to "two conductors in series", and change "a pair of conductors" to "two such loops". Response Response Status C ACCEPT IN PRINCIPLE. Replace "The cable references use "DC loop resistance," which refers to a single conductor." with "The cable references use "DC loop resistance," which refers to two single conductor in series. Replace "This clause uses "pairset DC loop resistance," which refers to a pair of
Add some more pointers 145.2.1 to say where PS Response ACCEPT IN PRINCIPLE Editor to add reference f 145.2.1 taken care of by Cl 145 SC 145.1.3 Fuenge, Jason Comment Type E To align with first senter	SE types less than 3 are def <i>Response Status</i> C E. to 33.1.4 somewhere in 145 y other comments. <i>P</i> 89 Pacific Northw <i>Comment Status</i> R nce in subclause.	.1.3 <i>L</i> 26	# 278	Change "a single conductor" to "two conductors in series", and change "a pair of conductors" to "two such loops". Response Response Status C ACCEPT IN PRINCIPLE. Replace "The cable references use "DC loop resistance," which refers to a single conductor." with "The cable references use "DC loop resistance," which refers to two single conductor in series. Replace "This clause uses "pairset DC loop resistance," which refers to a pair of conductors in parallel."
145.2.1 to say where PS Response ACCEPT IN PRINCIPLE Editor to add reference i 145.2.1 taken care of by CI 145 SC 145.1.3 Tuenge, Jason Comment Type E To align with first senter SuggestedRemedy	SE types less than 3 are def <i>Response Status</i> C E. to 33.1.4 somewhere in 145 y other comments. <i>P</i> 89 Pacific Northw <i>Comment Status</i> R nce in subclause.	.1.3 <i>L</i> 26	# 278	Change "a single conductor" to "two conductors in series", and change "a pair of conductors" to "two such loops". Response Response Status C ACCEPT IN PRINCIPLE. Replace "The cable references use "DC loop resistance," which refers to a single conductor." with "The cable references use "DC loop resistance," which refers to two single conductor in series. Replace "This clause uses "pairset DC loop resistance," which refers to a pair of conductors in parallel."

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 **90** Li **1** Page 20 of 103 3/16/2017 10:31:46 AM

7 145 SC 145.1.3 tewart, Heath	P 90 Linear Tech (L 19 Corp	# 217	C/ 145 SC 145.1.3.2 P 90 L 41 # 270 Thompson, Geoff GraCaSI S.A. GraCaSI S.A. Figure 100 Figure 100
comment Type E	Comment Status A		Editorial	Comment Type TR Comment Status A Definit
Missing the.				This definition for "channel" is NOT the same as the definition in cabling docs, therefore
uggestedRemedy				using the term channel as defined here will cause great confusion and accompanying technical inaccuracy.
Replace V_PD is voltage				SuggestedRemedy
with				Use the term "link section" for the PI to PI cabling.
V_PD is the voltage				Response Response Status C
	Response Status C			ACCEPT IN PRINCIPLE.
ACCEPT.				OBE by 269
145 SC 145.1.3	P 90	L 22	# 218	
ewart, Heath	Linear Tech (Corp		### ###
omment Type E Missing the.	Comment Status A		Editorial	Comment 269 has the following response: ACCEPT IN PRINCIPLE.
uggestedRemedy Replace V_PSE is voltage with V_PSE is the voltage				Add to TDL (Geoff T.): Create list of "channel" instances to be changed to "link section". Include any places channel is referenced, i.e. Rch, Rchan, etc.
esponse ACCEPT.	Response Status C			
145 SC 145.1.3.1	P 90	L 31	# 79	
nslow, Pete	Ciena			
comment Type T	Comment Status R		Cabling	
	maximum ambient temperang unless it is clear what the			
uggestedRemedy				
Clarify what the 10 C and	d 5 C reduction is with resp	ect to.		
Pesponse	Response Status C			
REJECT.				

Pa **90** Li **41**

C/ 145 SC 145.1.3 P 90 L 90 # 198 Schindler, Fred Seen Simply, Cisco, T Seen Si	C/ 145 SC 145.2.1 P 91 L 20 # 35 Abramson, David Texas Instruments Texas Section 100 Texas Section 100<
Comment Type ER Comment Status D Definitions The term pair typical references a pair within a pairset. A pairset is both pairs of a PSE Alternative or PD Mode. Existing text, The text, The pair typical references a pair within a pairset. A pairset is both pairs of a PSE Alternative or PD Mode. Existing text, "VPD is voltage at the PD PI measured between any positive conductor of a pair and any negative conductor of the corresponding pair.	Abramson, David Texas Instruments Comment Type E Comment Status A Pres: Beia PSE Types should mention Types 1 and 2 and point to clause 33 (just like the PD section does). SuggestedRemedy Change: "PSEs can be categorized as either Type 3 or Type 4 PSEs." to: "PSEs can be categorized as either Type 1, Type 2, Type 3, or Type 4. See 33.2 for the specification of Type 1 and Type 2 PSEs."
VPSE is voltage at the PSE PI measured between any positive conductor of a pair and any negative conductor of the corresponding pair." Can be improved by using pairset. SuggestedRemedy Replace the called out text with,	Response Response Status C ACCEPT IN PRINCIPLE. OBE by 83
"VPD is voltage at the PD PI measured between any positive conductor of a pairset and any negative conductor of the same pairset. VPSE is voltage at the PSE PI measured between any positive conductor of a pairset and any negative conductor of the same pairset."	### ### Comment 83 has the following response: ACCEPT IN PRINCIPLE.
Proposed Response Response Status Z REJECT. This comment was WITHDRAWN by the commenter.	adopt beia_01_0317_final.pdf Also, add TDL (Dave T., Lennart): Figure out how other clauses link to DTE/PoE. How to address use of DTE in clause 145.

Pa **91** Li **20**

C/ 145 SC 145.2.1 P 91 L 24 # 219 Stewart, Heath Linear Tech Corp Linear Tech Corp<	C/ 145 SC 145.2.1 P 91 L 35 # 335 Yseboodt, Lennart Philips
Comment Type E Comment Status A Pres: Beia1 Although the change to a split clause has been smooth, I rather prefer the informative Type comparison table to keep Type 1 and Type 2 data in them. SuggestedRemedy Restore Table 145-2 from Draft 2.2 Response Response Status C	Comment Type E Comment Status A Editoria Footnote 'a' for Table 145-2 only shows Physical layer table, but is also used for DLL. SuggestedRemedy Add: "and Table 145-12" to the footnote text. Response Response Status C ACCEPT. C C
ACCEPT IN PRINCIPLE. OBE by 83 ### ### ### Comment 83 has the following response: ACCEPT IN PRINCIPLE. adopt beia_01_0317_final.pdf	Cl 145 SC 145.2.3 P 93 L 2 # 273 Thompson, Geoff GraCaSI S.A. Comment Type ER Comment Status A Editorial Same as above for subsequent figures. SuggestedRemedy Replace labels with something more suitable. Powering DTE and "Powered DTE" would
Also, add TDL (Dave T., Lennart): Figure out how other clauses link to DTE/PoE. How to address use of DTE in clause 145.	be a candidate. Response Response Status W ACCEPT IN PRINCIPLE.
Cl 145 SC 145.2.1 P 91 L 30 # 171 Jones, Chad Cisco Cisco PSE Types Comment Type E Comment Status D PSE Types Table 145-2, row 2, column 3. Why is this not Class 1 to 4? SuggestedRemedy change to 'Class 3 to 4' to 'Class 1 to 4' Proposed Response Response Status Z REJECT. REJECT. Response	OBE by 272 ### ### Comment 272 has the following response: ACCEPT IN PRINCIPLE. Change "Switch/Hub" to "Powering Equipment" and "Powered End Station" to "Powered Equipment".

This comment was WITHDRAWN by the commenter.

Pa **93** Li **2**

C/ 145 SC 145.2.3 P 93 L 2 # 272	C/ 145 SC 145.2.4 P 99 L 44 # 221
C/ 145 SC 145.2.3 P 93 L 2 # 272 Thompson, Geoff GraCaSI S.A.	Stewart, Heath Linear Tech Corp
Comment Type ER Comment Status A Editorial	Comment Type E Comment Status D Editoria
The use of the terms "Switch/Hub" and "Powered End Station" are prejudicial and technically inaccurate. PoE can be used between any two DTEs as long as there is a PSE and a PD. For example, there are a number of applications where an upstream power feed might be very useful.	Although the change to a split clause has been smooth, I rather prefer the informative Type comparison table to keep Type 1 and Type 2 data in them. SuggestedRemedy
SuggestedRemedy	Restore Table 145-4 from Draft 2.2
Replace labels with something more suitable. Powering DTE and "Powered DTE" would be a candidate.	Proposed Response Response Status Z REJECT.
Response Response Status W	This comment was WITHDRAWN by the commenter.
ACCEPT IN PRINCIPLE.	C/ 145 SC 145.2.4 P 99 L 44 # 23
Change "Switch/Hub" to "Powering Equipment" and "Powered End Station" to "Powered	Abramson, David Texas Instruments
Equipment".	Comment Type E Comment Status D Editoria
This comment resolves comment: 273	Table 33-4 is no longer needed, it can be replaced with two simple sentences.
C/ 145 SC 145.2.4 P 99 L 38 # 220	SuggestedRemedy
Stewart, Heath Linear Tech Corp Comment Type E Comment Status D Editorial A sentence was deleted during the split clause without clear logic. "For the purposes of data transfer, the type of PSE data port is relevant to the far-end PD,	Replace sentence (page 99, line 39) "PSEs shall use only the permitted polarity configurations associated with Alternative A or Alternative B listed in Table 145-4 corresponding with their Type." with: "Type 3 PSEs may use any of the valid Alternatives shown in Table 145-3. Type 4 PSEs shall use Alternative A(MDI-X) and Alternative B(S)."
and in some cases,to the cabling system between them. Therefore, Alternative A matches the positive voltage to the transmit pair of the PSE in legacy systems, such as 10BASE-T and 100BASE-TX" Type 3 PSEs may have Alt A only implementations.	Proposed Response Response Status Z REJECT.
SuggestedRemedy	This comment was WITHDRAWN by the commenter.
Put back in "For the purposes of data transfer, the type of PSE data port is relevant to the far-end PD, and in some cases,to the cabling system between them. Therefore, Alternative A matches the positive voltage to the transmit pair of the PSE in legacy systems, such as	C/ 145 SC 145.2.5 P 100 L 7 # 245 Stover, David Linear Tech Corp Linear Tech Corp Linear Tech Corp Linear Tech Corp
10BASE-T and 100BASE-TX"	Comment Type TR Comment Status D Editoria
Proposed Response Response Status Z REJECT.	"PSEs shall provide the behavior of the state diagrams shown in Figure 145-13 to Figure 145-19". Figures within this range include optional features, e.g. 4-pair power, autoclass, option variables.
This comment was WITHDRAWN by the commenter.	SuggestedRemedy
	Replace with "PSEs shall implement the behavior of the state diagrams shown in Figure 145-13 to Figure 145-19 for all mandatory features and for any supported optional features."
	Proposed Response Response Status Z

REJECT.

This comment was WITHDRAWN by the commenter.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	Pa 100	Page 24 of 103
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	Li 7	3/16/2017 10:31:47 AM
SORT ORDER: Page, Line		

C/ 145 SC 145.2.5.1.1 P 100 L 33 # 246 Stover, David Linear Tech Corp Linear Tech Corp	C/ 145 SC 145.2.5.1.1 P 100 L 52 # 222 Stewart, Heath Linear Tech Corp Linear Tech Corp Linear Tech Corp Linear Tech Corp
Comment Type ER Comment Status A Editorial	Comment Type E Comment Status A Editorial
"Detection timing requirements are specified in Table 145-8." False. Detection electrical requirements are specified in Table 145-8. Detection timing requirements (tdet, tdbo) are specified in Table 145-16.	The use of respectively to compare a list containing two items to a list containing three items is unclear. Split the sentence.
Suggested Remedy	SuggestedRemedy
This paragraph seems to be about timing requirements. Then, replace aforementioned baseline with "Detection and power turn-on timing requirements are specified in Table 145-16." Strike sentence "Power turn-on timing requirements are specified in Table 145-16." <i>Response</i> Response Status W	Replace Monitoring of MPS and inrush is handled by Figure 145-17, Figure 145-18 and Figure 145- 19 respectively. With Monitoring of MPS is handled by Figure 145-17 and Figure 145-18. Monitoring of inrush is
ACCEPT.	handled by Figure 145-19.
C/ 145 SC 145.2.5.1.1 P 100 L 38 # 247	Response Response Status C ACCEPT.
Stover, David Linear Tech Corp	C/ 145 SC 145.2.5.2 P 101 L 27 # 248
Comment Type TR Comment Status A PSE SD	Stover, David Linear Tech Corp
Resubmitting request to accept resolution to Comment #289 against D2.2 (stover_02_0117_rev04.pdf, "alt_pri"). To recap, variables "alt_pri" and "pingpong_en" in PSE SD are set but never sampled. The behavior for setting and toggling the definition of Primary and Secondary alternatives is clearly defined in 145.2.5.1.1 and does not conflict	Comment Type E Comment Status A Editorial "Some states in the state diagram.to condition which action are taken within the state." Mixed form, singular/plural.
with the PSE SD when the aforementioned variables are removed. As announced in Huntington Beach, this solution or another technically complete solution must be accepted against D2.3.	SuggestedRemedy Replace fragment with "to condition which actions are taken within the state".
SuggestedRemedy Accept stover_02_0117_rev04.pdf, Slide 4.	Response Response Status C ACCEPT.
Response Response Status C ACCEPT IN PRINCIPLE.	C/ 145 SC 145.2.5.4 P 105 L 15 # 336 Yseboodt, Lennart Philips
Add to TDL (Stover, Dylan, Jean): Remove or fix pingpong and alt_pri from PSE SD.	Comment Type ER Comment Status A Editorial Variable "option_classprobe" should be "option_class_probe". Editorial
	SuggestedRemedy Fix.
	Response Response Status W

Pa **105** Li **15**

<i>Cl</i> 145 <i>SC</i> 145.2.5.4 Darshan, Yair	P 105 Mirosemi	L 16	# 141	C/ 145 SC 145.2.5.7 Yseboodt, Lennart	P 106 Philips	L 30	# 338
option_class_prob SuggestedRemedy	Comment Status A assprob" doesn't exists in the	⇒state machine	<i>Editorial</i> it needs to be	Intent of classification bas	Comment Status A e of "pd_allocated_pwr" ar seline last cycle was to cha ower (=> pd_req_pwr), the	ange all to pse_	_allocated_pwr.
Response ACCEPT IN PRINCIPLI	Response Status C			SuggestedRemedy Global replace "pd_alloca This also takes care of du	ated_pwr" to "pse_allocated ual-signature.	d_pwr".	
change it to 'option_clas				Response ACCEPT.	Response Status W		
Cl 145 SC 145.2.5.4 Darshan, Yair Comment Type TR	P 105 Mirosemi Comment Status A	L 17	# 149 PSE SD	C/ 145 SC 145.2.5.4 Darshan, Yair	P 107 Mirosemi	L 6	# 148
determine the requested	riable description says "This ed Class of the PD when pse_	_avail_pwr is les	ss than 3." and the point	Comment Type T In the text "If pse_avail_p requested Class by the P	Comment Status A wr is less than 4, this varia SE: see pg reg pwr prob		
do_class_probe function	case of available power of clase on. It should be "pse_avail_pw		or equal to 3"	should be "by the PD" (2)	IN "pq_req_pwr_probe" it		req_pwr_probe".
do_class_probe function SuggestedRemedy	n. It should be "pse_avail_pw il_pwr is less than 3. To "pse Response Status W	wr is less than3 o		should be "by the PD" (2) SuggestedRemedy Change from: "If pse_ava requested Class by the P		should be "pd_ variable may no e." To: "If pse_;	t contain the actual avail_pwr is less than 4,
do_class_probe function SuggestedRemedy Change from "pse_avai Response ACCEPT IN PRINCIPLI	n. It should be "pse_avail_pw il_pwr is less than 3. To "pse Response Status W	wr is less than3 d e_avail_pwr is lea	ss than 3 or equal to 3."	should be "by the PD" (2) SuggestedRemedy Change from: "If pse_ava requested Class by the P this variable may not cont pd_req_pwr_probe." Response	IN "pq_req_pwr_probe" it ail_pwr is less than 4, this v SE; see pq_req_pwr_prob	should be "pd_ variable may no e." To: "If pse_;	t contain the actual avail_pwr is less than 4,
do_class_probe function SuggestedRemedy Change from "pse_avai Response ACCEPT IN PRINCIPLI Change from "pse_avai Cl 145 SC 145.2.5.4 Yseboodt, Lennart	n. It should be "pse_avail_pw il_pwr is less than 3. To "pse_ <i>Response Status</i> W E. il_pwr is less than 3. To "pse_ <i>P</i> 105 Philips	wr is less than3 d e_avail_pwr is lea	ss than 3 or equal to 3." ss than 4." # <u>337</u>	should be "by the PD" (2) SuggestedRemedy Change from: "If pse_ava requested Class by the P this variable may not com pd_req_pwr_probe." Response ACCEPT IN PRINCIPLE. Change to: "If pse_avail_pwr is les	IN "pq_req_pwr_probe" it ail_pwr is less than 4, this v SE; see pq_req_pwr_prob tain the actual requested C <i>Response Status</i> C ss than 4 and option_class_	should be "pd_ variable may no e." To: "If pse_ Class by the PD _probe is FALS	t contain the actual avail_pwr is less than 4, ; see E, this variable may not
do_class_probe function SuggestedRemedy Change from "pse_avai Response ACCEPT IN PRINCIPLI Change from "pse_avai Cl 145 SC 145.2.5.4 Yseboodt, Lennart Comment Type ER "This optional variable	n. It should be "pse_avail_pw il_pwr is less than 3. To "pse <i>Response Status</i> W E. il_pwr is less than 3. To "pse <i>P</i> 105 Philips <i>Comment Status</i> A	wr is less than3 (e_avail_pwr is les e_avail_pwr is les <i>L</i> 38	ss than 3 or equal to 3." ss than 4." # 337 Editorial	should be "by the PD" (2) SuggestedRemedy Change from: "If pse_ava requested Class by the P this variable may not com pd_req_pwr_probe." Response ACCEPT IN PRINCIPLE. Change to: "If pse_avail_pwr is les	IN "pq_req_pwr_probe" it ail_pwr is less than 4, this v SE; see pq_req_pwr_prob tain the actual requested C <i>Response Status</i> C	should be "pd_ variable may no e." To: "If pse_: Class by the PD _probe is FALS to_class_probe <i>L</i> 52	t contain the actual avail_pwr is less than 4, ; see E, this variable may not
do_class_probe function SuggestedRemedy Change from "pse_avai Response ACCEPT IN PRINCIPLI Change from "pse_avai Cl 145 SC 145.2.5.4 Yseboodt, Lennart Comment Type ER "This optional variable See comment #444 aga behavior. SuggestedRemedy Replace "optional variable	n. It should be "pse_avail_pw il_pwr is less than 3. To "pse. <i>Response Status</i> W E. il_pwr is less than 3. To "pse. <i>P</i> 105 <i>Philips</i> <i>Comment Status</i> A " ainst D2.2, variables are not o	wr is less than3 (e_avail_pwr is les e_avail_pwr is les <i>L</i> 38	ss than 3 or equal to 3." ss than 4." # 337 Editorial	should be "by the PD" (2) SuggestedRemedy Change from: "If pse_ava requested Class by the P this variable may not com pd_req_pwr_probe." Response ACCEPT IN PRINCIPLE. Change to: "If pse_avail_pwr is less contain the actual requess C/ 145 SC 145.2.5.4 Zimmerman, George Comment Type E font problem, cross ref to	IN "pq_req_pwr_probe" it ail_pwr is less than 4, this v SE; see pq_req_pwr_prob tain the actual requested C <i>Response Status</i> C as than 4 and option_class_ ted Class by the PD; see of <i>P</i> 107	should be "pd_ variable may no e." To: "If pse_i Class by the PD _probe is FALS do_class_probe 	t contain the actual avail_pwr is less than 4, ; see E, this variable may not " # <u>426</u> <i>Editorial</i>
do_class_probe function SuggestedRemedy Change from "pse_avai Response ACCEPT IN PRINCIPLE Change from "pse_avai Cl 145 SC 145.2.5.4 Yseboodt, Lennart Comment Type ER "This optional variable See comment #444 aga behavior. SuggestedRemedy Replace "optional variable	n. It should be "pse_avail_pw il_pwr is less than 3. To "pse_ <i>Response Status</i> W E. il_pwr is less than 3. To "pse_ <i>P</i> 105 Philips <i>Comment Status</i> A " ainst D2.2, variables are not of ble" by "variable" for:	wr is less than3 (e_avail_pwr is les e_avail_pwr is les <i>L</i> 38	ss than 3 or equal to 3." ss than 4." # 337 Editorial	should be "by the PD" (2) SuggestedRemedy Change from: "If pse_ava requested Class by the P this variable may not com pd_req_pwr_probe." Response ACCEPT IN PRINCIPLE. Change to: "If pse_avail_pwr is less contain the actual reques C/ 145 SC 145.2.5.4 Zimmerman, George Comment Type E	IN "pq_req_pwr_probe" it ail_pwr is less than 4, this w SE; see pq_req_pwr_prob tain the actual requested C <i>Response Status</i> C ss than 4 and option_class_ ted Class by the PD; see c <i>P</i> 107 CME Consult <i>Comment Status</i> A	should be "pd_ variable may no e." To: "If pse_i Class by the PD _probe is FALS do_class_probe 	t contain the actual avail_pwr is less than 4, ; see E, this variable may not " # <u>426</u> <i>Editorial</i>

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 Pa **107** Li **52** SORT ORDER: Page, Line

C/ 145 SC 145.2.5.4 P 110 # 427 C/ 145 SC 145.2.5.6 P 113 # 428 L 22 L 11 CME Consulting/Agua CME Consulting/Agua Zimmerman, George Zimmerman, George Comment Type E Comment Status A **F**ditorial Comment Type TR Comment Status A PSF SD pse avail pwr. pse avail pwr pri, and pse avail pwr sec are missing underscores between Is the variable P_AUTOCLASS (all caps), or P(sub)Autoclass? If it is P_AUTOCLASS, this the word-fragments. isn't used anywhere. Same problem exists in 145.5.3.5 on P211. L40. The editorial style is that of a value, not a variable (all caps). Suspect the desired variable is P(sub)Autoclass. SuggestedRemedy SuaaestedRemedv change pse avail pwr, pse avail pwr pri, and pse avail pwr sec to pse_avail pwr. Change: "P AUTOCLASS: The maximum power measured by the PSE, PAutoclass." to pse avail pwr pri, and pse avail pwr sec. "P(sub)Autoclass: The maximum power measured by the PSE." also same change P211 Response Response Status C 140 ACCEPT. Response Response Status W SC 145.2.5.6 C/ 145 P113 L7 # 249 ACCEPT IN PRINCIPLE. Linear Tech Corp Stover, David OBE by 339 Comment Type Е Comment Status A Editorial ### ### ### Missing a space between "defined in 145.2.7.2. This function returns." SuggestedRemedy Comment 339 has the following response: ACCEPT IN PRINCIPLE. Add a space before "This" Response Response Status C Replace from "The function returns ..." until "do_autoclassification" with: ACCEPT. "This function does not return any variables." SC 145.2.5.6 P113 C/ 145 L 10 # 339 Make same change to P211 L40. Yseboodt, Lennart Philips Comment Type **T** Comment Status A PSF SD The function do autoclass measure returns the variable P AUTOCLASS, which is not used in the state diagram. This variable seems an alias for P Autoclass, which is used in the text. There seems no need for this function to return a variable. SuggestedRemedy Remove from "The function returns ..." until "do autoclassification". Response Response Status C ACCEPT IN PRINCIPLE. Replace from "The function returns ..." until "do autoclassification" with: "This function does not return any variables." Make same change to P211 L40. This comment resolves comment: 428

IEEE 802.3bt D2.3 4-Pair PoE 3rd Working Group recirculation ballot comments

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Page, Line Pa 113 Li 11

C/ 145 SC 145.2.5.6 P 113 L 35 # 223 Stewart, Heath Linear Tech Corp Linear Tech Co	C/ 145 SC 145.2.5.6 P 113 L 38 # 147 Darshan, Yair Mirosemi			
Comment Type TR Comment Status A PSE SD	Comment Type T Comment Status A Pres: Yseboodt			
Per an open TDL and discussion in the room the following attempts to allow a limited and known set of class events to be embodied during do_class_probe and also to provide for a	In the text: "pd req pwr probe: This variable contains the requested Class of the PD." it has to be pd_req_pwr_probe.			
shorted first class event.	SuggestedRemedy			
aggestedRemedy	Change from "pd req pwr probe" To: "pd_req_pwr_probe"			
Add a sentence after "This functions discovers the requested Class of the PD by producing a number of classification events."	Response Response Status C			
The classification events produced are limited to CLASS_EV1_LCE to MARK_EV3. The CLASS EV1 LCE timer is replaced with tcle2 timer to allow abbreviated class timing	ACCEPT IN PRINCIPLE.			
duration."	OBE by 342			
esponse Response Status W ACCEPT IN PRINCIPLE.	### ###			
Add a sentence after "This functions discovers the requested Class of the PD by producing a number of classification events.":	Comment 342 has the following response: ACCEPT IN PRINCIPLE.			
"The classification events produced are limited to CLASS_EV1_LCE to MARK_EV3. The CLASS_EV1_LCE tlce_timer may be replaced with tcle2_timer to allow abbreviated class	Adopt yseboodt_06_0315_classification.pdf while changing ".done" to _done where appropriate.			
timing duration."	C/ 145 SC 145.2.5.7 P 117 L 8 # 429			
C/ 145 SC 145.2.5.6 P 113 L 37 # 340	Zimmerman, George CME Consulting/Aqua			
seboodt, Lennart Philips	Comment Type T Comment Status A PSE S			
Comment Type E Comment Status A Editorial variable "pd req pwr probe" has no underscores in between words. Editorial Editorial	valid_sig_pri<= FALSE, valid_sig_sec<=FALSE - these don't appear to be used anywhere. It looks like everywhere in the state diag this has been replaced by checking sig_pri and sig_sec. Is the intent was to reset sig_pri and sig_sec so they don't read valid?			
uggestedRemedy	SuggestedRemedy			
Change to "pd_req_pwr_probe".	Change to sig_pri<=invalid, sig_sec <=invalid and delete variables valid_sig_pri and valid_seg_sec on P115, L31 and L45			
Response Response Status C	Response Response Status C			
ACCEPT.	ACCEPT IN PRINCIPLE.			
	Remove valid_sig_pri and valid_sig_sec from clause 145 (including their instance in the IDLE block).			

Pa **117** Li **8**

C/ 145 SC 145.2.	5.7 <i>P</i> 119	L 10	# 341	C/ 145 SC 145.2	2.5.7 <i>P</i> 120	L	# 115
Yseboodt, Lennart	Philips			Darshan, Yair	Mirosemi		
Comment Type T	Comment Status A		PSE SD	Comment Type TR	Comment Status A		PSE SD
PSE SD, from DETI (sig_pri != open_cire	ECT_EVAL to BACKOFF: "(pse cuit)".	_alternative = b)	* (sig_pri = invalid) *		neeting we agree that in ysebood fingers and 3 fingers (Option 1 a to PSE flexibility.		
The last statement i	s redundant to the second one.			SuggestedRemedy			
SuggestedRemedy				If not resolved, add	to TODO list.		
Replace by: "(pse_a	alternative = b) * (sig_pri = invali	d)"		Response	Response Status C		
Response ACCEPT.	Response Status C			ACCEPT IN PRINC	, CIPLE.		
C/ 145 SC 145.2.	5.7 <i>P</i> 119	L 27	# 430	Add TDL (Yair): Cre power = 4.	eate proposal for option to allow 2	2 or 3 class fing	ers if pse available
Zimmerman, George	CME Consult	ing/Aqua		C/ 145 SC 145.2	5.7 <i>P</i> 120	L 1	# 251
Comment Type TR	Comment Status A		Pres: Stover2	Stover, David	Linear Tech C	Corp	
circuits. SuggestedRemedy Change "sig_pri = ir Response ACCEPT.	nvalid" to "sig_pri != valid" and li Response Status W	kewise for sig_s	ec = invalid.	measurement perio to allow a PSE to is to IDLE, there is ins such a PSE transiti events, 1 to 5? Wh The PSE Class SD	eturn to IDLE any time between to ad and the end of the t_cle or t_lc sue some arbitrary number of cla sufficient guidance to accommod ion through CLASS_EV1_AUTO at value would be assigned to ps is are designed to transition betw	e timers. If the ass and mark e late the request ? Could the PSI e_allocated_pw reen states as a	intention of this TDL is vents before returning . For example, would E issue any number of rr? function of the previous
C/ 145 SC 145.2.	5.7 <i>P</i> 119	L 34	# 250		sults; it is unclear, the utility of over ntroducing additional complexity f		
Stover, David	Linear Tech C	Corp		anyway.			
Comment Type TR	Comment Status A		PSE SD	Also note that, rega and Type 4 PSEs.	ardless of the outcome of this TD	L, the behavior	only applies to Type 3
	condition in logic from DETECT	_EVAL->IDLE.		SuggestedRemedy			
SuggestedRemedy	-			TFTD, please.			
Modify transition log From: ". + (pse_alte	lic. rnative != both) * (sig_pri = opei ative = a) * (sig_pri != valid) + (p		b) * (sig_pri =	Response ACCEPT IN PRINC			
Response ACCEPT.	Response Status C			No change to draft.	PSEs must return to idle.		

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 **120** Li **1**

C/ 145 SC 145.2.5.7 P 120 Darshan, Yair Mirosemi	L 21	# 165	C/ 145 SC 145.2. Stover, David	5.7 <i>P</i> 120 Linear Tecl	L 45 n Corp	# 252
Comment Type TR Comment Status D PSE State machine needs some updates.		Pres: Darshan11	Comment Type TR Recent changes to I	Comment Status A PSE Class SD have broken d	emotion to Class 6	Pres: Yseboodt6
SuggestedRemedy See darshan_11_0317.pdf Proposed Response Response Status Z				pgic from CLASS_EV3->MAR * (pse_avail_pwr > 4) * ((pd_c		
REJECT. This comment was WITHDRAWN by the comme	onter		ACCEPT IN PRINC	Response Status C		
C/ 145 SC 145.2.5.7 P 120	L 43	# 342	OBE by 342			
Yseboodt, Lennart Philips			### ### ###			
Comment Type TR Comment Status A Fix mistakes in PSE classification found during s	imulation (if any).	Pres: Yseboodt6	Comment 342 has t ACCEPT IN PRINC	he following response: IPLE.		
SuggestedRemedy Adopt yseboodt_06_0315_classification.pdf			Adopt yseboodt_06_ appropriate.	_0315_classification.pdf while	changing ".done"	to _done where
Response Response Status C ACCEPT IN PRINCIPLE.			C/ 145 SC 145.2. Yseboodt, Lennart	5.7 <i>P</i> 121 Philips	L 29	# 343
Adopt yseboodt_06_0315_classification.pdf while appropriate.	e changing ".done"	to _done where	Comment Type E Statement "IF pd_re spaces.	Comment Status A eq_pwr = 4 * pd_class_sig!=4'	' is missing bracke	PSE SD ts for readability +
This comment resolves comments: 147, 252			SuggestedRemedy	req_pwr = 4) * (pd_class_sig	!= 4)"	
			Response ACCEPT.	Response Status C	,	
			Cl 145 SC 145.2. Zimmerman, George	5.7 <i>P</i> 121 CME Cons	L 29 ulting/Aqua	# 431
			Comment Type E	Comment Status A		PSE SD
				d_class_sig?4" pretty much e quality, parentheses are used equal)		
			SuggestedRemedy			
			change to (pd_req_	owr = 4) * (pd_class_sig ? 4)		
			Response ACCEPT.	Response Status C		
TYPE: TR/technical required ER/editorial required COMMENT STATUS: D/dispatched A/accepted R/r	J .				121	Page 30 of 103 3/16/2017 10:31:

SORT ORDER: Page, Line

Yseboodt, Lennart	P 121 Philips	L 30	# 344	C/ 145 SC 145.2.5.7 Yseboodt, Lennart	P 122 L 21 Philips	# 345
Comment Type E Statement "pd_req_pw SuggestedRemedy Add spaces around "+' Response ACCEPT.	Comment Status A rr <= pd_class_sig+5" is missing Response Status C	g spaces around	PSE SD 1+.	"pse_allocated_pwr". SuggestedRemedy	Comment Status A ate_pd_allocated_pwr" is not consiste o: "do_update_pse_allocated_pwr" Response Status C	PSE SE
C/ 145 SC 145.2.5.7 Picard, Jean	P 122 Texas Instrume	L 14 Ints	# 185	Cl 145 SC 145.2.5.7 Yseboodt, Lennart	P 122 L 22 Philips	2 # 346
!tpon_timer_done *tinr (tinrush_timer_sec_do "tinrush_timer_done" c	Comment Status A POWER_UP is incorrectly writ ush_timer_done * pwr_app_pri ne * pwr_app_sec)) loes not exist, it should have be	*(!alt_pwrd_sec		SuggestedRemedy	Comment Status A update = False" is missing to prevent the POWER_UPDATE state.	PSE SE looping.
SuggestedRemedy !tpon_timer_done *tinr (tinrush_timer_sec_do	ush_timer_pri_done * pwr_app_ ne * pwr_app_sec))	_pri *(!alt_pwrd_	sec +	Response ACCEPT.	Response Status C	
Response ACCEPT.	Response Status W			OBE by 95		
<i>Cl</i> 145 SC 145.2.5.7 Bullock, Chris	P 122 Cisco Systems	L 21	# 95	### ### ### Comment 95 has the foll ACCEPT. Suggested remedy:	owing response:	
Comment Type TR	Comment Status A er_update" is never assigned a	value of false.	PSE SD		E state, add "pse_power_update <= F	FALSE"
the variable "pse_powe	= 1 0					
SuggestedRemedy	TE state, add "pse_power_upda	ate <= FALSE"				

Pa **122** Li **22**

C/ 145 SC 145.2.5.7 P 122 L 22 # 163 Darshan, Yair Mirosemi Mirosemi <t< th=""><th>CI 145 SC 145.2.5.7 P 122 L 31 # 186 Picard, Jean Texas Instruments Texas Instruments Texas Instruments Texas Instruments</th></t<>	CI 145 SC 145.2.5.7 P 122 L 31 # 186 Picard, Jean Texas Instruments Texas Instruments Texas Instruments Texas Instruments
Comment Type TR Comment Status A DLL pse_power_update is set in the DLL state diagram Figure 145-43 to trigger an DLL DLL	Comment Type TR Comment Status A PSE SE The following exit condition to SEMI_PWRON_PRI is incorrect:
action in the main state diagram, where, after the update is done, the variable should be set to False. The issue is that this part is missing from the main PSE state diagram. We need to add "pse_power_update <= FALSE" to POWER_ON state in Figure 145-13 state POWER_ON.	semi_pwr_en * error_pri* !error_sec This is a path to operation over PRI-only, the error condition should be based on a "SEC" error condition. SuggestedRemedy
SuggestedRemedy	Replace with:
add "pse_power_update <= FALSE" to POWER_ON state in Figure 145-13 state	semi_pwr_en * error_sec* !error_pri
POWER_ON before the first IF statement.	Response Response Status W
Response Response Status C	ACCEPT.
ACCEPT.	
OBE by 95	CI 145 SC 145.2.5.7 P 122 L 33 # 199 Schindler, Fred Seen Simply, Cisco, T Seen Simp
### ### ###	Comment Type TR Comment Status A PSE SE
Comment 95 has the following response: ACCEPT.	Variable pse_power_update is never made FALSE and is tested in the PSE state diagram.
Suggested remedy:	SuggestedRemedy
In the POWER_UPDATE state, add "pse_power_update <= FALSE"	To state POWER_ON, added,
C/ 145 SC 145.2.5.7 P 122 L 25 # 347	"pse_power_update <= FALSE"
Yseboodt, Lennart Philips	Response Response Status C
Comment Type E Comment Status A PSE SD	ACCEPT.
Arc from POWER_ON to POWER_ON, has hanging "!".	OBE by 95
SuggestedRemedy	### ###
Move the ! to the next line and have !tmpdo_timer_done.	Comment 95 has the following response:
Response Response Status C	ACCEPT. Suggested remedy:

Pa **122** Li **33**

C/ 145 SC 145.2.5 Picard, Jean	.7 P 122 Texas Instrun	L 34 nents	# 187	C/ 145 SC 145.2.5 Yseboodt, Lennart	.7 P 123 Philips	L 45	# 350
semi_pwr_en * !erro	Comment Status A ndition to SEMI_PWRON_SEC _pri* error_sec ration over SEC-only, the error		PSE SD	Comment Type T Statement in exit arc "alt_sec_pwrd" in it. Should be "alt_pwrd_ SuggestedRemedy	Comment Status A from IDLE_ACS to MEASURE sec".	E_ACS has miss	PSE SD spelled variable name
SuggestedRemedy Replace with: semi_pwr_en * error Response	_pri* !error_sec Response Status W			Response ACCEPT.	ne "alt_sec_pwrd" to "alt_pwrd_ Response Status C		
ACCEPT. C/ 145 SC 145.2.5 Yseboodt, Lennart	.7 P 123 Philips	L 38	# 348	Cl 145 SC 145.2.5 Stover, David Comment Type T	.7 P 125 Linear Tech (Comment Status A	L 1 Corp	# [253 PSE SD
Comment Type T	Comment Status A from IDLE_ACS to WAIT_ACS	S has misspelle	PSE SD d variable name	PSE Class SD for du signature Class SD. pd_req_pwr and ther "pse_allocated_pwr"	al-signature PDs is inconsister Particularly, state CLASS_4PII efore pd_cls_4pid are known a paradigm is not implemented i	D4 is inconsiste Ifter 3 (not 4) cla	nt with the notion that ass events. Also, the
SuggestedRemedy	ne "alt_sec_pwrd" to "alt_pwrd_ Response Status C	sec".		single-signature PŠE logic such that pd_cl <i>Response</i>	inst D2.3, add to TDL: "Implem Class SD into dual-signature s_4pid_* are determined out of <i>Response Status</i> C	PSE Class SD.	Modify pd_cls_4pid
Cl 145 SC 145.2.5 Yseboodt, Lennart Comment Type T The statement "pd_a Physical Layer class	Philips Comment Status A utoclass = False" inside the ID	L 39	# 349 PSE SD overwrites results from	Class SD into dual-s	PLE. nplement pse_allocated_pwr s gnature PSE Class SD. Modify termined out of CLASS_EV3_	y pd_cls_4pid lo	
SuggestedRemedy	nt "pd_autoclass = False" in th <i>Response Status</i> C	e IDLE_ACS st	ate.				

Pa **125** Li **1**

-						
C/ 145	SC 145.2.5.7	P	125	L 7	# 93	C/ 145
Bullock, Ch	ris	Cis	co System	าร		Zimmerman
Comment 1	Type TR	Comment Statu	is A		PSE S	SD Comment Ty
"pse_a	vail_pwr" where	ASS_EV1_LCE_P they should use "p			d CLASS_EV3_PRI us	e "tcle2_ti pd_class !class_4
	t condition from	CLASS_EV1_LCE	PRI to N	/ARK_EV1_PRI	, replace	pse_ava makes t
"pse_a	vail_pwr" with "p	se_avail_pwr_pri"				SuggestedR
			PRI to MA	ARK_EV2_PRI,	replace "pse_avail_pwr	r" put pare
with "pe	se_avail_pwr_pr	i"				Response
		rom CLASS_EV3_ se_avail_pwr_pri"	PRI to MA	ARK_EV_LAST_	PRI, replace	ACCEP
Response	_, ,	Response Statu	s W			C/ 145
ACCEF	РТ.	,				Yseboodt, Le
	00 445 0 5 7		405	1.40	# 400	Comment Ty
Cl 145 Zimmermai	SC 145.2.5.7		' 125 E Consult	L 12	# 433	DLL_EN POWER
Comment 7	, C	Comment Statu		ing/Aqua	PSE S	Also we
	timer_pri_done *		5 A		FSE S	state. (Hidden
pd_clas	ss_sig_pri = tem	p_var_pri *?				SuggestedR
	4PID_mult_ever ail pwr > 4)" mi		around "	(pd class sig p	ri = temp_var_pri)"	Do:
makes	this unclear and	inconsistent - t	his is very	unclear when th	ne expressions are	- delete
equaliti		n branch logic and			f both using parens for nend using them always	
Suggestedl	Remedv					For the _
00		tently around logic	al equaliti	ies/inequalities in	n all branch equations	Response
on P12	5 and P129 (the	y are the only one	s that see	m to suffer from	this problem.)	ACCEPT
Response ACCEF	от	Response Statu	s C			Adopt da
AUULI	••					This con 326, 327

C/ 145	SC 145.2.5.7	P 12	5	L 17	# 432
Zimmerma	n, George	CME C	Consult	ing/Aqua	
pd_cla !class_ pse_av	timer_pri_done * ss_sig_pri = temp _4PID_mult_event	s_pri * missing parentheses		d "(pd_class_sig_	PSE S pri = temp_var_pri)"
Suggested	Remedy				
put pa	rentheses consiste	ently around logical e	equaliti	es/inequalities in t	oranch equations
Response ACCE	PT.	Response Status	С		
C/ 145	SC 145.2.5.7	P 12	7	L 17	# 351
Yseboodt,	Lennart	Philips	i		
Also, v state. (Hidde Suggested Do: - delete - appe	n agenda: this ma <i>Remedy</i> e DLL_ENABLE st nd to POWER_ON	kes room for the pov	wer up	date state Yair will	gle-sig POWER_ON
For the	e _SEC as well.				
Response ACCE	PT IN PRINCIPLE	Response Status	С		
Adopt	darshan_04_0317	Rev008.pdf			
	omment resolves o 27, 358, 389, 390	comments: 85, 86, 1	00, 10	1, 125, 127, 132, 1	133, 134, 136, 169,

Pa **127** Li **17**

C/ 145 SC 145.2.5.7 P 128 L 8 # 254 Stover, David Linear Tech Corp Linear Tech Corp <td< th=""><th>C/ 145 SC 145.2.6.1 P 133 L 36 # 255 Stover, David Linear Tech Corp <t< th=""></t<></th></td<>	C/ 145 SC 145.2.6.1 P 133 L 36 # 255 Stover, David Linear Tech Corp Linear Tech Corp <t< th=""></t<>
Comment Type TR Comment Status A PSE SD "IF (CC_DET != 2)"; the constant is named "CC_DET_SEQ" SuggestedRemedy Change "CC_DET" in ENTRY_SEC to "CC_DET_SEQ" Response Response Status W ACCEPT. ACCEPT. Accept	Comment Type TR Comment Status D Pres: Stoven Connection check does not address the scenario where one pairset presents a valid signature and the other pairset presents an invalid signature (that is, the PD is neither a dual-signature PD, a single-signature PD, nor "invalid on both pairsets"). The aforementioned scenario must be assigned an "invalid" connection check result. Note that this remedy still allows the PSE to fall back to a 2-pair mode and power any valid pairsets at Clause 33 power levels. SuggestedRemedy
CI 145 SC 145.2.5.7 P 129 L 7 # 94 Bullock, Chris Cisco Systems Comment Type TR Comment Status A PSE SD Exit conditions from CLASS_EV1_LCE_SEC, CLASS_EV2_SEC, and CLASS_EV3_SEC use "pse avail pwr" where they should use "pse avail pwr sec"	Modify 145.2.6.1: ".to determine if both pairsets are connected to a single-signature PD configuration, a dual-signature PD configuration, or either pairset is invalid." Modify values to in do_cxn_chk function: "single: Both pairsets are connected to a single-signature PD configuration. dual: Both pairsets are connected to a dual-signature PD configuration. invalid: Either pairset is invalid. This includes an open circuit condition on either pairset."
SuggestedRemedy For Exit condition from CLASS_EV1_LCE_SEC to MARK_EV1_SEC, replace "pse_avail_pwr" with "pse_avail_pwr_sec" Also for exit condition from CLASS_EV2_SEC to MARK_EV2_SEC, replace "pse_avail_pwr" with "pse_avail_pwr_sec"	Proposed Response Response Status Z REJECT. This comment was WITHDRAWN by the commenter.
Also for exit condition from CLASS_EV3_SEC to MARK_EV_LAST_SEC, replace "pse_avail_pwr" with "pse_avail_pwr_sec"	
Response Response Status W ACCEPT.	
CI 145 SC 145.2.6 P 133 L 22 # 24 Abramson, David Texas Instruments	
Comment Type E Comment Status A Editorial Why did "the POWER_ON state" show back up? Editorial Editorial Editorial	
SuggestedRemedy Replace with "POWER_ON"	
Response Response Status C 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 **133** Li **36**

7 145 SC 145.	2.6.1	P 133	L 37	# 308	C/ 145	SC	145.2.6.6	P 1		L 52	# 200	
/alker, Dylan		Cisco			Schindler,	Fred		Seen	Simply,	Cisco, T		
Comment Type T	Co	omment Status D		Pres: Stover2	Comment	Туре	TR	Comment Status	D		Pres: Darshan	
return when one p	airset has	onnection Check need a valid signature and th			what w existing	vas pre [.] g text,	viously acc	TODO D2.2 #245.	D2.1 #1	12 and D2.2 #24	5 and #247. The	
Credit to Mr. Stover for identifying this issue. SuggestedRemedy						"If a PSE that is performing detection using Alternative B (see 33.2.4, 145.2.6.6) determines that the impedance at the PI is greater than Ropen as defined in Table 33-12, it						
					may optionally consider the link to be open circuit and omit the tdbo_timer interval."							
Change					T 1			to the deal state of a		·	de d'arres T his	
the classification	of a PD as s ngle-signatu	on both pairsets shall specified in 145.2.7 to ure PD configuration, a	determine if both	n pairsets are	compre continu	omises ue dete	the detect	It with the state diag ion process for end- both PSEs interfere	point P	SEs by causing r	nidspan PSEs to	
					Assum	ne a mi	dspan and	a PSE both connec				
to											ection (ok) and the	
"PSEs that will de	liver power	on both pairsets shall	complete a conr	nection check prior to				everse biased bridge PSE Vdet. then the			rcuit (HZ) and the end-	
		specified in 145.2.7 to			point F	SE se	es a valid o	letection (ok).			, , , , , , , , , , , , , , , , , , , ,	
• •	•	ation, a dual-signature	PD configuration	i, or neither.	- So th	ie comb	pinations p	ossible are:				
roposed Response	Res	sponse Status Z			ok = va	alid det	ection poin	it, HZ = high impeda	ance det	ection point (Rop	pen)	
REJECT. This comment was WITHDRAWN by the commenter.					This review assumes a two point detection required by the specification. Most PSE vendors use more than two points so more combinations are possible. Either way the only way to get a valid detection is to have all points produce a valid value for Rdet. If any one point is HZ then the detection is invalid. If all points are HZ then the detection is HZ (high impedance).							
					Point	t-1	Point	-2				
					MID P	-	MID PS		. 50			
					ok HZ HZ			lidspan does class r In should backoff	iext, PS	E does detect ne	ext	
					HZ ok			lidspan should back	off			
					HZ	ok =	=> PSE do	es class next, midsp	ban may	do detection or	tdbo	
							s performe /alid detect	d when the Midspar tion.	n should	l backoff then the	end-point PSE	
					If the n	nidspar	n sees HZ	for both points then	the mid	span can continu	le detection.	
					detecti detecti	ion bloo ion volt	cks a PSE ages and t	he midspan always from completing det iming choices may p operability problem.	ection in	n the second and		
					Suggested	IRemed	ły	-				
							•	ade by D2.2 #291, a	and imp	lomant the recon		

TYPE: TR/technical required ER/editorial required GR/gener	Pa 136	Page 36 of 103	
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	Li 52	3/16/2017 10:31:47 AM

SORT ORDER: Page, Line

provided in D2.2 #247. If this comment is not complete enough for reviewers I will create a supporting presentation, schindler_02_0317.pdf. Please contact the commenter directly if you want the details on the problem or solution expanded upon.

Proposed Response Response Status Z

REJECT.

This comment was WITHDRAWN by the commenter.

C/ 145	SC 145.2.6.6	P 136	L 54	# 162
Darshan, Y	′air	Mirosemi		

Comment Type TR Comment Status D

I have reviewed David Stover file page 12 and 13 in

http://www.ieee802.org/3/bt/public/jan17/stover_02_0117_rev04.pdf and it looks that comment #245 D2.2 was not addressed fully.

The text in in "145.2.6.6 Open circuit criteria: If a PSE that is performing detection using Alternative B (see 145.2.4) determines that the impedance at the PI is greater than Ropen as defined in Table 145-10, it may optionally consider the link to be open circuit and omit the tdbo_timer interval." allows the user when the impedance is OPEN to implement backoff or not while the state machine has one choice; the state machine says if it is OPEN don't do backoff and if it is invalid do backoff which means we don't have the option to have OPEN and do backoff.

SuggestedRemedy

-See updated comment and remedy in darshan_07_0317.pdf if ready for the meeting, if not add to TODO list. OR,

-Restore option_tdbo_omit variable and it related text in the state machine as was in D2.2 or add to TODO list.

Proposed Response Response Status Z

REJECT.

This comment was WITHDRAWN by the commenter.

ers I will create a lenter directly if	C/ 145 SC 145.2.6.6 Yseboodt, Lennart	6 P 137 Philips	<i>L</i> 1	# 352						
	<i>Comment Type</i> E "Table 145-9Valid PE PI"	Comment Status A D detection signature electrica	l characteristics	<i>Editorial</i> , measured at the PSE						
[#] 162	"Table 145-10Invalid	PD detection signature electr	ical characterist	ics"						
Pres: Darshan7	SuggestedRemedy Replace by:	JCI.								
ooks that	"Table 145-9Valid PD detection signature electrical characteristics, as measured at the PSE PI"									
tection using ter than Ropen rcuit and omit	"Table 145-10Invalid PSE PI"	PD detection signature electr	ical characterist	ics, as measured at the						
mplement ays if it is have the option	Response ACCEPT.	Response Status C								
	C/ 145 SC 145.2.7	P 137	L 28	# 353						
e meeting, if not	Yseboodt, Lennart	Philips								
e meeting, ir not	Comment Type ER	Comment Status A		Editorial						
as was in D2.2	Our draft uses a mixture of "classification signature" (26x) and "class signature" (42x) to mean the same thing. Logic: 'classification' is a collection of class events. Each class event produces a class signature.									
	SuggestedRemedy Replace "classification	signature" by "class signatur	e" throughout th	e draft.						
	Response ACCEPT.	Response Status W								

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

C/ 145 SC 145.2 Yseboodt, Lennart	.7 P 137 Philips	L 43	# 35	4	C/ 145 Yseboodt, Le	SC 145.2.7	P 137 Philips	L 46	# 355
Comment Type E	Comment Status A			Editorial	Comment Ty	pe TR	Comment Status A		PSE Class
of classification sign	to each class event with a current inatures." ideal spot to mention what the req				Table 14	5-14 only for a ed for V Port_F	V Class with a current limita a pairset with a valid detection SE-2P in 145.2.4 and timing	n signature. Pola	arity shall be the same
SuggestedRemedy							to say to only go into the clas	•	0
	d sentence: es generated by the PD, indicate tl mapping of class signature to requ			PD. See	13V with Is it OK t says yes	out valid detector to apply VClass to.	ature on a pairset. This sente ction ? (answer: no, this sente s without a current limit witho	ence says yes).	
Response	Response Status C				The ICla	ss_LIM is cove	ered on page 142, line 11.		
ACCEPT.						sentence: cove ohs that deal w	ered on p 142, line 13 (polari rith that.	ty) and timing is	covered in the various
					SuggestedR	emedy			
					"The PS		r: ceed a voltage of V_valid ma ure on that pairset."	x on a pairset ur	nless the PSE has
					Response		Response Status C		
					ACCEPT	IN PRINCIPL	.E.		
					line 42 to		er classification occurs before yer classification occurs after),"		

Delete commented sentences.

Pa **137** Li **46**

C/ 145 SC 145.2.7 P 138 L 5 # 356	C/ 145 SC 145.2.7 P 138 L 20 # 256
/seboodt, Lennart Philips	Stover, David Linear Tech Corp
Comment Type ER Comment Status A PSE Class	Comment Type TR Comment Status A PSE Cla
"The Class assigned to a single-signature PD determines P Class , the minimum power level the PSE supports at the PI, as defined in Equation (145-2). For a dual-signature PD, this minimum power level is P Class-2P , defined per pairset in Equation (145-3)."	"V_PSE is the voltage at the PSE PI as defined in 145.1.3." As addressed in the paragraph above this equation, PSEs may supply 2-pair power, in which case V_PSE refers to the voltage at the PSE PI on Mode A or Mode B, whichever is greater.
All true, but all of this information is stated in the next paragraph and the one on line 26.	SuggestedRemedy
luggestedRemedy	Change "V_PSE is the voltage at the PSE PI as defined in 145.1.3." to "V_PSE is the voltage at Mode A or Mode B of the PSE PI, whichever is greater, as defined in 145.1.3."
Delete quoted text. Change on line 9:	Response Response Status C
"The minimum power output a PSE supports for a particular PD Class,"	ACCEPT IN PRINCIPLE.
by: "The minimum power output a PSE supports for the PD's assigned Class," Response Response Status C	Add TDL (David Stover): Update VPSE, VPD, and PI definitions to include 2-pair and 4-pair. Remove "at the XXX PI" from our draft.
ACCEPT.	This comment resolves comment: 228
C/ 145 SC 145.2.7 P 138 L 10 # 357	C/ 145 SC 145.2.7 P 138 L 36 # 257
seboodt, Lennart Philips	Stover, David Linear Tech Corp
Comment Type T Comment Status D PSE Class "The minimum power output a PSE supports for a particular PD Class, when powering a single-signature PD, or supplying power in 2-pair mode, is defined by Equation (145-2)."	Comment Type TR Comment Status A PSE Cla "V_PSE is the voltage at the PSE PI as defined in 145.1.3." V_PSE may be different on each Mode of a dual-signature PD, contingent upon the PD assigned Class. PSE Classical A PSE Classical A
	SuggestedRemedy
The bit about 2-pair mode is no longer needed => this was only there to weave legacy behaviour in.	Change "V_PSE is the voltage at the PSE PI as defined in 145.1.3." to "V_PSE is the voltage at the PSE PI for a pairset as defined in 145.1.3."
uggestedRemedy	Response Response Status W
"The minimum power output a PSE supports for a particular PD Class, when powering a single-signature PD, is defined by Equation (145-2)."	ACCEPT IN PRINCIPLE.
Proposed Response Response Status Z REJECT.	Change "V_PSE is the voltage at the PSE PI as defined in 145.1.3." to: "V_PSE is the voltage on the pairset at the PSE PI as defined in 145.1.3."
This comment was WITHDRAWN by the commenter.	
Why is it no longer needed? Type 3 and 4 can still operate in 2-pair mode. In that case, they don't understand single or dual signature at all. We need to define behavior for them in this case.	

Pa **138** Li **36**

C/ 145 SC 145.2.7 Stover, David	P 139 L 12 Linear Tech Corp	# 258	Cl 145 Abramson	SC 145.2.7 , David	P 139 Texas Instru	L 51 ments	# 25
Table 145-11 includes an entry for defined for single-signature PDs. A <i>SuggestedRemedy</i> Modify "0, 3 to 8" as "3 to 8"	Iso, pedantically, 0 is not a requ e Status Z		Suggested Remo Response	ison to say "Typ <i>IRemedy</i> ve text. PT IN PRINCIP	Comment Status A e 3 and Type 4" Response Status C LE.		Editoria
Cl 145 SC 145.2.7 Abramson, David Comment Type E Commen Better wording can be used now. SuggestedRemedy	P 139 L 49 Texas Instruments at Status A	# 26 PSE Class	ACCE Replac	ent 259 has the PT IN PRINCIP ce aforemention	e following response: LE. ed baseline with "PSEs that v form classification on each p		r power to a dual-
Replace "Subsequent to successful detectic	n. PSFs shall perform classific:	ation using at least one	C/ 145 Stover, Da	SC 145.2.7 vid	P 139 Linear Tech	L 51 Corp	# 259
of the following: Multiple-Event Phy Layer classification and Data Link I with: "Subsequent to successful detection	rsical Layer classification; or Mu Layer classification." on, PSEs shall perform Multiple-	ltiple-Event Physical	PSEs require	pairsets attache that will deliver ement or poor se	Comment Status A d to a dual-signature PD sha 4-pair power." I'm not sure if t entence structure. I believe th ather than anything connectin	this is an overrea his requirement i	aching technical ntends to apply to Type
classification and may perform Data Link Layer classification." Response Response Status C ACCEPT.				ce aforemention	ed baseline with "Type 3 and ure PD shall perform classific		
			Response ACCE	PT IN PRINCIP	Response Status W		
					ed baseline with "PSEs that v form classification on each p		r power to a dual-
			This c	omment resolve	s comment: 25		

Pa **139** Li **51**

C/ 145 SC 145.2.7 P 140 L 4 # 358	C/ 145 SC 145.2.7 P 140 L 27 # 260
Yseboodt, Lennart Philips	Stover, David Linear Tech Corp
Comment Type T Comment Status A Pres: Darsl	an4 Comment Type TR Comment Status A PSE Comment Status A
Table 145-12 which links DLL and assigned Class in the PSE section refers to PSEAllocatedPowerValue_mode(M). This should be Alternative, not Mode. One of the darshan_xx will fix this in the DLL secti propagate fix here.	
SuggestedRemedy	SuggestedRemedy
Replace: "PSEAllocatedPowerValue_mode(M)" => "PSEAllocatedPowerValue_Alt(X)" "Assigned Class for Mode M" => "Assigned Class for Alt(X)"	"A PSE shall return to IDLE when it successfully completes detection of a single-signatu PD, but fails to complete classification of a single-signature PD. A PSE shall return to th IDLE_* state corresponding to the appropriate Alternative when it successfully complete detection on a pairset of a dual-signature PD, but fails to complete classification on that pairset."
License to harmonize remedy with darshan_xx.	Response Response Status W
Response Response Status C	ACCEPT IN PRINCIPLE.
ACCEPT IN PRINCIPLE.	Change to:
OBE by 351	
### ### ### Comment 351 has the following response:	"A PSE shall return to IDLE if it fails to complete classification after successfully completing detection of a single-signature PD. A PSE shall return to the IDLE state corresponding to the appropriate Alternative if it successfully completes detection on a pairset of a dual-signature PD but fails to complete classification on that pairset."
	pariset of a dual-signature FD but fails to complete classification on that pariset.
ACCEPT IN PRINCIPLE.	
	Cl 145 SC 145.2.7 P 140 L 30 # 27 Abramson, David Texas Instruments
ACCEPT IN PRINCIPLE.	
ACCEPT IN PRINCIPLE.	Abramson, David Texas Instruments Comment Type E Comment Status A Ed. Use of "4-pairs" is wrong through draft. The hyphen should only be used when "4-pair" used as an adjective (ex: 4-pair power). If "pair" or "pairs" is used as a noun, there should active the should be used as a noun, there should be used as a noun, there should be used as a noun, the should be used by the non-should be used as a noun, the should be used by the non-should be used by the no-should be used by the non-should be used b
ACCEPT IN PRINCIPLE.	Abramson, David Texas Instruments Comment Type E Comment Status A Ed Use of "4-pairs" is wrong through draft. The hyphen should only be used when "4-pair" used as an adjective (ex: 4-pair power). If "pair" or "pairs" is used as a noun, there should be no hyphen. Ed

Pa **140** Li **30**

C/ 145 SC Stover, David	C 145.2.7.1	P 140 Linear Tech Co	L 40	# 261	<i>Cl</i> 145 Yseboodt, L	SC 145.2.7.1 ennart	P 14 Philips		#	359
Comment Type "Classificati		Comment Status A CLE1." T_CLE1 no longer e>	tists in Clause 14	PSE Class 5.	Comment T Underse	<i>ype</i> E core after last lir	Comment Status	Α		Editorial
SuggestedRem Strike "T_C	-				SuggestedF Fix.	Remedy				
Response ACCEPT.		Response Status W			Response ACCEP	т.	Response Status	с		
C/ 145 SC Stover, David	C 145.2.7.1	P 140 Linear Tech Co	L 44	# 262	<i>Cl</i> 145 Schindler, F	SC 145.2.7.1		0 <i>L</i> 54 Simply, Cisco, T	#	201
single-signa This whole s and mark er and the clas regardless of power exce here.	Es shall prov ature PDs un section sugg vents, which ss reset func of available p eds available	Comment Status A vide a maximum of four class less a class reset event clear jests Type 3 and 4 PSEs can is inconsistent with the imple- tion allow any PSE to issue u power, provided the PSE issue e power. I believe there is no	s the class and m issue an unlimite mentation in PSE up to 3 class and r es a class reset e	hark event counts." d amount of class SD. class_probe nark events, went when allocated	SuggestedF Remove Response ACCEP	end of the existin Remedy the underscore T IN PRINCIPL	Comment Status ng text ". event counts e of this is text in the o Response Status E. mark that can be clea	" there appears to document. W	·	<i>Editorial</i> nderscore.
	ess a class re	eset event clears the class an Dual, Type 4/Single, Type 4/D		nts." in 4 places:	<i>Cl</i> 145 Yseboodt, L	SC 145.2.7.1	P 14 Philips		#	360
Response ACCEPT.		Response Status C				ning specificatio	Comment Status	e CLASS_EV1_LCE,	_	- '
C/ 145 SC Jones, Chad	C 145.2.7.1	<i>P</i> 140 Cisco	L 54	# 172			RI, CLASS_EV1_LCE ID_SEC shall be T LC		LCE_4PID_	_PRI, 01
Comment Type		Comment Status A hanging around (though I ca	n't select it in the	Editorial	apply V	Class.	hs for T_CLE2 and T	CLE3, this one doesn	`t specify we	e need to
some Fram		hanging around (mough rea			SuggestedF	-				
SuggestedRemedy delete last character of the page. Response Response Status C				LCE_PI CLASS	the PSE is in the RI, CLASS_EV1	e state CLASS_EV1_ 1_LCE_SEC, CLASS_ ID_SEC, it shall provic tion."	EV1_LCE_4PID_PR	l, or		
ACCEPT.					0	e "the PSE shall' ne 2) as well.	" to "it shall" on line 43	3, 50, and 53 (and on	ce more on f	the next
					Response ACCEP	T.	Response Status	с		
		d ER/editorial required GR/g patched A/accepted R/reject				U/unsatisfied 2	Z/withdrawn	Pa 141 Li 28		age 42 of 103 /16/2017 10:31:47 AM

SORT ORDER: Page, Line

C/ 145 SC 145.2.7.1	P 141	L 47	# 263	-	45.2.7.2	<i>P</i> 143	L 29	# 166
Stover, David	Linear Tech Cor	р		Darshan, Yair		Mirosemi		
Comment Type T Com	ment Status A		PSE Class	Comment Type	TR	Comment Status D		Pres: Darshan1
As agreed, when using do_clas CLASS_EV1_LCE, etc, may be			2S			ower is calculated using any w as defined in Table 145-1		vith a width in the
SuggestedRemedy				SuggestedRemedy	,			
Beneath paragraph "In all CLAS "The timing specification for PS T CLE2 for all classification ev	SEs in the state DO_CL			See darshan_1 Proposed Respons		df <i>Response Status</i> Z		
-	onse Status C			REJECT.				
ACCEPT.				This comment	was WITH	IDRAWN by the commenter	r.	
C/ 145 SC 145.2.7.1 Abramson, David	P 141 Texas Instrumer	L 53 hts	# 28	C/ 145 SC 14 Yseboodt, Lennart	45.2.8	P 144 Philips	L 36	# 363
Comment Type E Com. No reason for a stand alone se other (non-last) mark events. SuggestedRemedy	ment Status A ntence anymore, MARK	C_EV2 can be cor	<i>Editorial</i> nbined with all	Table 145-16, u The values of I	LIM-2P ar	Comment Status D work now seems to have si e the result of simulation an more convenient values.		Pres: Darshan1
Remove sentence and add MA	RK EV2 to list of event	s on line 49.		SuggestedRemedy	,			
Response Response Response	onse Status C			Class 5 from 0. Class 6 from 0. Class 7 from 0.	.562 to 0.6 .702 to 0.7 .829 to 0.8	72 33		
C/ 145 SC 145.2.7.1 Yseboodt, Lennart	P 142 Philips	L 25	# 361	Class 8 from 0. Proposed Respons				
	·			REJECT.	e	Response Status Z		
Comment Type E Com. " then transition to either the C It appears that there are two un			Editorial _SEC"		was WITH	IDRAWN by the commenter	r.	
SuggestedRemedy Remove underscores.								
Response Respo ACCEPT.	onse Status C							

Pa **144** Li **36**

<i>Cl</i> 145 <i>SC</i> 145.2.8 Yseboodt, Lennart	P 144 Philips	L 36	# 362	C/ 145 Stover, Dav	SC 145.2.8 /id	P 145 Linear Te	L 9 ch Corp	# 264
Comment Type TR	Comment Status D		Pres: Darshan10	Comment 7		Comment Status A		PSE Power
	ce work now seems to have s			Per Ta	ble 145-24, Cla	ss 0 is an undefined "requ	uested Class" for sir	ngle-signature PDs
	-unb are the result of simulation to more convenient values.	on and curve fitting.		Suggested	Remedy			
	nore unbalance margin.					re PD, Class 0 to 4" to "S	ingle-signature PD,	Class 1 to 4" in all
SuggestedRemedy				instand	es.			
Class 5 from 0.55 to 0				Response ACCEF	PT IN PRINCIP	Response Status C		
Class 6 from 0.682 to Class 7 from 0.781 to Class 8 from 0.932 to	0.8			Modify	"Single-signatu	re PD, Class 0 to 4" to "S	ingle-signature PD,	Class 1 to 4"
Proposed Response	Response Status Z			fix for T	Table 145-16, ite	em 5, 6, 7, 11, 18, 19		
REJECT.				Cl 145	SC 145.2.8	P 145	L 15	# 265
This comment was W	THDRAWN by the commenter			Stover, Dav	/id	Linear Te	ch Corp	
	,		"	Comment 7	Type TR	Comment Status D		PSE Power
C/ 145 SC 145.2.8 Darshan, Yair	P 144 Mirosemi	L 38	# 146	"Single	-signature PD,	nconsistent between sing Class 0 to 4" vs "Type 3 d	dual-signature PD".	5
Comment Type T	Comment Status D		Editorial			scribed as ".per the assigr	led Class	
Editor to explain what	was the change in item 5, Clas	s 5 in Table 33-16		Suggested Modify	-	ype 3 dual-signature PD"	to "Dual-signature I	PD Class 1 to 4": "Type
SuggestedRemedy						o "Dual-signature PD, Cla		
Editor?				Proposed F	Response	Response Status Z		
Proposed Response REJECT.	Response Status Z			REJEC			optor	
This comment was W	THDRAWN by the commenter					THDRAWN by the comm	L 45	# 004
C/ 145 SC 145.2.8	P 144	L 39	# 168	C/ 145 Yseboodt, I	SC 145.2.8 Lennart	P 145 Philips	L 43	# 364
Darshan, Yair	Mirosemi			Comment 1	Tvpe TR	Comment Status A		PSE Power
Comment Type TR Increasing Icon-2P_ur	Comment Status D b, Ipeak_2P_unb, ILIM-2P for	the next highest po	Pres: Darshan10 ssible integer	ILIM-2F	P values in Tabl	le 145-16 are listed per C s 5 is a different thing for	· · · · ·	
SuggestedRemedy			-	Suggested	Remedy			
darshan_10_0117.pdf				In item and ad	11, Table 145- d a row at the b	16, change "Class 5" to ": ottom for "Dual-signature	Single-signature PD PD, Class 5" with v	, Class 5" /alue 0.99.
Proposed Response	Response Status Z			Response		Response Status C		
REJECT.				ACCEF	PT.	-		
This comment was W	THDRAWN by the commenter			Resolv	e in the same s	tyle as was done for item	7.	
TVDE: TP/toobnical requir	ed ER/editorial required GR/g	ionoral required T/	ochnical Eladitorial Cl	nonoral		ח	145	Page 44 of 103
	spatched A/accepted R/reject						a 145	Faye 44 01 103

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn Li 45 3/16/2017 10:31:47 AM SORT ORDER: Page, Line

X 145 SC 145.2.8 P 146 L 7 # 173	C/ 145 SC 145.2.8 P146 L 51 # 110
ones, Chad Cisco	Darshan, Yair Mirosemi
Comment Type E Comment Status R PSE Powe	er Comment Type TR Comment Status A PSE Powe
Table 145-16, item 13. why don't we list 60W as the max number for Ptype for Type 3? I'm sure there's some reason I'm forgetting. If there is reject me and leave the reason in the remedy.	The text in note (a) "Unbalance at Class 4 is not restricted. The ICon-2P-unb value is higher than the value for Class 5." is not complete. Missing text that explains that this is correct for class 5 when operating over 4-pairs.
SuggestedRemedy	SuggestedRemedy
add '60' for item 13, max for type 3.	Change from "aUnbalance at Class 4 is not restricted. The ICon-2P-unb value is higher
Response Response Status C REJECT.	than the value for Class 5." To "aUnbalance at Class 4 is not restricted. The ICon-2P-unb value is higher than the value for Class 5 PSEs operating in 4-pair mode."
That would require limiting Type 3 to 60W when it needs to source 60W for class 6.	Response Response Status C
7 145 SC 145.2.8 P 146 L 10 # 29	ACCEPT IN PRINCIPLE.
bramson, David Texas Instruments	Change from "aUnbalance at Class 4 is not restricted. The ICon-2P-unb value is higher than the value for Class 5."
Comment Type E Comment Status A Editoria PSE Type entry for item 14 is centered in column, should be left aligned.	a/ to:
SuggestedRemedy See comment.	"aThe ICon-2P-unb value is higher than the value for Class 5 as unbalance for Class 4 is not restricted."
Response Response Status C ACCEPT.	C/ 145 SC 145.2.8.2 P 147 L 21 # 366 Yseboodt, Lennart Philips
C/ 145 SC 145.2.8 P 146 L 19 # 365 / seboodt, Lennart Philips	Comment Type E Comment Status D Editoria "power on state" should be "POWER_ON state".
Comment Type E Comment Status A Editoria Table 145-16 violates IEEE Style Guide 13.3.1:	al SuggestedRemedy Per comment.
"The same units of measure shall be used throughout each column; ohms shall not be combined with megohms, millimeters with centimeters, or seconds with minutes."	Proposed Response Response Status Z REJECT.
SuggestedRemedy	
Offending items: Item 2 to be expressed in V Item 22 to be expressed in ms	This comment was WITHDRAWN by the commenter.
Response Response Status C	
Response 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 **147** Li **21** Page 45 of 103 3/16/2017 10:31:47 AM

C/ 145 SC 145.2.4 Darshan, Yair	8.5 <i>P</i> 147 Mirosemi	L 49	# 150	C/ 145 SC 145.2.8.5.1 Yseboodt, Lennart	P 150 Philips	L 23	# 368
	Comment Status D notinuous output current capabi due to the changes made in D2		Pres: Darshan2 R_ON state needs	Comment Type E Com Subclause 145.2.8.5.1 does n 145.2.8.	nment Status D ot belong under 145.	2.8.5, it should be	<i>Editoria</i> e a subclause under
SuggestedRemedy Implement darshan_	_02_0317.pdf			SuggestedRemedy Bump 145.2.8.5.1 one level up			
Proposed Response REJECT.	Response Status Z			Proposed Response Resp REJECT.	oonse Status Z		
This comment was	WITHDRAWN by the comment	ter.		This comment was WITHDRA	WN by the comment	ter.	
C/ 145 SC 145.2.8 Yseboodt, Lennart	8.5 <i>P</i> 148 Philips	L 46	# 367	Cl 145 SC 145.2.8.5.1 Schindler, Fred	P 150 Seen Simply	<i>L</i> 32 /, Cisco, T	# 202
	port the AC current waveform p	arameter iPeak-	ZF, defined in Equation	The existing text,	tive registeres webst		by DDCC manad
(145.2.8.5.1), on each Reference is not to a SuggestedRemedy Change to: "The PSE shall supp (145-10), on each	ch" equation but to paragraph. port the AC current waveform p ."			"The PSE PI pair-to-pair effect RPSE_min ensures that along connectors) and the PD, the p exceed ICon-2P-unb as define The word ensure should not b SuggestedRemedy	y with any other parts airset with the highes ed in Table 145-16 du	of the system, i.e st current includin uring normal oper	e. channel (cables and ng unbalance does not
(145.2.8.5.1), on each Reference is not to e SuggestedRemedy Change to: "The PSE shall supp	ch" equation but to paragraph. port the AC current waveform p			"The PSE PI pair-to-pair effect RPSE_min ensures that along connectors) and the PD, the p exceed ICon-2P-unb as define The word ensure should not b SuggestedRemedy Replace the called out text wit "The pairset with the highest of	y with any other parts airset with the highes ad in Table 145-16 du e used in an IEEE sp h, current including unba	of the system, i.e st current includin uring normal oper pecification. alance does not e	e. channel (cables and ag unbalance does not ating conditions."
(145.2.8.5.1), on each Reference is not to a SuggestedRemedy Change to: "The PSE shall supp (145-10), on each Response	ch" equation but to paragraph. port the AC current waveform p ." <i>Response Status</i> C			"The PSE PI pair-to-pair effect RPSE_min ensures that along connectors) and the PD, the p exceed ICon-2P-unb as define The word ensure should not b SuggestedRemedy Replace the called out text wit	with any other parts airset with the highes of in Table 145-16 du e used in an IEEE sp h, surrent including unba g normal operating c e is determined by RF	of the system, i.e st current includin uring normal oper pecification. alance does not e conditions if the Pa	e. channel (cables and ag unbalance does not ating conditions." exceed ICon-2P-unb, as SE PI pair-to-pair
(145.2.8.5.1), on each Reference is not to a SuggestedRemedy Change to: "The PSE shall supp (145-10), on each Response ACCEPT. C/ 00 SC 145.2.4 Yseboodt, Lennart Comment Type TR The calculation and be tuned based on F	ch" equation but to paragraph. bort the AC current waveform p ." <i>Response Status</i> C 8.5 <i>P</i> 149 Philips <i>Comment Status</i> D definition of IPeak-2P-unb is commented by the status of the s	barameter IPeak- L 36	2P, defined in Equation # 309 Pres: Yseboodt2	"The PSE PI pair-to-pair effect RPSE_min ensures that along connectors) and the PD, the p exceed ICon-2P-unb as define The word ensure should not b <i>SuggestedRemedy</i> Replace the called out text wit "The pairset with the highest of defined in Table 145-16, durin effective resistance unbalance of the system (i.e. channel and	with any other parts airset with the highes of in Table 145-16 du e used in an IEEE sp h, surrent including unba g normal operating c e is determined by RF	of the system, i.e st current includin uring normal oper pecification. alance does not e conditions if the Pa	e. channel (cables and ag unbalance does not ating conditions." exceed ICon-2P-unb, as SE PI pair-to-pair
(145.2.8.5.1), on each Reference is not to a SuggestedRemedy Change to: "The PSE shall supp (145-10), on each Response ACCEPT. C/ 00 SC 145.2.4 Yseboodt, Lennart Comment Type TR The calculation and be tuned based on F The purpose of this SuggestedRemedy	ch" equation but to paragraph. bort the AC current waveform p ." <i>Response Status</i> C 8.5 <i>P</i> 149 Philips <i>Comment Status</i> D definition of IPeak-2P-unb is co Rchan.	barameter IPeak- L 36	2P, defined in Equation # 309 Pres: Yseboodt2	"The PSE PI pair-to-pair effect RPSE_min ensures that along connectors) and the PD, the p exceed ICon-2P-unb as define The word ensure should not b SuggestedRemedy Replace the called out text wit "The pairset with the highest of defined in Table 145-16, durin effective resistance unbalance of the system (i.e. channel and Response Resp ACCEPT IN PRINCIPLE.	y with any other parts airset with the highes d in Table 145-16 du e used in an IEEE sp h, current including unba g normal operating c is determined by RF d the PD)."	of the system, i.e st current includin uring normal oper pecification. alance does not e conditions if the Pa	e. channel (cables and ag unbalance does not ating conditions." exceed ICon-2P-unb, as SE PI pair-to-pair
(145.2.8.5.1), on each Reference is not to a SuggestedRemedy Change to: "The PSE shall supp (145-10), on each Response ACCEPT. C/ 00 SC 145.2.4 Yseboodt, Lennart Comment Type TR The calculation and be tuned based on F The purpose of this SuggestedRemedy	ch" equation but to paragraph. bort the AC current waveform p <i>Response Status</i> C 8.5 <i>P</i> 149 Philips <i>Comment Status</i> D definition of IPeak-2P-unb is con Rchan. is unclear and seems redundant	barameter IPeak- L 36	2P, defined in Equation # 309 Pres: Yseboodt2	"The PSE PI pair-to-pair effect RPSE_min ensures that along connectors) and the PD, the p exceed ICon-2P-unb as define The word ensure should not b SuggestedRemedy Replace the called out text wit "The pairset with the highest of defined in Table 145-16, durin effective resistance unbalance of the system (i.e. channel and Response Resp ACCEPT IN PRINCIPLE. OBE by 111	with any other parts airset with the highes ad in Table 145-16 du e used in an IEEE sp h, surrent including unba g normal operating c is determined by RF d the PD)." bonse Status C	of the system, i.e st current includin uring normal oper pecification. alance does not e conditions if the Pa	e. channel (cables and ag unbalance does not ating conditions." exceed ICon-2P-unb, as SE PI pair-to-pair

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Page, Line Pa **150** Li **32** Page 46 of 103 3/16/2017 10:31:47 AM C/ 145 SC 145.2.8.5.1 P 150 # 275 C/ 145 P 151 L 29 L 33 SC 145.2.8.5.1 # 369 Pacific Northwest Nati Tuenge, Jason Yseboodt, Lennart Philips Comment Type Е Comment Status A Editorial Comment Type ER Comment Status A Pres: Darshan1 To align with subclause 145.1.3, and there should be a comma after "i.e.". Table 145-17 defines Rload(min/max), RPair_PD(min/max) and RCh_unb(min/max). Rload is then redefined one page later in Eq 145-16 and 145-17. SuggestedRemedy Change "the system, i.e. channel" to "the power system, i.e., channel". Rload = RCH unb + RPair PD. Response Response Status C This results in Table 145-17 to be very cramped horizontally. ACCEPT. SuggestedRemedv - Remove the Rload min/max columns from Table 145-17 C/ 145 SC 145.2.8.5.1 P 151 L 16 # 203 - Change reference from Table 145-17 to Equation 145-16 and 145-17 on: Seen Simply, Cisco, T Schindler, Fred * p151, l24 ER Comment Status D * p151. |49 Comment Type Editorial - Delete the first sentence on p152, I5 Existing text, - Move the definitions of RPair_PD and RCh_unb to a proper "where" clause below "Common mode effective resistance is the resistance of the two wires and their Equations 145-16 and 145-17. components in a pair of the same polarity connected in parallel." Can be improved by using pairset and restructuring the sentence. Response Response Status C SuagestedRemedv ACCEPT IN PRINCIPLE. Replace the called out sentence with. OBE by 111 "Common mode resistance is the parallel resistance of all conductors and in-series components for pairs of the same polarity in both pairsets." ### ### ### Proposed Response Response Status Z PROPOSED REJECT. Comment 111 has the following response: ACCEPT IN PRINCIPLE. This comment was WITHDRAWN by the commenter. adopt darshan_01_0317Rev008.pdf This is wrong. As it is used, the common mode resistance is the parallel combination within one pairset. Not, the parallel combination of both pairsets.

IEEE 802.3bt D2.3 4-Pair PoE 3rd Working Group recirculation ballot comments

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

Pa **151** Li **29** Page 47 of 103 3/16/2017 10:31:47 AM

C/ 145 SC 145.2.8.5.1 P 151 L 30 # 111 Darshan, Yair Mirosemi	C/ 145 SC 145.2.8.5.1 P 151 L 33 # 152 Darshan, Yair Mirosemi			
Comment Type TR Comment Status A Pres: Darshan1 Table 145-17 and other related text. We need to keep the following concept for the unbalance variable names to keep consistency: Rpse_min/max is PSE PI effective resistance. RPD_min/max is PSE PI effective resistance. RPD_min/max is the PD PI effective resistance (Currently it is Rpair_pd_min/max). Nominal PI resistances will be: Rpair_PSE_min/max and Rpair_PD_min/max. (Rpd is not used anywhere. We have only Rpd_d in detection section.) SuggestedRemedy See darshan_01_0317.pdf	Comment Type TR Comment Status A Pres: Darshan10 The significant digits of the resistance numbers in Table 145-17 need to be update to meet 1%/TBD resistance range in order meet Icon-2P_unb requirements within +/-5mA range SuggestedRemedy SuggestedRemedy Add to Yair TODO list if not ready for the meeting. Response Response Status C ACCEPT IN PRINCIPLE. C			
Response Response Status C ACCEPT IN PRINCIPLE. adopt darshan_01_0317Rev008.pdf	Add to TDL (Yair): Table 145-17: update to meet 1%/TBD resistance range in order meet lcon-2P_unb requirements within +/-5mA range This comment resolves comment: 129 C/ 145 SC 145.2.8.5.1 P 152 L 41 # 370			
This comment resolves comments: 131, 181, 202, 214, 333, 369	Yseboodt, Lennart Philips			
C/ 145 SC 145.2.8.5.1 P 151 L 33 # 129 Darshan, Yair Mirosemi Comment Type TR Comment Status A Pres: Darshan10 Table 145-17 contain resistance values of actual test verification model. This values need to be rounded to 1% in order that Icon-2P_unb will be kept with accuracy of +/-5mA/TBD. Current of Damachy	Comment Type ER Comment Status A Editorial Figure 145-22 is titled "PSE PI unbalance specification and E2EP2PRunb" This impossible abbreviation Editorial SuggestedRemedy Replace by "PSE PI unbalance specification and system resistance unbalance" Editorial			
SuggestedRemedy See darshan_10_0317.pdf. If not ready for the meeting add to Yair TODO.	Also remove the two occurences of this abbreviation in Annex 145A and replace by remed text.			
Response Response Status C ACCEPT IN PRINCIPLE.	Response Response Status C ACCEPT IN PRINCIPLE.			
OBE by 152	ALSO			
### ### Comment 152 has the following response: ACCEPT IN PRINCIPLE.	TDL (Yair): check correct usage of these terms and provide new definition(s)			
Add to TDL (Yair): Table 145-17: update to meet 1%/TBD resistance range in order meet Icon-2P_unb requirements within +/-5mA range				

Pa **152** Li **41**

In the evaluation method, twice a reference is made to Rload, which is undefined. SuggestedRemedy Change a) and f) as follows: " ") Use R load_min and R load_max from Table 145-17 for low channel resistance conditions: " ") Use R load_min and R load_max from Table 145-17 for low channel resistance conditions: " ") Repeat steps b) through e) for R load_min and R load_max from Table 145-17 for high channel resistance conditions: " Response Response Status W ACCEPT. C(145 SC 1452.8.6 P 153 L 3 # 30 Abramson, David Texas Instruments Camment Type ER Comment Status A Editorial Sentence has issues after removal of Type 1 and 2 text. SuggestedRemedy Replace POWER_UP occurs on each pairset between the PSE's transition to the POWER_UP state on that pairset and ether the expiration of Tinush-2P. Response Response Status C ACCEPT IN PRINCIPLE. "POWER_UP occurs on each pairset between the PSE's transition to the POWER_UP state on that pairset and the expiration of Tinush-2P. Response Response Status C ACCEPT IN PRINCIPLE. "POWER_UP occurs on each pairset between the PSE's transition to the POWER_UP state on that pairset and the expiration of Tinush-2P. Response Response Status C ACCEPT IN PRINCIPLE. "POWER_UP occurs on each pairset between the PSE's transition to the POWER_UP state on that pairset and the expiration of Tinush-2P. Response Response Status C ACCEPT IN PRINCIPLE. "POWER_UP occurs on each pairset between the PSE's transition to the POWER_UP state on that pairset and the expiration of Tinush-2P. Response Response Status C ACCEPT IN PRINCIPLE. "POWER_UP occurs on each pairset between the PSE's transition to the POWER_UP state on that pairset and the expiration of Tinush-2P. Response Response Status C ACCEPT IN PRINCIPLE. "POWER_UP occurs on each pairset between the PSE's transition to the POWER_UP state on that pairset and the expiration of Tinush-2P. Response Response Status C ACCEPT IN PRINCIPLE. "Sourd Beam Free Comment Status A Editorial "T_Innush-2P' variable name has improper capitalization. SuggestedRem										
Comment Type ER Comment Status A Unbalance In the evaluation method, twice a reference is made to Rload, which is undefined. SuggestedRemedy Comment Type TR Comment Status A Change a) and f) as follows: "b) Use R load_min and R load_max from Table 145-17 for low channel resistance conditions." The period to ad_min and R load_max from Table 145-17 for low channel resistance conditions." Figure 145-24. Short circuit region starts at the lowerbound template is for Figure 145-25. This is clear definition for where short circuit region. Response Response Status W ACCEPT. Comment Type ER Comment Status A Comment Type ER Comment Status Editorial Sentence has issues after removal of Type 1 and 2 text. SuggestedRemedy C ACCEPT IN PRINCIPLE. "Replace "POWER_UP occurs on each pairset between the PSE's transition to the POWER_UP state on that pairset and the expiration of Tinush-2P." Editorial In igures 145-23, change "short circuit" to "current transient" "POWER_UP occurs on each pairset between the PSE's transition to the POWER_UP state on that pairset and the expiration of Tinush-2P." In igures 145-23, dial dial dial dial dial dial dial dial	C/ 145	SC 145.2.8.5.1	P 152	L 45	# 371	C/ 145 SC 1	45.2.8.8	P 155	L 12	# 113
In the evaluation method, twice a reference is made to Rload, which is undefined. SuggestedRenedy Change a) and f) as follow:: "a) Use R load_min and R load_max from Table 145-17 for low channel resistance conditions." "D Repeat steps b) through e) for R load_min and R load_max from Table 145-17 for high channel resistance conditions." "Response Response Status W ACCEPT. Z1 145 SC 1452.8.6 P153 L3 # 30 Zomment Type ER Comment Status A Editorial SuggestedRenedy Replace "POWER_UP occurs on each pairset between the PSE's transition to the POWER_UP state on that pairset and either the expiration of Tinush-2P." Z1 145 SC 1452.8.6.1 P154 L23 # 286 SuggestedRenedy Replace "POWER_UP occurs on each pairset between the PSE's transition to the POWER_UP state on that pairset and either the expiration of Tinush-2P." Z1 145 SC 1452.8.6.1 P154 L23 # 286 SuggestedRenedy Replace "POWER_UP occurs on each pairset between the PSE's transition to the POWER_UP state on that pairset and the expiration of Tinush-2P." Z1 145 SC 1452.8.6.1 P154 L23 # 286 Sommern Type E Comment Status A Editorial T_Inush-2P' variable name has improper capitalization. SuggestedRenedy C1 145 SC 1452.8.6.1 P154 L23 # 286 Sommern Type E Commont Status A Editorial T_Inush-2P' variable name has improper capitalization. SuggestedRenedy C1 145 SC 1452.8.6.1 P154 L23 # 286 Sommern Type E Comment Status A Editorial T_Inush-2P' variable name has improper capitalization. SuggestedRenedy C1 145 SC 1452.8.6.1 P154 L23 # 286 Sommern Type E Comment Status A Editorial T_Inush-2P' variable name has improper capitalization. SuggestedRenedy Change to T_Inush-2P."	'seboodt, L	ennart	Philips			Darshan, Yair		Mirosemi		
SuggestedRemedy Change a) and f) as follows: "a) Use R koad_min and R load_max from Table 145-17 for high channel resistance conditions." "1) Repeat steps b) through e) for R load_max from Table 145-17 for high channel resistance conditions." Response Response Status W ACCEPT. Comment Status A Editorial Continent Type ER Comment Status A Editorial Sentence has issues after removal of Type 1 and 2 text. SuggestedRemedy Response Status C Response Response Status C ACCEPT in UP state on that pairset dar PSE to hore to pairset of a PSE hore to pairset of a PSE to hore pairset of a PSE hore to pairset of a PSE hore to pairset of a PSE hore to pairset of a PSE hore the pairset of a PSE hore the pairset of a PSE hore to pairset of a PSE hore the pairset of a PSE hore to pairset of a PSE hore to pairset of a PSE hore the pairset of a PSE hare to main and Boo hare to pairset of a PSE hore the pairset of a PSE hore the pairset of a PSE hore tho pairset of a PSE hore tho pairset of a P	Comment Ty	vpe ER	Comment Status A		Unbalance	Comment Type	TR	Comment Status A		Pres: Darshan6
SuggestedRemedy Change a) and h as follows: "a) Use R load_min and R load_max from Table 145-17 for low channel resistance conditions." "a) Use R load_min and R load_max from Table 145-17 for low channel resistance conditions." marked short circuit. This is incorrect. Short circuit region starts at the lowerbound templates in Figure 145-24 and Figure 33-25. Power page 154 line 37: "A PSE may remove power from the PI if the PI current mesors or exceeds the "PSE lowerbound template" in Figure 145-24 and 145-25. This is clear definition for where short circuit region. Response Response Status W ACCEPT. Texas Instruments Editorial Comment Type ER Comment Status A Editorial Sentence has issues after removal of Type 1 and 2 text. SuggestedRemedy Response Status C ACCEPT IN PRINCIPLE. "POWER_UP occurs on each pairset between the PSE's transition to the POWER_UP state on that pairset and the expiration of Tinush-2P." In figures 145-24 and 145-25, change "short circuit" to "current transient" Wether POWER_UP occurs on each pairset between the respiration of Tinush-2P." In figures 145-24 and 145-25, change "short circuit" to "current transient" POWER_UP occurs on each pairset between the respiration of Tinush-2P." In figures 145-24 and 145-25, change "short circuit" to "current transient" VOWER_UP occurs on each pairset between the respiration of Tinush-2P." Editorial "T_Inush-2P' variaba	In the ev	aluation method	, twice a reference is made	e to Rload, whic	n is undefined.					
Change a) and f) as follows: in the field and initial fold_main from Table 145-17 for tow channel resistance conditions." template. Up to TLIM-2P_min, it starts at LLIM-2P_min and above it. It is legacy error or conditions. '') Neepeat steps b) through e) for R load_main and R load_max from Table 145-17 for high channel resistance conditions." template. Up to TLIM-2P_min, it starts at LLIM-2P_min and above it. It is legacy error exceeds the "PSE lowerbound template" in Figure 145-24 and Figure 33-25. Power second template' in Figure 145-24 and Figure 33-25. Power second template' in Figure 145-24 and 145-25. This is clear definition for where short circuit region. Response Response Status W ACCEPT. Comment Status A Editorial Comment Type ER Comment Status A Editorial Sentence has issues after removal of Type 1 and 2 text. Editorial Suggested/Remedy Response Status C Response Response Status C ACCEPT IN PRINCIPLE. *POWER_UP occurs on each pairset between the PSE's transition to the POWER_UP state on that pairset and the expiration of Tinush-2P.* with: POWER_UP occurs on each pairset between the PSE's transition to the POWER_UP state on that pairset and the expiration of Tinush-2P.* *OWER_UP occurs on each pairset between the transition to the POWER_UP state on that pairset and the expiration of Tinush-2P.* *OWER_UP occurs on each pairset between the transition to the POWER_UP state on that pairset and the expiration of Tinush-2P.*	SuggestedR	Remedy								
ACCEPT. SuggestedRemedy C1 145 SC 1452.8.6 P 153 L 3 # 30 Abramson, David Texas Instruments SuggestedRemedy Sentence has issues after removal of Type 1 and 2 text. Editorial SuggestedRemedy Response Status C ACCEPT IN PRINCIPLE. "POWER_UP state on that pairset and either the expiration of Tinrush-2P." In figures 145-25, change "short circuit" to "current transient" Response Response Status C ACCEPT IN PRINCIPLE. *POWER_UP occurs on each pairset between the PSE's transition to the POWER_UP state on that pairset and the expiration of Tinrush-2P." "POWER_UP occurs on each pairset between the transition to the POWER_UP state on that pairset and the expiration of Tinrush-2P." "POWER_UP occurs on each pairset between the transition to the POWER_UP state on that pairset and the expiration of Tinrush-2P." "POWER_UP occurs on each pairset between the transition to the POWER_UP state on that pairset and the expiration of Tinrush-2P." "C1 145 SC 145.2.8.6.1 P 154 L 23 # 266 Stover, David Linear Tech Corp Editorial "T_inrush-2P" variable name has improper capitalization. SuggestedRemedy Change to "T_Inrush-2P" Editorial To Tarking Pairset Pai	"a) Use condition "f) Repe	R load_min and l ns." at steps b) throug	R load_max from Table 14 gh e) for R load_min and R			template. Up to page 154 line 3 exceeds the "F be removed fro upperbound te	o TLIM-2F 37: "A PS PSE lower om a pairs mplate" ir	P_min, it starts at ILIM-2P_m E may remove power from th bound template" in Figure 14 set of a PSE before the pairs	in and above it. ne PI if the PI cu 45-24 and Figur set current excee	It is legacy error. See urrent meets or e 33-25. Power shall eds the "PSE
Cl 145 SC 145.2.8.6 P 153 L 3 # 30 Abramson, David Texas Instruments Gashan_06_0317,pdf Abramson, David Texas Instruments Repose Response Status C Sentence has issues after removal of Type 1 and 2 text. SuggestedRemedy Replace "POWER_UP occurs on each pairset between the PSE's transition to the POWER_UP state and either the expiration of Tinrush-2P." In figures 145-24 and 145-25, change "short circuit" to "current transient" Response Response Status C ACCEPT IN PRINCIPLE. "POWER_UP occurs on each pairset between the PSE's transition to the POWER_UP state on that pairset and the expiration of Tinrush-2P." In figures 145-24 and 145-25, change "short circuit" to "current transient" Response Response Status C ACCEPT IN PRINCIPLE. "POWER_UP occurs on each pairset between the PSE's transition to the POWER_UP state on that pairset and the expiration of Tinrush-2P." Intear Tech Corp Cl 145 SC 145.28.6.1 P 154 L 23 # 206 Stover, David Linear Tech Corp Editorial "T_Inrush-2P" variable name has improper capitalization. SuggestedRemedy Change to "T_Inrush-2P" Comment Status A Editorial	Response		Response Status W			short circuit re	gion.			
Cl 145 SC 145.2.8.6 P 153 L 3 # 30 Abramson, David Texas Instruments Texas Instruments Comment Type ER Comment Status A Sentence has issues after removal of Typ 1 and 2 text. Editorial SuggestedRemedy Replace "POWER_UP occurs on each pairset between the PSE's transition to the POWER_UP state on that pairset and the expiration of Tinrush-2P." In figures 145-24 and 145-25, change "short circuit" to "current transient" Response Response Status C ACCEPT IN PRINCIPLE. POWER_UP occurs on each pairset between the transition to the POWER_UP state on that pairset and the expiration of Tinrush-2P." In figures 145-24 and 145-25, change "short circuit" to "current transient" Response Response Status C ACCEPT IN PRINCIPLE. C "POWER_UP occurs on each pairset between the transition to the POWER_UP state on that pairset and the expiration of Tinrush-2P." CI 145 SC 145.2.8.6.1 P154 L23 L104 Editorial "T_Inrush-2P" variable name has improper capitalization. SuggestedRemedy Change to "T_Inrush-2P"	ACCEP	т.								
Comment Type ER Comment Status A Editorial Sentence has issues after removal of Type 1 and 2 text. SuggestedRemedy Replace "POWER_UP occurs on each pairset between the PSE's transition to the POWER_UP occurs on each pairset between the PSE's transition to the POWER_UP state on that pairset and the expiration of Tinrush-2P. Response Response Status C ACCEPT IN PRINCIPLE. "POWER_UP occurs on each pairset between the transition to the POWER_UP state on that pairset and the expiration of Tinrush-2P." C/ 145 SC 1452.8.6.1 P154 L 23 # 266 Stover, David Linear Tech Corp Comment Type E Comment Status A Editorial "T_Inrush-2P" variable name has improper capitalization. SuggestedRemedy Change to "T_Inrush-2P"	C/ 145	SC 145.2.8.6	P 153	L 3	# 30			nort circuit" and the brown co	olor from the cur	rrent position. See
Sentence has issues after removal of Type 1 and 2 text. SuggestedRemedy Replace "POWER_UP occurs on each pairset between the PSE's transition to the POWER_UP state on that pairset and the expiration of Tinrush-2P." with: POWER_UP occurs on each pairset between the PSE's transition to the POWER_UP state on that pairset and the expiration of Tinrush-2P. Response Response Status C ACCEPT IN PRINCIPLE. "POWER_UP occurs on each pairset between the transition to the POWER_UP state on that pairset and the expiration of Tinrush-2P." CI 145 SC 145.2.8.6.1 P 154 L 23 Linear Tech Corp Comment Type E Comment Status A Editorial "T_Inrush-2P" variable name has improper capitalization. SuggestedRemedy Change to "T_Inrush-2P"	Abramson, [David	Texas Instrun	nents		Response		Response Status C		
SuggestedRemedy In figures 145-24 and 145-25, change "short circuit" to "current transient" Replace "POWER_UP occurs on each pairset between the PSE's transition to the POWER_UP state on that pairset and the expiration of Tinrush-2P." This comment resolves comment: 114 Response Response Status C ACCEPT IN PRINCIPLE. "POWER_UP occurs on each pairset between the transition to the POWER_UP state on that pairset and the expiration of Tinrush-2P." This comment resolves comment: 114 C/ 145 SC 145.2.8.6.1 P 154 L 23 # 266 Stover, David Linear Tech Corp Editorial "T_Inrush-2p" variable name has improper capitalization. Editorial SuggestedRemedy Change to "T_Inrush-2P"	Comment Ty	ype ER	Comment Status A		Editorial	ACCEPT IN PI	RINCIPLE	Ξ.		
SuggestedRemedy This comment resolves comment: 114 Replace "POWER_UP occurs on each pairset between the PSE's transition to the POWER_UP state on that pairset and either the expiration of Tinrush-2P." This comment resolves comment: 114 With: POWER_UP occurs on each pairset between the PSE's transition to the POWER_UP state on that pairset and the expiration of Tinrush-2P. This comment resolves comment: 114 Response Response Status C ACCEPT IN PRINCIPLE. "POWER_UP occurs on each pairset between the transition to the POWER_UP state on that pairset and the expiration of Tinrush-2P." If the expiration of Tinrush-2P. CI 145 SC 145.2.8.6.1 P 154 L 23 # 266 Stover, David Linear Tech Corp Editorial "T_Inrush-2p" variable name has improper capitalization. Editorial SuggestedRemedy Change to "T_Inrush-2P." Editorial	Sentend	e has issues afte	er removal of Type 1 and 2	text.		In figures 145-	24 and 14	15-25 change "short circuit" (to "current trans	iont"
POWER_UP state on that pairset and either the expiration of Tinrush-2P." with: POWER_UP occurs on each pairset between the PSE's transition to the POWER_UP state on that pairset and the expiration of Tinrush-2P. Response Response Status C ACCEPT IN PRINCIPLE. "POWER_UP occurs on each pairset between the transition to the POWER_UP state on that pairset and the expiration of Tinrush-2P." C/ 145 SC 145.2.8.6.1 P 154 L 23 # 266 Stover, David Linear Tech Corp Comment Type E Comment Status A Editorial "T_Inrush-2p" variable name has improper capitalization. SuggestedRemedy Change to "T_Inrush-2P"	SuggestedR	Remedy				in ligures 145-	24 8110 14	-20, change short circuit		sent
ACCEPT IN PRINCIPLE. "POWER_UP occurs on each pairset between the transition to the POWER_UP state on that pairset and the expiration of Tinrush-2P." C/ 145 SC 145.2.8.6.1 P 154 L 23 # 266 Stover, David Linear Tech Corp Comment Type E Comment Status A Editorial "T_Inrush-2p" variable name has improper capitalization. SuggestedRemedy Change to "T_Inrush-2P"	POWER with: PC	R_UP state on the WER_UP occurs	at pairset and either the exp s on each pairset between	piration of Tinru the PSE's trans	sh-2P."	This comment	resolves	comment: 114		
"POWER_UP occurs on each pairset between the transition to the POWER_UP state on that pairset and the expiration of Tinrush-2P." C/ 145 SC 145.2.8.6.1 P 154 L 23 # 266 Stover, David Linear Tech Corp Comment Type E Comment Status A Editorial "T_Inrush-2p" variable name has improper capitalization. SuggestedRemedy Change to "T_Inrush-2P"	Response		Response Status C							
that pairset and the expiration of Tinrush-2P." Cl 145 SC 145.2.8.6.1 P 154 L 23 # 266 Stover, David Linear Tech Corp Comment Type E Comment Status A Editorial "T_Inrush-2p" variable name has improper capitalization. SuggestedRemedy Change to "T_Inrush-2P"	ACCEP	T IN PRINCIPLE								
Stover, David Linear Tech Corp Comment Type E Comment Status A "T_Inrush-2p" variable name has improper capitalization. SuggestedRemedy Change to "T_Inrush-2P"				ransition to the	POWER_UP state on					
Comment Type E Comment Status A Editorial "T_Inrush-2p" variable name has improper capitalization. Editorial SuggestedRemedy Change to "T_Inrush-2P"	C/ 145	SC 145.2.8.6.1	P 154	L 23	# 266					
"T_Inrush-2p" variable name has improper capitalization. SuggestedRemedy Change to "T_Inrush-2P"	Stover, Davi	d	Linear Tech C	Corp						
SuggestedRemedy Change to "T_Inrush-2P"	Comment Ty	vpe E	Comment Status A		Editorial					
Change to "T_Inrush-2P"	"T_Inrus	sh-2p" variable na	ame has improper capitaliz	ation.						
	SuggestedR	Remedy								
Response Response Status C	Change	to "T_Inrush-2P"								
ACCEPT.	Response		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 155 Li 12

Page 49 of 103 3/16/2017 10:31:47 AM

					-					
C/ 145 SC	145.2.8.8	P 155	L 36	# 114	C/ 145	SC	145.2.8.9	P 157	L 13	# 92
Darshan, Yair		Mirosemi			Bullock, C	hris		Cisco Systems		
Comment Type	TR	Comment Status A		Pres: Darshan6	Comment	Туре	Е	Comment Status A		Editoria
below ILIM-2	P_min up t	cuit conditions can not start o TLIM-2P. Currently the are	a between Ipea	k-2P to ILIM-2P is			0	e, "arecleared" needs to be br		
template. Up	to TLIM-2F	is is incorrect. Short circuit re min, it starts at ILIM-2P_m	in and above it.	It is legacy error. See				drops 1 V below the steady-s d_sec variables arecleared (
exceeds the ' be removed f	"PSE lower from a pairs template" ir	E may remove power from the bound template" in Figure 1- set of a PSE before the pairs a Figure 145-24 and 145-25.	45-24 and Figur	e 33-25. Power shall eds the "PSE	Suggested Replac arecle with: are cle	ce: ared	dy			
SuggestedRemed	dy				Response			Response Status C		
Remove the darshan_06_		nort circuit" and the brown co	lor from the cu	rrent position. See	ACCE			Response Status C		
Response		Response Status C			C/ 145	SC	145.2.8.9	P 157	L 13	# 153
ACCEPT IN I	PRINCIPLE				Darshan, Y	rair		Mirosemi		
OBE by 113 ### ### ###						n "TOff		Comment Status A n VPSE drops 1 V below the d_sec variables arecleared (s		
Comment 11 ACCEPT IN I		ollowing response:			Suggested See al		dy			
In figures 145	5-24 and 14	15-25, change "short circuit"	to "current trans	sient"	Response ACCE			Response Status C		
C/ 145 SC Jones, Chad	145.2.8.9	P 157 Cisco	L 13	# 174	ACCE	ΓΙ.				
Comment Type missing a spa arecleared (s		Comment Status A in 'are' and 'cleared': "alt_pw 45-13)"	rd_pri and alt_p	Editorial wrd_sec variables						
SuggestedRemed	dy									
change to: "a	alt_pwrd_pr	i and alt_pwrd_sec variables	are cleared (se	e Figure 145-13)"						
Response ACCEPT.		Response Status W								

Pa **157** Li **13**

Cl 145 SC 145.2.8.11 Yseboodt, Lennart	P 157 Philips	L 21	# 372	C/ 145 SC 14 Abramson, David	5.2.8.11	P 157 Texas Instrur	L 25 ments	# 31
It used to belong with P_	keep this	l off many cycles		Text: PClass-2P allocated power parameter only a PD that advertise 2nd sentence is SuggestedRemedy Remove "that ad	applies to PSEs opera ed a different class si not correct. Pclass-2 lvertised a different c	efined in 145.2 6) added to th ating both pair gnature on ea 2p always app lass signature	ne channel powe rsets and connec ach pairset. lies for DS PDs.	er loss for a pairset. This cted to a dual-signature
SuggestedRemedy - Move paragraph 3 to 14 - Delete 145.2.8.11				Response ACCEPT IN PRI OBE by 372	Response S NCIPLE.	tatus w		
Response ACCEPT IN PRINCIPLE.	Response Status C			### ### ###				
	5.2.7 (editor to find proper	place).		ACCEPT IN PRI	h 3 to 145.2.7 (editor		r place).	

Pa **157** Li **25**

C/ 145 SC 145.2.8.11 P 157 L 26 # 154 Darshan, Yair Mirosemi	C/ 145 SC 145.2.8.14 P 158 L 20 # 32 Abramson, David Texas Instruments Texas Instruments 32
Comment Type TR Comment Status A PSE Power In the text "PClass-2P is the class power defined in 145.2.7 and Equation (145-3), or PSE allocated power (as defined in 79.3.2.6) added to the channel power loss for a pairset. This parameter only applies to PSEs operating both	Comment Type TR Comment Status A PSE Powe Tpon requirement for DS PDs doesn't have a shall. SuggestedRemedy SuggestedRemedy
 pairsets and connected to a dual-signature PD that advertised a different class signature on each pairset." is not accurate. The part "This parameter only applies to PSEs operating both pairsets and connected to a dual-signature PD that advertised a different class signature on each pairset." is confusing: a) This part is accurate "This parameter only applies to PSEs operating both pairsets and connected to a dual-signature PD that advertised a different class signature on each pairset." is confusing: a) This part is accurate "This parameter only applies to PSEs operating both pairsets and connected to a dual-signature PD" b) This part "that advertised a different class signature on each pairset." is incorrect. PClass-2P is applicable for all dual-signature use cases same class or different class per pairset. 	change: "When connected to a dual-signature PD, Tpon is applied from the completion of detection to the POWER_ON state for each pairset independently." to: "When connected to a dual-signature PD, PSEs shall reach the POWER_ON state for a pairset within Tpon after completing detection on the same pairset." PIC to be added if necessary. Response Response Status ACCEPT.
SuggestedRemedy Change from: "PClass-2P is the class power defined in 145.2.7 and Equation (145-3), or PSE allocated	C/ 145 SC 145.2.11 P 159 L 10 # 33 Abramson, David Texas Instruments Texas Instruments Texas Instruments Texas Instruments
power (as defined in 79.3.2.6) added to the channel power loss for a pairset. This parameter only applies to PSEs operating both pairsets and connected to a dual-signature PD that advertised a different class signature on each pairset."	Comment Type TR Comment Status A PSE MPS MPS requirements no longer depend on Type (Type 3 and 4 have same requirements). SuggestedRemedy
To: "PClass-2P is the class power defined in 145.2.7 and Equation (145-3), or PSE allocated power (as defined in 79.3.2.6) added to the channel power loss for a pairset. This parameter only applies to PSEs operating both pairsets and connected to a dual-signature	Remove "a combination of its Type," and the comma after "Type of PD". Sentence should read: "A PSE, depending on the connected Type of PD and whether it is connected to a single-signature PD or a dual-signature PD, shall use ."
PD." Response Response Status W ACCEPT IN PRINCIPLE.	Response Response Status W ACCEPT.
OBE by 372	C/ 145 SC 145.2.11 P 159 L 42 # 175 Jones, Chad Cisco Cisco <t< td=""></t<>
### ### ###	Comment Type ER Comment Status A Editoria
Comment 372 has the following response: ACCEPT IN PRINCIPLE.	"A powering a dual-signature PD over both pairsets:" a what? A PSE. SuggestedRemedy add PSE: "A PSE powering a dual-signature PD over both pairsets:"
 Move paragraph 3 to 145.2.7 (editor to find proper place). Delete 145.2.8.11 	Response Response Status W ACCEPT.

Pa **159** Li **42**

C/ 145 SC 145.2.11 Darshan, Yair	P 159 Mirosemi	L 42	# 155	C/ 145 SC 145.3.1 Schindler, Fred	P 160 Seen Simply, C	L 23 Disco, T	# 205
Comment Type E	Comment Status A a dual-signature PD over bot	h pairsets:" mis	Editorial ssing "PSE".	Comment Type ER	Comment Status A		Editoria
SuggestedRemedy Change to "A PSE pow Response ACCEPT.	vering" Response Status C		·	respectively. Provide Response	e all occurrences of wire, and w the Editor with the discretion to <i>Response Status</i> C		
C/ 145 SC 145.2.11 Abramson, David	P 159 Texas Instrum	L 43 nents	# 34	ACCEPT. 	P 160 Cisco Systems	L 26	# 96
Comment Type ER "PSE" removed by mis SuggestedRemedy Insert "PSE" after "A".	Comment Status A take.		Editorial		Comment Status A ence "The PD shall be impleme hich should be applied to each		PD Type ensitive to the polarity
Response ACCEPT.	Response Status W			Replace: The PD shall be imple	mented to be insensitive to the	polarity of the	power supply
C/ 145 SC 145.3.1 Yseboodt, Lennart	P 160 Philips	L 20	# 373	With: The PD shall be imple mode.	mented to be insensitive to the	polarity of the	power supply on either
Comment Type E 145.3.1 "PD PI" uses th the PD section, without	Comment Status A he term "single-signature" and t any introduction.	d "dual-signatur	<i>Editorial</i> e" for the first time in	Response ACCEPT.	Response Status C		
SuggestedRemedy Swap the order of 145. structure.	3.2 and 145.3.1 to solve this.	This also bring	s it in line with the PSE				
Response ACCEPT.	Response Status C						

Pa **160** Li **26**

C/ 145 SC 145.3.1 P 160 L 27 # 374	C/ 145 SC 145.3.1 P 160 L 35 # 176
Yseboodt, Lennart Philips	Jones, Chad Cisco
Comment Type TR Comment Status A PD Types	Comment Type T Comment Status R PD Typ
"Single-signature PDs with a power demand lower or equal to Class 4 power shall be able to operate per the PD Mode A column and the PD Mode B column in Table 145-18." What we`re really trying to say is that a Class 4 or less PD must be capable to operate in 2-	the infamous "The PD shall withstand any voltage from 0 V to 57 V at the PI indefinitely without permanent damage." There is not a range between 0V and 57V where the behavior of the PD is not specified. It makes this shall superfluous as operating indefinitely without damage is implicit.
pair mode.	SuggestedRemedy
SuggestedRemedy	DELETE THE SENTENCE
"Single-signature PDs that request Class 4 or less shall be able to operate in 2-pair mode as well as 4-pair mode, per the PD Mode A column and per the PD Mode B column in	Response Response Status C REJECT.
Table 145-18."	REJECT.
Response Response Status C ACCEPT IN PRINCIPLE.	I believe (I have been told) that this requirement was included so that if a PD was left in class forever, it could not damage itself (from heating up too much).
"Single-signature PDs that request Class 4 or less shall be able to operate if power is applied to either PD Mode A, PD Mode B, or both modes simultaneously."	We need some sort of requirement for this.
	C/ 145 SC 145.3.1 P 160 L 35 # 375
C/ 145 SC 145.3.1 P 160 L 35 # 204	Yseboodt, Lennart Philips
Schindler, Fred Seen Simply, Cisco, T	Comment Type TR Comment Status A PD Typ
Comment Type TR Comment Status A PD Types	"The PD shall withstand any voltage from 0 V to 57 V at the PI indefinitely without
The existing text, "The PD shall withstand any voltage from 0 V to 57 V at the PI indefinitely without permanent damage." Can be corrected. This requries 2P, 4P, and 3P (2P unswitched) connections that will likely exist in real systems, to be acceptable.	permanent damage." OK. Let`s all take a deep breath and focus on positive energy in the room.
SuggestedRemedy	Why am I bringing this up *again* ?
Replace the first called out text with,	Since it is in a new Clause now, it only applies to Type 3 and Type 4, which gives us a bit more freedom to fix it.
"The PD PI Mode connections shall withstand any voltage from 0 V to 57 V at the PI indefinitely without permanent damage."	The proposed change should not imply anything about surviving invalid/weird input voltage combinations, so I won't touch that.
Response Response Status W	It no longer can be used to manipulate/interpret 4PID stuff, we`re passed that.
ACCEPT IN PRINCIPLE.	What we can fix is not requiring the PD to survive 57V across a pair (over a transformer), which no PD can ever survive.
OBE by 375	Having that issue in, invalidates the entire requirement.
### ###	SuggestedRemedy
Comment 375 has the following response: ACCEPT.	Replace by: "The PD shall withstand any voltage from 0V to 57V applied to Mode A, Mode B, and both simultaneously indefinitely without permanent damage."
Suggested remedy: Replace by:	Response Response Status C
"The PD shall withstand any voltage from 0V to 57V applied to Mode A, Mode B, and both simultaneously indefinitely without permanent damage."	ACCEPT.
	This comment resolves comment: 204

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/generalPa 160Page 54 of 103COMMENT STATUS: D/dispatched A/accepted R/rejectedRESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawnLi353/16/2017 10:31:47 AMSORT ORDER: Page, Line

P 161 Philips mment Status A nissible PD Types. columns have lost their duce either an Annex, rview of ALL PSEs and e an overview.	or a subclause i I PDs.	# <u>376</u> <i>Editorial</i> n the beginning of the	same arguments used f 3 DLL optional and clas SuggestedRemedy	P 161 Mirosemi Comment Status A to need to mandate DLL for d or single-signature PDs. We s 4 and 5 mandatory as in sir	need to make o	
mment Status A nissible PD Types. columns have lost their nduce either an Annex, rview of ALL PSEs and e an overview.	or a subclause i I PDs.		Comment Type TR Table 145-19 There is r same arguments used f 3 DLL optional and clas SuggestedRemedy	Comment Status A to need to mandate DLL for d or single-signature PDs. We	need to make o	ass 1-3 due to the
nissible PD Types. columns have lost their oduce either an Annex, rview of ALL PSEs and e an overview.	or a subclause i I PDs.		Table 145-19 There is r same arguments used f 3 DLL optional and clas SuggestedRemedy	o need to mandate DLL for d or single-signature PDs. We	need to make o	ass 1-3 due to the
columns have lost their iduce either an Annex, rview of ALL PSEs and e an overview.	or a subclause i I PDs.	n the beginning of the	same arguments used f 3 DLL optional and clas SuggestedRemedy	or single-signature PDs. We	need to make o	
rview of ALL PSEs and e an overview.	I PDs.	n the beginning of the	•••		igio oigiiataioi	
ly focus on Type 3 & 4				Type 3 dual-signature PD rov column: 1-3, Data Link Laye		column: Optional No.
			changes in the content	of the other columns.		
			-Dual 2nd row: PD Clas	s column; 4, Data Link Layer of the other columns.	Classification co	olumn; Mandatory. No
, "MPS" and Physical L	ayer Classificati	on	2) Add a note reference	d to DS PD DLL Optional ent	ry: "Data Link La	ayer Classification is
ponse Status C					e less than or e	qual to 3."
			•	Response Status C		
ntroduce either an Anne	ex. or a subclaus	se in the beginning of				
			C/ 145 SC 145.3.2	P 161	L 27	# 224
P 161	L 12	# 280	Stewart, Heath	Linear Tech Co	orp	
Cisco			Comment Type E	Comment Status A		Pres: Ysebood
mment Status A		Editorial	The phrase "a minimum	of Multiple-Event Physical L	ayer Classificati	on" makes no sense.
ader. The "g" has faller	n off "Short/Lon"	and dropped to the	SuggestedRemedy Delete "a minimum of".			
					mplementation	of Data Link Layer
ponse Status C			Response ACCEPT IN PRINCIPLI	Response Status C E.		
			OBE by 393			
			ACCEPT. Suggested remedy:			
r	sponse Status C ntroduce either an Anno overview of ALL PSEs P 161 Cisco omment Status A	sponse Status C ntroduce either an Annex, or a subclaus overview of ALL PSEs and PDs. P 161 L 12 Cisco omment Status A eader. The "g" has fallen off "Short/Lon"	sponse Status C ntroduce either an Annex, or a subclause in the beginning of overview of ALL PSEs and PDs. P 161 L 12 # 280 Cisco cisco comment Status A Editorial eader. The "g" has fallen off "Short/Lon" and dropped to the	sponse Status C ntroduce either an Annex, or a subclause in the beginning of overview of ALL PSEs and PDs. P 161 L 12 # 280 Cisco comment Status A Editorial eader. The "g" has fallen off "Short/Lon" and dropped to the sponse Status C sponse Status C Sp	sponse Status C ntroduce either an Annex, or a subclause in the beginning of overview of ALL PSEs and PDs. P161 L 12 # [280 Cisco pamment Status A Editorial reader. The "g" has fallen off "Short/Lon" and dropped to the sponse Status C sponse Status S sponse Status S s	sponse Status C optional only if the requested class on both modes are less than or end optional only if the requested class on both modes are less than or end optional only if the requested class on both modes are less than or end optional only if the requested class on both modes are less than or end optional only if the requested class on both modes are less than or end optional only if the requested class on both modes are less than or end optional only if the requested class on both modes are less than or end optional optional only if the requested class on both modes are less than or end optional optin optional optional optional optional optional optin optional opt

Pa **161** Li **27** C/ 145 SC 145.3.2 P 161 L 27 # 97 C/ 145 SC 145.3.3 P 161 L 30 # 36 Bullock, Chris **Cisco Systems** Abramson, David Texas Instruments Comment Type Ε Comment Status A Pres: Yseboodt3 Comment Type Е Comment Status A Editorial for consistency with other paragraghs in this section, change wording in sentece.... No need to reference both Type 3 and Type 4. "Type 3 single-signature PDs operating up to a maximum power draw corresponding to SuggestedRemedy Class 3 or less Remove "Type 3 and Type 4". Do same for lines 34, 40, and 43. implement a minimum of Multiple-Event Physical Laver Classification and request Class 1. . 2. or 3." Response Response Status C SuggestedRemedy ACCEPT. Replace: "Type 3 single-signature PDs" C/ 145 SC 145.3.3 P 161 L 40 # 225 Stewart, Heath Linear Tech Corp With: "Single-signature Type 3 PDs" Comment Status A Comment Type TR Pres: Darshan4 The word show should be shown and two Figure references are missing. Response Response Status C ACCEPT IN PRINCIPLE. SuggestedRemedy Change OBE by 393 show in Figure 145-26 ### ### ### shown in Figure 145-26, Figure 145-27 and Figure 145-28 Comment 393 has the following response: Response Response Status C ACCEPT. Suggested remedy: ACCEPT. Adopt yseboodt 03 0317 pdclassification.pdf C/ 145 SC 145.3.3 P 161 L 41 # 281 C/ 145 SC 145.3.2 L 28 # 377 P 161 Walker, Dylan Cisco Yseboodt, Lennart Philips Comment Type Е Comment Status A Editorial Comment Status A Comment Type E PD Types First paragraph, second sentence has a misspelled word. "show" should be "shown". "Type 3 single-signature PDs operating up to a maximum power draw corresponding to Class 3 or less implement a minimum of Multiple-Event Physical Laver Classification and SuggestedRemedy request Class 1, 2, or 3." Replace 'a minimum of' is bizarre and stems from old text. "Single-signature Type 3 and Type 4 PDs shall provide the behavior of the state diagram show ... " SuggestedRemedy "Type 3 single-signature PDs operating up to a maximum power draw corresponding to with Class 3 or less implement Multiple-Event Physical Laver Classification and request Class 1, 2, or 3." "Single-signature Type 3 and Type 4 PDs shall provide the behavior of the state diagram Response Response Status C shown..." ACCEPT IN PRINCIPLE. Response Response Status C ACCEPT. Delete "a minimum of".

IEEE 802.3bt D2.3 4-Pair PoE 3rd Working Group recirculation ballot comments

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Pa 161

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 Li 41

 SORT ORDER: Page, Line
 Pa

Page 56 of 103 3/16/2017 10:31:47 AM

Cl 145 SC 145.3.3 Stewart, Heath	P 161 Linear Tech Cor	L 44	# 226	C/ 145 SC 145 Walker, Dylan	3.3.4	<i>P</i> 163 Cisco	L 42	# 283
Slewari, mealn		5		walker, Dylan				
Comment Type TR	Comment Status A		Pres: Darshan4	Comment Type E	Comment			Editoria
A Figure reference is	missing.			Within the definiti	on of present_mps,	we use "PD's	PI" when "PI" wo	ould suffice.
SuggestedRemedy				SuggestedRemedy				
Change				Change				
shown in Figure 145-2	29			"Controlo opplying	the Maintain Powe	r Signatura M	DS (000 145 2 0)	to the RD's RI
to shown in Figure 145-2	29 and Figure 145-30			Values:	Ine Maintain Fowe	er Signature ivi	F 3 (See 145.3.9)	
Response	Response Status C			FALSE: The MPS	is not to be applied		위.	
ACCEPT.				TRUE: The MPS	is to be applied to the	ne PD's PI."		
				to				
C/ 145 SC 145.3.3.		L 8	# 227			<u>.</u>		
Stewart, Heath	Linear Tech Cor	C		Values:	the Maintain Powe	er Signature M	PS (see 145.3.9)) to the PI.
Comment Type E	Comment Status A		PD SD		is not to be applied	to the PI.		
The description of the	autoclass indicator is vague.			TRUE: The MPS	s to be applied to the	ne PI."		
SuggestedRemedy				Response	Response S	Status C		
Change				ACCEPT.				
dropping its classifica	tion current			C/ 145 SC 145	224	P 163	L 51	# 070
to changing its class sig	nature to class signature 0			Yseboodt, Lennart	3.3.4	Philips	L 31	# 379
Response	Response Status C					•		
ACCEPT.	Response Status			Comment Type T	Comment		<i></i>	Pres: Yseboodt
ACCELLI.					les need to be adju for our state mach		y on (default) as	the rules on (default) in
C/ 145 SC 145.3.3.	.4 <i>P</i> 163	L 30	# 378	002.0 00 101 001				
rseboodt, Lennart	Philips			There are 14	occurances of (del	fault) in the dra	aft.	
Comment Type E	Comment Status A		Editorial	SuggestedRemedy				
"A control variable inc	licating the max power that the P	D may draw fr	om the PSE."	Adopt yseboodt_0	7_0315_killdefault.	pdf		
SuggestedRemedy	•	-		Response	Response S	Status C		
30 y	licating the maximum power that	the PD may d	raw from the PSE."	ACCEPT.				
Also fix for same varia	able in dual-sig.							
Response	Response Status C							
ACCEPT.								

Pa **163** Li **51**

C/ 145 SC 145.3.3.4 P 163 L 54 # 282 Walker, Dylan Cisco Cisco	C/ 145 SC 145.3.3.4 P 164 L 12 # 380 Yseboodt, Lennart Philips
Comment Type E Comment Status A PD SD Second sentence can be made more compact and is missing a serial comma.	Comment Type ER Comment Status A PD SD The variables present_class_sig_[0,A,B] are poorly and generically described in the TRUE/FALSE definitions.
"may or may not show a valid or invalid detection signature" seems redundant. Also, "may or may not show MPS" seems superfluous since pd_undefined is made TRUE in the NOPOWER state, where present_mps is made FALSE.	SuggestedRemedy Change as follows: present_class_sig_0:
SuggestedRemedy Change	 FALSE: Class signature 0 is not to be applied to the PI. TRUE: Class signature 0 is to be applied to the PI
"The PD may or may not show a valid or invalid detection signature, may or may not draw mark current, may or may not draw any class current, may or may not show MPS and may change the pse_power_level variable." to "The PD may or may not show a valid detection signature, may or may not draw mark current, may or may not draw any class current, and may change the pse_power_level variable."	present_class_sig_A: FALSE: The class signature corresponding with class_sig_A is not to be applied to the PI TRUE: The class signature corresponding with class_sig_A is to be applied to the PI present_class_sig_B:
Response Response Status C ACCEPT IN PRINCIPLE. "The PD may or may not show a valid or invalid detection signature, draw mark current, draw any class current, show MPS, and may change the pse_power_level variable.	FALSE: The class signature corresponding with class_sig_B is not to be applied to the PI TRUE: The class signature corresponding with class_sig_B is to be applied to the PI Response Response Status C ACCEPT IN PRINCIPLE. ALSO, apply change to DS PD SD.

Pa **164** Li **12**

C/ 145 SC 145.3.3.4 P 165 L 19 # 228 Stewart, Heath Linear Tech Corp Linear Tech Co	C/ 145 SC 145.3.3.7 P 167 L 4 # 137 Darshan, Yair Mirosemi
Comment Type TR Comment Status A PD SD	Comment Type TR Comment Status A PD SD
This does not address the fact that one Alternative can have a non-zero voltage while the other has a zero voltage.	To address comment #170 from D2.2. (Remove the global transition in to the 'OFFLINE' state labelled 'BEGIN' in both Figure145-26 and Figure 145-29)
"V_PD: Voltage at the PD PI as defined in 145.1.3."	SuggestedRemedy
SuggestedRemedy	If not resolved, add to Lennart's TODO list.
Change V_PD: Voltage at the PD PI as defined in 145.1.3.	Response Response Status C ACCEPT IN PRINCIPLE.
to V_PD: Larger of the Mode A or Mode B voltages at the PD PI as defined in 145.1.3.	OBE by 381
Response Response Status C	
ACCEPT IN PRINCIPLE. OBE by 256	### ### Comment 381 has the following response: ACCEPT. Suggested remedy: Any solution I can think of is way worse that not handling this particular case. One can also
### ###	reason that a voltage is never instantaneously at a certain value.
Comment 256 has the following response: ACCEPT IN PRINCIPLE.	Remove BEGIN arc into OFFLINE, do the same for dual-sig.
Add TDL (David Stover): Update VPSE, VPD, and PI definitions to include 2-pair and 4- pair. Remove "at the XXX PI" from our draft.	C/ 145 SC 145.3.3.7 P 167 L 54 # 382 Yseboodt, Lennart Philips Philips
C/ 145 SC 145.3.3.7 P167 L 4 # 381	Comment TypeERComment StatusAEditorialThe Figure numbering of F 145-27 is incorrect, it belongs with F 145-26.
/seboodt, Lennart Philips	SuggestedRemedy
Comment Type T Comment Status A PD SD There is a TDL to get rid of BEGIN, since its meaning is ambiguous. For the PD this	Make 145-27 => 145-26. Idem for 145-30 => 145-29.
statement was there to provide correct behaviour when "starting under voltage". SuggestedRemedy	Response Response Status W ACCEPT.
Any solution I can think of is way worse that not handling this particular case. One can also	
reason that a voltage is never instantaneously at a certain value. Remove BEGIN arc into OFFLINE, do the same for dual-sig.	C/ 145 SC 145.3.3.7 P 168 L 32 # 383 Yseboodt, Lennart Philips Philips
Response Response Status C	Comment Type TR Comment Status A PD SD
ACCEPT.	There is a multi-true possible out of POWER_DELAY.
	SuggestedRemedy
This comment resolves comment: 137	Change arc from POWER_DELAY to POWERED to read "tpowerdly_timer_done * (VPD >= Voff_PD)"
	Response Response Status W
	ACCEPT.
TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/g COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/w	

C/ 145 SC 145.3.3.7 P 168 L 41 # 384 C/ 145 P 169 L 2 # 387 SC 145.3.3.7 Yseboodt, Lennart Philips Yseboodt, Lennart Philips Comment Type **T** Comment Status A PD SD Comment Type T Comment Status A PD SD Variable "pd reg pwr" does not exist for a PD. "pd reg class" does. In statement (VPD<VReset) variable VReset does not excist. VReset PD does. SuggestedRemedy SuggestedRemedy Change all occurances of "pd_req_pwr" to "pd_req_class" in Figure 145-27. Change VReset to VReset_PD. Response Response Status C Response Response Status C ACCEPT. ACCEPT. C/ 145 SC 145.3.3.7 P 168 L 42 # 385 C/ 145 SC 145.3.3.7 P 169 L 3 # 99 Bullock, Chris **Cisco Systems** Yseboodt, Lennart Philips PS SD Comment Type TR Comment Status A PD SD Comment Type Comment Status A TR The DLL enable state can far more compactly be folded into POWERED with an IF Vreset is used in three places in PD state-machines. Where the correct constant to use is Vreset PD. This comment address the occurrence in the Single-Signature PD Autoclass statement. State Diagram. SuggestedRemedy SuggestedRemedy - Delete DLL ENABLE and all in and out going connections - Add the following to the POWERED state: Open-ended entry arc into IDLE ACS state in Figure 145-28: "IF (pd req_pwr>3 + pd_dll_capable) THEN Replace: pd dll enabled <= TRUE (VPD < VReset) + pd reset + !mdi power required FND" With: (VPD < VReset PD) + pd reset + !mdi power required Response Response Status W Response Response Status W ACCEPT. ACCEPT. C/ 145 SC 145.3.3.7 P168 / 47 # 386 C/ 145 SC 145.3.3.7 P 169 L 12 # 388 Yseboodt, Lennart Philips Yseboodt, Lennart Philips Comment Type T Comment Status A PD SD Comment Type T Comment Status A PD SD Arc from POWERED to POWER UPDATE: "pd power update * pd dll enabled * V PD > V Off PD". Global entry part to IDLE_ACS (VPD < VReset_PD) statement is not correct, should be (VPD < VOff PD). SuagestedRemedv This also simplifies further logic. Comparison should include VoffPD. SuggestedRemedy Replace by: "pd_power_update * pd_dll_enabled * V PD >= V Off_PD" - Change entry into IDLE ACS to: "(V PD < V Off PD) + pd reset + !mdi power required" Response Response Status C - Remove "VPD > VPort PD-2P" (2x) in Figure 145-28 ACCEPT IN PRINCIPLE. Response Response Status C Change arc from powered to no power to VPD <= Voff PD ACCEPT. Put paranthesis around comparison in powered to power update state.

IEEE 802.3bt D2.3 4-Pair PoE 3rd Working Group recirculation ballot comments

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

Pa **169** Li **12** Page 60 of 103 3/16/2017 10:31:48 AM

C/ 145 SC 145.3.3.9 P 170 L 11 # 101 Bullock, Chris Cisco Systems Cisco Systems	C/ 145 SC 145.3.3.9 P 170 L 11 # 136 Darshan, Yair Mirosemi
Comment Type TR Comment Status A Pres: Darshan	Comment Type TR Comment Status A Pres: Darshan
In the Dual-signature Pd state diagram, the variable "pd_current_limit" should be "pd_current_limit_mode(M)"	pd_current_limit variable should be pd_current_limit_mode(M). See approved remedy in darshan_02_0117.pdf
SuggestedRemedy	SuggestedRemedy
Replace:	See darshan_04_0317.pdf
pd_current_limit	Response Response Status C
With:	ACCEPT IN PRINCIPLE.
pd_current_limit_mode(M)	OBE by 351
Occurs in three places: 1. variable definition section on page 170. 2. Inside the INRUSH state on page 174.	### ###
3. Inside the MDI_POWER1 state on page 174.	Comment 351 has the following response:
Response Response Status C	ACCEPT IN PRINCIPLE.
ACCEPT IN PRINCIPLE.	Adopt darshan_04_0317Rev008.pdf
OBE by 351	C/ 145 SC 145.3.3.9 P 171 L 31 # 206
### ###	Schindler, Fred Seen Simply, Cisco, T
	Comment Type ER Comment Status D PD St
Comment 351 has the following response: ACCEPT IN PRINCIPLE.	The text, "The voltage at the PD PI measured between any positive conductor and any negative
Adopt darshan_04_0317Rev008.pdf	conductor of the Mode M pairs." can be made consistent with other 4P text by using pairset.
	SuggestedRemedy
	Replace "pairs" with "pairset" in the called out sentence.
	Proposed Response Response Status Z REJECT.
	This comment was WITHDRAWN by the commenter.

Pa **171** Li **31**

C/ 145 SC 145.3.3.12 P 173 L 1 # 1 Darshan, Yair Mirosemi	C/ 145 SC 145.3.3.12 Bullock, Chris	P 173 L 2 # 100 Cisco Systems					
Comment Type TR Comment Status A Pre dual-signature and single-signature PD state diagram need to be updated. SuggestedRemedy See darshan_04_0317.pdf Response Response Status C ACCEPT IN PRINCIPLE. OBE by 351 ### ### ### Comment 351 has the following response: ACCEPT IN PRINCIPLE. Adopt darshan_04_0317Rev008.pdf	Vreset is used in three places in P Vreset_PD. This comment addres Diagram. SuggestedRemedy Open-ended entry arc into IDLE st Replace: "(VPD_mode(M) < VReset) * mdi_ With: "(VPD_mode(M) < VReset_PD) * n	<pre>Vreset is used in three places in PD state-machines. Where the correct constant to use Vreset_PD. This comment address the two occurences in the Dual-Signature PD State Diagram.</pre> SuggestedRemedy Open-ended entry arc into IDLE state: Replace: "(VPD_mode(M) < VReset) * mdi_power_required_mode(M) * !pd_reset_mode(M)" With: "(VPD_mode(M) < VReset_PD) * mdi_power_required_mode(M) * !pd_reset_mode(M)" Exit condition from IDLE to DO_DETECTION state: Replace: VPD_mode(M) > VReset With: VPD_mode(M) > VReset_PD					
	Response Respons ACCEPT IN PRINCIPLE.	se Status C					
	OBE by 351						
	Comment 351 has the following re ACCEPT IN PRINCIPLE.	esponse:					
	Adopt darshan_04_0317Rev008.p	odf					

Pa **173** Li **2**

C/ 145 SC 145.3.3.12 P 173 L 8 # 389 Yseboodt, Lennart Philips	C/ 145 SC 145.3.3.13 P 173 L 8 # 134 Darshan, Yair Mirosemi
Comment Type T Comment Status A Pres: Darshan4 Variable "pd_dll_enable" does not exist, "pd_dll_enabled" does. SuggestedRemedy Change variable name "pd_dll_enable" to "pd_dll_enabled", two occurances on this line. Response Response Status C ACCEPT IN PRINCIPLE. OBE by 351 ### ### ### Comment 351 has the following response:	Comment Type TR Comment Status A Pres: Darshan4 In IDLE state pd_dll_enable should be pd_dll_enabled. See approved remedy in darshan_02_0117.pdf SuggestedRemedy See darshan_04_0317.pdf for additional related changes. Response Response Status C ACCEPT IN PRINCIPLE. OBE by 351 ### ####
ACCEPT IN PRINCIPLE. Adopt darshan_04_0317Rev008.pdf	Comment 351 has the following response: ACCEPT IN PRINCIPLE. Adopt darshan_04_0317Rev008.pdf
CI 145 SC 145.3.3.13 P 173 L 8 # [133] Darshan, Yair Mirosemi Comment Type TR Comment Status A Pres: Darshan4 In OFFLINE state pd_dll_enable should be pd_dll_enabled. See approved remedy in darshan_02_0117.pdf Pres: Darshan4	CI 145SC 145.3.3.14P 174L 2# 135Darshan, YairMirosemiComment TypeTRComment StatusAPD SDIn OFFLINE state, remove the arrow and label BEGIN.
SuggestedRemedy See darshan_04_0317.pdf for additional related changes. Response Response Status C ACCEPT IN PRINCIPLE. OBE by 351 ### ###	SuggestedRemedy 1. Remove BEGIN from the relevant states. 2. If not resolved for this meeting, add to TODO list. Response Response Status ACCEPT IN PRINCIPLE. Remove BEGIN from the relevant states.
Comment 351 has the following response: ACCEPT IN PRINCIPLE. Adopt darshan_04_0317Rev008.pdf	

Pa **174** Li **2**

C/ 145 SC 145.3.3 Beia, Christian	P 174 STMicroelectron	L 15 nics	# 85	<i>Cl</i> 145 Beia, Chris	SC 145.3.3	<i>P</i> 174 STMicro	L 25 electronics	# 86
Comment Type E Comment S	Status A		Pres: Darshan4	Comment 7	vpe E	Comment Status A		Pres: Darshan
The name of MDI_POWER1 has bee diagram, so it should be done for DS		WER_DELAY in	the SS state		me of MDI_PO d be done for [d to POWERED in t	he SS state diagram, so
SuggestedRemedy				Suggested	Remedy			
change the name of state MDI_POW	ER1 to POWER_	DELAY		change	the name of st	ate MDI_POWER2 to P	OWERED	
Response Response S	Status C			Response		Response Status C		
ACCEPT IN PRINCIPLE.				ACCEF	PT IN PRINCIPL	.E.		
OBE by 351				OBE by	/ 351			
### ### ###				### ##	# ###			
Comment 351 has the following response ACCEPT IN PRINCIPLE.	onse:				ent 351 has the PT IN PRINCIPL	following response: .E.		
Adopt darshan_04_0317Rev008.pdf				Adopt of	darshan_04_03	17Rev008.pdf		
C/ 145 SC 145.3.3.12 Darshan, Yair	P 174 Mirosemi	L 18	# 132	<i>Cl</i> 145 Darshan, Y	SC 145.3.3.1 air	2 P 174 Mirosem	<i>L</i> 26 і	# 125
Comment Type TR Comment S In MDI_POWER1 state pd_current_lin remedy in darshan_02_0117.pdf SuggestedRemedy		RUE and not FAL	Pres: Darshan4 SE. See approved	comme	ly response to r ent): ue caused by n	Comment Status A my TDL comment #185 nixed use of pd_dll_enat	from D2.2 (My respo	
In MDI_POWER1 state: Change from pd_current_limit <==FA	ALSE			Suggested	Remedy			
To: pd_current_limit <==TRUE.				See pro	posed remedy	in darshan_04_0317.pd	f	
See darshan_04_0317.pdf for addition	6	jes.		Response		Response Status C		
Response Response S	Status C			ACCEF	T IN PRINCIPL	_E.		
ACCEPT IN PRINCIPLE.				OBE by	, 251			
OBE by 351				OBE D	/ 551			
### ### ###				### ##	# ###			
### ### ### Comment 351 has the following respond ACCEPT IN PRINCIPLE.	onse:			Comm		following response: E.		

Pa **174** Li **26**

C/ 145 SC 145.3.3.12 Yseboodt, Lennart	P 174 Philips	L 30	# 390)	C/ 145 Bullock, Chri	SC 145.3.4		74 Systems	L 44	# 102	
	omment Status A			PD SD	Comment Ty		Comment Status				PD Types
Figure 145-30, dual-sig PD S Hence the DLL_ENABLE sta	SD. DLL is mandatory f	or dual-sig PDs.					signature or dual-signa		ange "and" to "	or" in 3 places	
SuggestedRemedy					SuggestedR	emedy					
 Add "dll_enabled <= TRUE (depending on accepting a c Remove DLL_ENABLE wit 	comment from Yair to ha	armonize single/		ED state	Replace		, line 48, and line 50 (jure 145-29	3 places):	:		
Response Re ACCEPT IN PRINCIPLE.	sponse Status C				With: Figure 14	45-26 or Figu	re 145-29				
OBE by 351					Response ACCEP1	- -	Response Status	w			
### ### ###						<u> </u>					
Comment 351 has the follov ACCEPT IN PRINCIPLE.	ving response:				<i>Cl</i> 145 Walker, Dyla	SC 145.3.4 n	P 1 Cisco	-	L 5	# 285	
					Comment Ty	pe E	Comment Status	Α			4PID
Adopt darshan_04_0317Rev	/008.pdf				Unneces	sary comma.					
C/ 145 SC 145.3.4 Valker, Dylan	<i>P</i> 174 Cisco	L 44	# 284	1	SuggestedRe Change	emedy					
We can refer to the detectio SuggestedRemedy Change	n state by its proper na	ne for clarity.			4PID in ⁻	Table 79-6b o	e ability to accept pour r by presenting a valid er only one pairset."				
"A PD presents a valid deter	ction signature when it i	s in a detection s	state"		"A PD m	av indicate th	e ability to accept pov	ver on hot	th paircote usin	a TI V variable	PD
to					4PID in ⁻	Table 79-6b o	r by presenting a valid er only one pairset."				
"A PD presents a valid deter Response Re	ction signature when it i sponse Status C	s in the DO_DE	ECTION state	e"	Response ACCEP1	IN PRINCIP	Response Status LE.	С			
ACCEPT IN PRINCIPLE.					OBE by	421					
Change					### ###	###					
"A PD presents a valid detect	ction signature when it i	s in a detection s	state"		Commer ACCEP1		e following response:				
to											
"A PD presents a valid deter	ction signature when it i	s in DO_DETEC	TION"								
TYPE: TR/technical required EF COMMENT STATUS: D/dispatcl SORT ORDER: Page, Line	-	• •				J/unsatisfied	Z/withdrawn	Pa 175 Li 5	5	0	65 of 103 2017 10:31

SORT ORDER: Page, Line

-											
C/ 145	SC 145.3.4	P 175	L 5	# 391	C/ 145	SC 145.3	3.4	P 175	L 6	# 421	
/seboodt,	Lennart	Philips			Zimmerm	an, George		CME Consulti	ng/Aqua		
Comment	Type TR	Comment Status A		4	PID Commen	t Type TR	Comme	nt Status A		4PID	
4PID in when i All Typ to sho	n Table 79-6b or it is powered over pe 3/4 PDs have t w a valid detectio	ability to accept power on b by presenting a valid detecti only one pairset." the ability to accept power or n signature on the unpowere dant for Type 3/4 and seem	on signature or h both pairsets. ed pairset.	the unpowered pairse	et, over abov and c to ac direc	only one pairs e, in a way that contradictory t cept power or tly contradicts	set." - this restat at seems to mal o the single-sig	es the requirement the it optionally contract requirement about This is inappropriation	nts for single and itrollable, is con e. All Clause 14	set, when it is powered d dual signature PDs fusing, unnecessary, 45 PDs have the ability n clause 33 because it	
Suggested		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	5		Suggeste	•	C		(II	(11)	
	1: remove it						v v	n end of sentence	("only one pairs	set.").	
	1 2: move to 33.3.	4			Response ACC		Respons	e Status C			
TFTD.					Thio	commont rook	olves comments	. 295 201			
Response		Response Status C						•			
	PT IN PRINCIPLI	Ε.			<i>Cl</i> 145 Stewart, I	SC 145.3 Heath	3.4	P 175 Linear Tech C	L 27 Corp	# 229	
OBE b	by 421				Commen	tType E	Comme	nt Status A		PD Detection	
### ### ###					Since	Since PDs can and do present invalid signatures at given times, the following sentence cannot be true.					
Comm ACCE		ollowing response:				"A PD that presents a signature outside of Table 145-20 is non-compliant, while a PD that presents the signature of Table 145-21 is assured to fail detection."					
C/ 145	SC 145.3.4	P 175	L 5	# 420	Suggeste	dRemedy					
Zimmerma	an, George	CME Consult	ng/Aqua		Chan			aida of Tobla 145	20 io non com	aliant while a DD that	
Comment	Type TR	Comment Status A		4						pliant, while a PD that	
" A PD may indicate the ability to accept power on both pairsets using TLV variable PD 4PID in Table 79-6b" is inappropriate for Type 3 PDs, and is unrelated to the detection signatures in this section, and is already defined in Clause 79. All type 3 PDs have the ability to accept power on 4 pairs, and this sentence suggests otherwise. Clause 33 PDs						presents the signature of Table 145-21 is assured to fail detection. To PD requesting power by presenting a detection signature outside of Table 145-20 is non- compliant, while a PD that presents the signature of Table 145-21 is assured to fail detection."					
	•	can use the new clause 79	.3.2.00.2 Value	s without it.	Response		Respons	e Status C			
pairset NOTE specifi	e this sentence. A ts from a Clause in 33.3.1 stating: ically not allowed	Append "A PD may indicate 145 PSE using TLV variable "NOTE-PDs that implement by this standard. PDs that s e specifically not allowed by	PD 4PID, see only Mode A c imultaneously r	79.3.2.6d.2." to the r Mode B are	ACCI	EPT.					
Response ACCE		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 **175** Li **27**

C/ 145 SC 145.3.4	P 175	L 52	# 305		SC 145.3.6	P 176	L 41	# 207			
Walker, Dylan	Cisco			Schindler, Fre		Seen Simply	, Cisco, T				
Comment Type T Table 145-21, "Conditions' to be consistent with the co SuggestedRemedy			PD Detect an or equal to" operat	r Text char confusing "The requ	nges made wh j. New text, uested Class o						
Change "less than" sign in		n or equal to" sig	n.	- is the C Type 4, C 8 PSE;		ertises during Physical Laye	r classification w	hen connected to a			
Proposed Response R REJECT.	Response Status Z			- is the m	t limit the max	er that a PD draws across all kimum amount of power the					
This comment was WITHD	RAWN by the commenter	er.		Layer cla	ssification (se	e 33.5) but continues to limit		ower that the PD draws;			
C/ 145 SC 145.3.5	P 176	L 34	# 392	- is the m	aximum powe	er that a Type 3 or Type 4 PE) shall draw."				
Yseboodt, Lennart Comment Type ER (Philips Comment Status A		Edito	construct	,	replace sentences, which se	ems worse that	the D2.2 sentence			
		o signature, as de	efined in Table 145-20 en 0V and 57V, and	paragrap "Dependi	h clarifies the ng on the nun	ecessary. The texting in the relationship between reques ober of class events produce he requested Class."	ted and assigned	d more generally,			
SuggestedRemedy - Replace by: "A dual-signature PD shall present a valid detection signature, as defined in Table 145-20,					The second bullet appears to have been based on the preferred sentence, "The Class requested by the PD during Physical Layer classification is the maximum power that a Type 3 or Type 4 PD shall draw."						
on a given Mode, regardles Mode. This requirement ap			applied to the other	The third	bullet likely co	onfuses the reader more that	n it helps them.				
- Also add the "as defined	in Table 145-20" to the s	ingle-signature p	ara above.			a shall in a bullet (not a sent ginal sentence is preferred,	ence). Our Edito	or should determine if			
Response R ACCEPT.	Response Status C			"The Clas that a Ty	"The Class requested by the PD during Physical Layer classification is the maximum power that a Type 3 or Type 4 PD shall draw."						
				The bulleting continues on lines 19 to 23 of page 177. Each bullet is a requirement (has a shall) that was a sentence but is now a bullet, which is likely not allowed. The structure also gives things human characteristics, which is generally not allowed in technical specifications.							
				SuggestedRe	medy						
				proposal	(option-1) is a	m D2.2 #278, which provided subset of the accepted prop tructure replaced by bullets i	osal. The option	n-1 proposal preserves			
					_01_0117_33_	nade, for this section, going _3_6_PD_Class_opt1_marku					
TYPE: TR/technical required E COMMENT STATUS: D/dispat SORT ORDER: Page, Line	•	• •		0	I/unsatisfied	Pa 1 Z/withdrawn Li 4	-	Page 67 of 103 3/16/2017 10:31:4			

Then replace the corrected text,

"PDs shall return class_sig_A or class_sig_B in accordance with the PD requested Class, as specified in Table 33-26 and Table 33-27 and the responses specified in Table 33-26 and Table 33-27."

with,

"PDs shall return class_sig_A or class_sig_B in accordance with the PD requested Class, as specified in

Table 145-24 and Table 145-25, with the corresponding classification signatures specified in

Table 145-24 and Table 145-25.

which matches the new text used in D2.3 but replaces "PD's" with "PD".

Strike the sentence,

"Type 2 and single-signature Type 3 and Type 4 PDs shall advertise class signatures according to the PD requested Class as defined in Table 33-26."

which does not appear in D2.3.

Response Response Status C

ACCEPT IN PRINCIPLE.

OBE by 393

###

Comment 393 has the following response: ACCEPT. Suggested remedy: Adopt yseboodt 03 0317 pdclassification.pdf

Adopt yseboodt_03_0317_pdclassification.pd

C/ 145	SC 145.3.6	P 176	L 41
Yseboodt,	Lennart	Philips	

Comment Type TR Comment Status A

Pres: Yseboodt3

393

The combination of the large changes in

hstewart_01_0117_33_3_6_PD_Class_opt2_markup_rev2.pdf combined with changes introduced to the Clause split requires some cleanup in this section.

SuggestedRemedy

Adopt yseboodt_03_0317_pdclassification.pdf

Response

ACCEPT.

This comment resolves comments: 37, 84, 97, 103, 156, 177, 178, 207, 224

Response Status C

Cl 145 Walker, Dy		145.3.6	P 176 Cisco	L 43	#	286
Comment	Туре	Е	Comment Status A			Editorial
Sente	nce has	s an unnee	ded "the" prior to "Physical I	_ayer classificati	on"	

SuggestedRemedy

Change

"A PD may be classified by the PSE based on the Physical Layer classification, Data Link Layer (DLL) classification, or a combination of both provided by the PD."

to

"A PD may be classified by the PSE based on Physical Layer classification, Data Link Layer (DLL) classification, or a combination of both provided by the PD."

Response ACCE		Response Status C		
C/ 145	SC 145.3.6	P 177	L 2	# 177
Jones, Ch	ad	Cisco		
A	T	0		

Comment Type TR Comment Status A Pres: Yseboodt3

"does not limit the maximum amount of power the PD may request from the PSE during Data Link Layer classification (see 33.5) but continues to limit the maximum power that the PD draws;" this may be true (to my displeasure) but there is no reason to highlight it. I'd prefer no mention of a PD asking for more power via LLDP than advertised by physical layer.

SuggestedRemedy

delete this text: "does not limit the maximum amount of power the PD may request from the PSE during Data Link 2 Layer classification (see 33.5) but continues to limit the maximum power that the PD draws;"

Response Response Status C

ACCEPT IN PRINCIPLE.

OBE by 393

Comment 393 has the following response: ACCEPT. Suggested remedy: Adopt yseboodt_03_0317_pdclassification.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 **177** Li **2** Page 68 of 103 3/16/2017 10:31:48 AM

C/ 145 SC 145.3.6	P 177	L 3	# 178	C/ 145	SC 145.3.6	P 177	L 4	# 37			
Jones, Chad	Cisco			Abramson,	, David	Texas Inst	ruments				
section now reads like		ed class of the P	Pres: Yseboodt3 PD' is accepted the		idant requireme	Comment Status A nt. 4th bullet is the same a	s 2nd.	Pres: Yseboodt			
The requested Class o	of the PD: ? vertises during Physical Laye	r classification v	when connected to a	SuggestedRemedy Remove last bullet "is the maximum power that a Type3 or Type 4 PD shall draw."							
Type 4, Class 8 PSE; - is the maximum pow ?	ver that a PD draws across al ver that a Type 3 or Type 4 PI	l input voltages		Response ACCE	PT IN PRINCIP	Response Status C					
?	and the last halls the strends of		and built of the second second	OBE b	oy 393						
	and the last bullet is simply re . How about rewriting it like the				ent 393 has the	e following response:					
The requested Class of the PD is the Class a PD advertises during Physical Layer classification when connected to a Type 4, Class 8 PSE and is the maximum power that a PD draws across all input voltages and operational modes. The requested Class of the PD is the maximum power that a Type 3 or Type 4 PD shall draw. ?						317_pdclassification.pdf					
Response	Response Status C										
ACCEPT IN PRINCIPL	-			C/ 145 Darshan, Y	SC 145.3.6 Tair	P 177 Mirosemi	L 7	# 124			
OBE by 393				Comment	Type TR	Comment Status A		PD Class			
### ### ### Comment 393 has the	following response:			In the text "After a successful DLL classification, the assigned Class changes depending on the value of PDMaxPowerValue variable, as defined in Table 145-22.", missing PDMaxPowerValue_mode(M).							
ACCEPT. Suggested remedy:				Suggested	Remedy						
Adopt yseboodt_03_03		depen	ding on the valu	a successful DLL classificat le of PDMaxPowerValue va node(X) variable, as defined	riable for single si	ignature PD and					
				Response		Response Status W					
				ACCE	PT IN PRINCIP	LE.					
				depen	, ding on the valu	a successful DLL classificat le of PDMaxPowerValue for node(X) for dual-signature F	r single-signature	PDs and			

Pa **177** Li **7** C/ 145 SC 145.3.6 P 177 # 41 C/ 145 P 177 L 14 # 287 L 11 SC 145.3.6 Abramson, David **Texas Instruments** Walker, Dylan Cisco Comment Status A Comment Type E Comment Status A PD Class Comment Type Е Editorial No reason for "Type 3 and Type 4" and we can combine sentences. First sentence has an extra "PD". SuggestedRemedy SuggestedRemedy Replace: "PDs shall provide Physical Laver classification. Type 3 and Type 4 PDs shall Change implement Multiple-Event classification as defined in 145.3.6.1 and Table 145-23." with: "PDs shall provide Physical Layer classification and shall implement Multiple-Event "Single-signature PDs that request Class 1 to 3 PDs optionally provide Data Link Layer classification as defined in 145.3.6.1 and Table 145-23. classification (see 145.5)." Response Response Status C to ACCEPT IN PRINCIPLE. "Single-signature PDs that request Class 1 to 3 optionally provide Data Link Layer Change to: "PDs shall provide Multi-Event classification as defined in 145.3.6.1 and Table classification (see 145.5).' 145-23." Response Response Status C SC 145.3.6 C/ 145 P 177 L 14 # 103 ACCEPT. Bullock, Chris **Cisco Systems** C/ 145 SC 145.3.6 P 177 L 14 # 156 Comment Status A Comment Type ER Pres: Yseboodt3 Darshan, Yair Mirosemi Single-signature PDs that request Class 1 to 3 PDs optionally provide Data Link Layer Comment Status A Comment Type Е Pres: Yseboodt3 classification (see 145.5). In the text "Single-signature PDs that request Class 1 to 3 PDs optionally provide Data Link should say: Layer classification (see 145.5)." . Delete "PDs". SuggestedRemedy Single-signature PDs that request Class 1 to 3 may optionally provide Data Link Layer classification (see 145.5). Change to: "Single-signature PDs that request Class 1 to 3 optionally provide Data Link Laver classification (see 145.5)." SuggestedRemedy Response Response Status C Replace: Single-signature PDs that request Class 1 to 3 PDs optionally provide Data Link Layer ACCEPT IN PRINCIPLE. classification (see 145.5). OBE by 393 With: Single-signature PDs that request Class 1 to 3 may optionally provide Data Link Layer ### ### ### classification (see 145.5). Comment 393 has the following response: ACCEPT. Response Response Status C Suggested remedy: ACCEPT IN PRINCIPLE. Adopt yseboodt 03 0317 pdclassification.pdf OBE by 393 ### ### ### Comment 393 has the following response: ACCEPT. Suggested remedy: Adopt vseboodt 03 0317 pdclassification.pdf

IEEE 802.3bt D2.3 4-Pair PoE 3rd Working Group recirculation ballot comments

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

Pa **177** Li **14** Page 70 of 103 3/16/2017 10:31:48 AM

C/ 145 SC 145.3.6 Beia, Christian	P 177 STMicroelect	L 14 ronics	# 84	C/ 145 Stewart, Hea	SC 145.3.6 ith	P 177 Linear Tech	L 14 Corp	# 230
Comment Type E	Comment Status A		Pres: Yseboodt3	Comment Ty	pe E	Comment Status A	·	Editorial
Туро						Editor taking artistic license edundant nouns thus created		ready perfect text, it is
SuggestedRemedy				SuggestedR	0			
classification with:	that request Class 1 to 3 PDs that request Class 1 to 3 opti		·	Change PDs that to	request Class	s 1 to 3		
Response	Response Status C			ACCEP	r	Response Status C		
, ACCEPT IN PRINCIP	•			ACCEI				
OBE by 393				<i>Cl</i> 145 Darshan, Ya	SC 145.3.6 ir	P 177 Mirosemi	L 15	# 157
### ### ###				Comment Ty	pe TR	Comment Status A		PD Class
Comment 393 has th ACCEPT. Suggested remedy: Adopt yseboodt_03_(e following response: 0317_pdclassification.pdf			shall pro classific	vide DLL ation.". Dual si	ature PDs that request Class gnature PDs with lower than treated as single-signature c	class 4 on both	0
/ 145 SC 145.3.6	P 177	L 14	# 179	SuggestedR	emedy			
lones, Chad Comment Type ER Extra 'PDs' in the sen provide Data Link Lay	Cisco <i>Comment Status</i> A tence: "Single-signature PDs yer classification".	that request Clas	<i>Editorial</i> ss 1 to 3 PDs optionally	shall pro classific To: "Sin	vide DLL ation." gle-signature F	signature PDs that request C PDs that request Class 4 or h her on at least one of its mod	higher and dual-s	ignature PDs that
SuggestedRemedy				Response		Response Status C		
delete PDs: "Single-s Layer classification"	ignature PDs that request Cla	ss 1 to 3 optiona	lly provide Data Link	ACCEP	Г.			
Response ACCEPT.	Response Status W			C/ 145 Stewart, Hea	SC 145.3.6 ith	<i>P</i> 177 Linear Tech	L 19 Corp	# 231
				Comment Ty Figure re	<i>pe</i> E eference lost d	Comment Status A		Editorial
				SuggestedR	2	ist for first bullet.		
				Response	10 170-21 101	Response Status C		
				•	IN PRINCIPI	•		
					gures are getti s once done.	ng renumbered. Editor to up	odate this senten	ce with correct
COMMENT STATUS: D/c	red ER/editorial required GR. dispatched A/accepted R/reje	•		0	U/unsatisfied	Pa 1 Z/withdrawn Li 1		Page 71 of 103 3/16/2017 10:31

C/ 145 SC 145.3.6	P 177	L 19	# 306	C/ 145	SC 145.3	6.6	P 177	L 21	# 116
Walker, Dylan	Cisco			Darshan, Y	Yair		Mirosemi		
Comment Type T	Comment Status A		Editorial	Comment	Туре ТК		Comment Status A		PD Clas
First bullet item has an	unnecessary comma.			in the	text "- shall r	eturn c	lass_sig_A or class_sig_B ble 145-24 and Table 145-2	in accordance	with the PD's requested
Also, the "and" should b	e an "or".						ble 145-24 and Table 145-2		
SuggestedRemedy							ed. It is not clear that class		
Change							ore Table 145-24.	oues e.g. or mo	UEA and modeb. We
"shall conform to the sta	te diagram in Figure 145-26	and Figure 14	5-29."	Suggested	dRemedy				
			5.20,				age 178 after line 43: "The		
to				parts o	code, class_	-	and class_sig_B as descril	ped by Table 14	5-24 and Table 145-25.
"shall conform to the sta	te diagram in Figure 145-26	or Figure 145-2	9;"	Response			Response Status C		
Response	Response Status C			ACCE	PT IN PRIN	CIPLE.			
ACCEPT.				Chang	ge 178, 16 to:	:			
C/ 145 SC 145.3.6	P 177	L 19	# 98	The re	esponse of th	e PD to	o Multiple-Event classificat	ion consists of	two class signatures,
Bullock, Chris	Cisco System	S					g_B as described by Table		
Comment Type TR	Comment Status A						ent Physical Layer classific d DO_CLASS_EVENT2 ar		
A PD is either single-sig	nature or dual-signature, bu	t never both. as	suggested in the	C/ 145	SC 145.3	6	P 177	L 22	# 38
following statement: "PD classification behave	vior:			Abramson			Texas Instrum		
	ate diagram in Figure 145-20	6, and Figure 14	5-29;"	Comment	·		Comment Status A		Editoria
SuggestedRemedy					• •		or class_sig_B in accordar	ce with the PD	
Replace:							and Table 145-25, with the		
"PD classification behav			F 00 #	signatures specified in Table 145-24 and Table 145-25."					
- shall conform to the st	ate diagram in Figure 145-2	6, and Figure 14	5-29;"	Suggested	dRemedy				
With: "PD classification behav	ior				ve : ", with th 145-25"	e corre	esponding classification sig	natures specifie	ed in Table 145-24 and
	ate diagram in Figure 145-20	6, or Figure 145	-29;"	Response			Response Status C		
Response	Response Status W				PT IN PRIN				
ACCEPT IN PRINCIPLE	E.								
Change				specifi		145-24	or class_sig_B in accordar and Table 145-25, with the ble 145-23."		
shall conform to the sta	te diagram in Figure 145-26	6, and Figure 14	5-29;"	2.9/100					
to									
	te die mens in Firmer 445.00								
"snall conform to the sta	te diagram in Figure 145-26	or Figure 145-2	9;"						

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 **177** Li **22** Page 72 of 103 3/16/2017 10:31:48 AM

Cl 145 SC 145.3.6 Darshan, Yair	P 177 Mirosemi	L 32	# 169	C/ 145 Walker, Dvl	SC 145.3.6.1		L 16	# 288
"PDMaxPowerValue_r	Mirosemi <i>Comment Status</i> A ace "PDMaxPowerValue_mod mode(X)" and "Assigned Class igned Class for Mode X" <i>Response Status</i> C LE.		Pres: Darshan4	MEPLC Also, w improve Suggested Change "PDs in during I	Type E rding in this ser can add a ser ement. Remedy e nplementing Mu DO_CLASS_EN	Cisco <i>Comment Status</i> A ntence feels inconsistent sin- rial comma and remove super- litiple-Event Physical Layer of /ENT1 and DO_CLASS_EV DO_CLASS_EVENT4, DO	erfluous white sp classification sha ENT2 and class	ace in the process of all present class_sig_A _sig_B during
### ### ### Comment 351 has the ACCEPT IN PRINCIP Adopt darshan_04_03	LE.			to "During DO_CL DO_CL DO_CL <i>Response</i> ACCEF	– Multiple-Event ASS_EVENT1 ASS_EVENT3, ASS_EVENT6,	as defined in Table 145-24 Physical Layer classification and DO_CLASS_EVENT2 a DO_CLASS_EVENT4, DO as defined in Table 145-24 <i>Response Status</i> C in the serial comma competi	n, a PD shall pre and class_sig_B _CLASS_EVEN and Table 145-2	sent class_sig_A during during T5, and
				Cl 145 Abramson, Comment T class_s Suggestedf Replace Response ACCEF	SC 145.3.6.1 David Type E sig_0 is not defin Remedy e "present class PT IN PRINCIPL	P 178 Texas Instru <i>Comment Status</i> A ned anywhere s_sig_0" with "present a clas <i>Response Status</i> C	L 19 ments s signature of '0	# <u>39</u> "

Pa **178** Li **19**

C/ 145 SC 145.3.6.1	P 178	L 19	# 394	C/ 145 SC 145.3.6	.1 P 178	L 34	# 289
Yseboodt, Lennart	Philips			Walker, Dylan	Cisco		
Comment Type T	Comment Status A		PD Class	Comment Type E	Comment Status D		Editoria
"PDs implementing Auto	oclass shall present class_s .UTO as defined in 145.3.6.2	ig_0 during		In the last sentence,	'PDs" should be possessive		
DO_CLASS_EVENT_A	1010 as defined in 145.5.6.2	-		SuggestedRemedy			
Unlike class_sig_A, 'cla	ss_sig_0' is undefined.			Change			
SuggestedRemedy				"Based on the value	of pse_power_level and the	PDs requested Cl	lass, pd_req_class, the
	ementing Autoclass shall pre O_CLASS_EVENT_AUTO a			Ū.	ived in the variable pse_ass	igned_class."	
Response	Response Status C			to			
ACCEPT IN PRINCIPLI					of pse_power_level and the ived in the variable pse_ass		class, pd_req_class, the
	ementing Autoclass shall pre O_CLASS_EVENT_AUTO a			Proposed Response	Response Status Z	-	
-				REJECT.			
C/ 145 SC 145.3.6.1 Jones, Chad	P 178	L 26	# 180	This comment was M	ITHDRAWN by the comme	nter	
	())20)						
Comment Type TR	Cisco		PD Class	This continent was w			
21	Comment Status A	amount of powe	PD Class				
"The requested Class o on that pairset." This sh		nissing the shall	r requested by the PD				
"The requested Class o on that pairset." This sh shall on pg 177 ln 4 isn'	Comment Status A In a pairset is the maximum hould be normative. We are r	nissing the shall	r requested by the PD				
"The requested Class o on that pairset." This sh shall on pg 177 In 4 isn' SuggestedRemedy	Comment Status A on a pairset is the maximum ould be normative. We are n 't specific enough to cover th sted Class on a pairset is the	nissing the shall is case).	r requested by the PD I for this restriction. (the				
"The requested Class o on that pairset." This sh shall on pg 177 In 4 isn' SuggestedRemedy change to : "The reques signature PD shall draw	Comment Status A on a pairset is the maximum ould be normative. We are n 't specific enough to cover th sted Class on a pairset is the	nissing the shall is case).	r requested by the PD I for this restriction. (the				
"The requested Class o on that pairset." This sh shall on pg 177 In 4 isn' SuggestedRemedy change to : "The reques signature PD shall draw	Comment Status A on a pairset is the maximum hould be normative. We are n 't specific enough to cover th sted Class on a pairset is the on that pairset." Response Status W	nissing the shall is case).	r requested by the PD I for this restriction. (the				
"The requested Class o on that pairset." This sh shall on pg 177 In 4 isn' <i>SuggestedRemedy</i> change to : "The reques signature PD shall draw <i>Response</i>	Comment Status A on a pairset is the maximum hould be normative. We are n 't specific enough to cover th sted Class on a pairset is the on that pairset." Response Status W	nissing the shall is case).	r requested by the PD I for this restriction. (the				
"The requested Class o on that pairset." This sh shall on pg 177 In 4 isn' SuggestedRemedy change to : "The reques signature PD shall draw Response ACCEPT IN PRINCIPLI	Comment Status A on a pairset is the maximum hould be normative. We are n 't specific enough to cover th sted Class on a pairset is the on that pairset." Response Status W	nissing the shall is case).	r requested by the PD I for this restriction. (the				
"The requested Class o on that pairset." This sh shall on pg 177 In 4 isn" SuggestedRemedy change to : "The reques signature PD shall draw Response ACCEPT IN PRINCIPLI OBE by 37	Comment Status A on a pairset is the maximum ould be normative. We are no 't specific enough to cover the sted Class on a pairset is the on that pairset." Response Status W E.	nissing the shall is case).	r requested by the PD I for this restriction. (the				
"The requested Class o on that pairset." This sh shall on pg 177 In 4 isn' SuggestedRemedy change to : "The reques signature PD shall draw Response ACCEPT IN PRINCIPLI OBE by 37 ### ### ### Comment 37 has the fo	Comment Status A on a pairset is the maximum ould be normative. We are no 't specific enough to cover the sted Class on a pairset is the on that pairset." Response Status W E.	nissing the shall is case).	r requested by the PD I for this restriction. (the				
"The requested Class o on that pairset." This sh shall on pg 177 In 4 isn' SuggestedRemedy change to : "The reques signature PD shall draw Response ACCEPT IN PRINCIPLI OBE by 37 ### ### ### Comment 37 has the fo ACCEPT IN PRINCIPLI	Comment Status A on a pairset is the maximum ould be normative. We are no 't specific enough to cover the sted Class on a pairset is the on that pairset." Response Status W E.	nissing the shall is case).	r requested by the PD I for this restriction. (the				
"The requested Class o on that pairset." This sh shall on pg 177 In 4 isn" SuggestedRemedy change to : "The reques signature PD shall draw Response ACCEPT IN PRINCIPLI OBE by 37 ### ### ### Comment 37 has the fo ACCEPT IN PRINCIPLI OBE by 393 ### ### ### Comment 393 has the f	Comment Status A In a pairset is the maximum fould be normative. We are no it specific enough to cover the sted Class on a pairset is the on that pairset." Response Status W E. Illowing response: E.	nissing the shall is case).	r requested by the PD I for this restriction. (the				
"The requested Class o on that pairset." This sh shall on pg 177 In 4 isn' SuggestedRemedy change to : "The reques signature PD shall draw Response ACCEPT IN PRINCIPLI OBE by 37 ### ### ### Comment 37 has the fo ACCEPT IN PRINCIPLI OBE by 393 ### ### ###	Comment Status A in a pairset is the maximum in ould be normative. We are no it specific enough to cover the sted Class on a pairset is the on that pairset." Response Status W E. Moving response: E.	nissing the shall is case).	r requested by the PD I for this restriction. (the				

Pa **178** Li **34**

C/ 145 SC 145.3.6 Walker, Dylan	.1 P 178 Cisco	L 40	# 307		<i>Cl</i> 145 Walker, Dyl	SC 145.3.6.1 an		P 180 Cisco	L 20	# 291	
Comment Type T Last sentence should "pd_max_power_mod	Comment Status A I refer to "pse_assigned_clas de(M)".	s(M)" rather than		PD Class	Comment T First se SuggestedF	ntence needs a	Comment St comma for read				Editoria
Also, "PDs" should b	e possessive in this case.				Change	-					
	of pse_power_level_mode(M M), the assigned Class is der e(M)."				shown i	n the state diag ed in Table 14	ram of Figure 1	45-26 and Fig	gure 145-29 the	_EVENT state as PD shall draw I M ure as defined in	Mark
	of pse_power_level_mode(M) M), the assigned Class is der e(M)."				shown i as defir 145-21.	n the state diag ed in Table 14	ram of Figure 1 5-26 and presen	45-26 and Fig t a non-valid	gure 145-29, the	_EVENT state as PD shall draw I ure as defined in	Mark
lesponse	Response Status C				Response ACCEP	T IN PRINCIPL	Response Sta .E.	atus C			
ACCEPT IN PRINCIF	PLE. of pse_power_level_mode(M)				Change						
ACCEPT IN PRINCIF "Based on the value pd_req_class_mode(pse_assigned_class_	PLE. of pse_power_level_mode(M) M), the assigned Class is der _mode(M)."	ived in the variabl	le		"When shown i	the PD is prese n the state diag	ram of Figure 1	45-26 and Fig	gure 145-29, the	_EVENT state, a PD shall draw I ure as defined in	Mark
ACCEPT IN PRINCIF "Based on the value pd_req_class_mode(pse_assigned_class_ / 145 SC 145.3.6 /alker, Dylan	PLE. of pse_power_level_mode(M) M), the assigned Class is der _mode(M)."			Editorial	"When shown i as defir 145-21. C/ 145	the PD is prese n the state diag ied in Table 145 " SC 145.3.6.1	pram of Figure 1 5-26 and presen	45-26 and Fig t a non-valid <i>P</i> 180	gure 145-29, the detection signat <i>L</i> 21	PD shall draw I	Mark
ACCEPT IN PRINCIF "Based on the value pd_req_class_mode(pse_assigned_class_ / 145 SC 145.3.6 /alker, Dylan omment Type E Table 145-26, "Additi	PLE. of pse_power_level_mode(M) M), the assigned Class is der _mode(M)." .1 P 180 Cisco	ived in the variabl	le # 290	Editorial	"When shown i as defir 145-21.	the PD is prese n the state diag led in Table 144 " SC 145.3.6.1 ath	pram of Figure 1 5-26 and presen	45-26 and Fig t a non-valid <i>P</i> 180 Linear Tech C	gure 145-29, the detection signat <i>L</i> 21	PD shall draw I ure as defined in # 232	Mark
ACCEPT IN PRINCIF "Based on the value pd_req_class_mode(pse_assigned_class_ / 145 SC 145.3.6 /alker, Dylan comment Type E Table 145-26, "Additi 145.3.6.1.1. Instead,	PLE. of pse_power_level_mode(M) (M), the assigned Class is def _mode(M)." .1 P 180 Cisco Comment Status A onal information" column, "V	ived in the variabl	le # 290	Editorial	"When shown i as defir 145-21. C/ 145 Stewart, He Comment T Figure r SuggestedF	the PD is prese n the state diag red in Table 145 <i>SC</i> 145.3.6.1 ath <i>Type</i> E reference lost d <i>Remedy</i>	ram of Figure 1 5-26 and presen .1 <i>Comment St</i> uring edit.	45-26 and Fig t a non-valid P 180 Linear Tech (atus A	gure 145-29, the detection signat <i>L</i> 21	PD shall draw I ure as defined in # 232	Mark Table
ACCEPT IN PRINCIF "Based on the value pd_req_class_mode(pse_assigned_class_ / 145 SC 145.3.6 /alker, Dylan comment Type E Table 145-26, "Additi 145.3.6.1.1. Instead, uggestedRemedy	PLE. of pse_power_level_mode(M) (M), the assigned Class is def _mode(M)." .1 P 180 Cisco Comment Status A onal information" column, "V	ived in the variabl	le # 290	Editorial	"When shown i as defir 145-21. C/ 145 Stewart, He Comment T Figure r SuggestedF Add Fig Response	the PD is prese n the state diag red in Table 145 <i>SC</i> 145.3.6.1 ath <i>Type</i> E reference lost d <i>Remedy</i>	ram of Figure 1 5-26 and presen .1 <i>Comment St</i> uring edit. st after Figure 1 <i>Response Sta</i>	45-26 and Fig t a non-valid P 180 Linear Tech (atus A 45-26.	gure 145-29, the detection signat <i>L</i> 21	PD shall draw I ure as defined in # 232	Mark Table
ACCEPT IN PRINCIP "Based on the value pd_req_class_mode(pse_assigned_class_ 2/ 145 SC 145.3.6 Valker, Dylan Comment Type E Table 145-26, "Additi 145.3.6.1.1. Instead, SuggestedRemedy Change "See 145.3.6.1.1"	PLE. of pse_power_level_mode(M) (M), the assigned Class is def _mode(M)." .1 P 180 Cisco Comment Status A onal information" column, "V	ived in the variabl	le # 290	Editorial	"When shown i as defir 145-21. C/ 145 Stewart, He Comment T Figure r SuggestedF Add Fig Response	the PD is prese n the state diag ed in Table 145 " SC 145.3.6.1 ath <i>type</i> E reference lost d Remedy pure 145-27 to li	ram of Figure 1 5-26 and presen .1 <i>Comment St</i> uring edit. st after Figure 1 <i>Response Sta</i>	45-26 and Fig t a non-valid P 180 Linear Tech (atus A 45-26.	gure 145-29, the detection signat <i>L</i> 21	PD shall draw I ure as defined in # 232	Mark Table

C/ 145 SC 145.3.6.1.1 P 180 L 27 # 292 Walker, Dylan Cisco	C/ 145 SC 145.3.6.2 P 180 L 41 # 294 Walker, Dylan Cisco
Comment Type E Comment Status A Editorial	Comment Type E Comment Status A
Since all PDs in Clause 145 must implement MEPLC, this sentence can be optimized.	Sentence has an out of place "and".
SuggestedRemedy	SuggestedRemedy
Change	Change
"V Mark_th is the PI voltage threshold at which the PD implementing Multiple-Event class signature transitions into, and one of the voltage thresholds to transition out of, the DO_CLASS_EVENT states as shown in Figure 145-26 and Figure 145-29."	"A PD implementing Autoclass shall respond to Physical Layer classification as specified in and 145.3.6.1 with the exception that the PD shall change its current during the first class event to class signature '0' no earlier than T ACS min and no later than T ACS max, as defined in Table 145-27."
to	to
"V Mark_th is the PI voltage threshold at which the PD transitions into, and one of the voltage thresholds to transition out of, the DO_CLASS_EVENT states as shown in Figure 145-26 and Figure 145-29."	"A PD implementing Autoclass shall respond to Physical Layer classification as specified in 145.3.6.1 with the exception that the PD shall change its current during the first class event
Response Response Status C	to class signature '0' no earlier than T ACS min and no later than T ACS max, as defined in Table 145-27."
ACCEPT IN PRINCIPLE.	Response Response Status C
Change to	ACCEPT.
"V Mark_th is the PI voltage threshold at which the PD transitions into, and one of the voltage thresholds the PD transitions out of, the DO_CLASS_EVENT states as shown in Figure 145-26 and Figure 145-29."	C/ 145 SC 145.3.6 P 180 L 41 # 233 Stewart, Heath Linear Tech Corp Linear Tech Corp <td< td=""></td<>
C/ 145 SC 145.3.6.1.1 P 180 L 31 # [293	Comment Type E Comment Status A Editorial
Walker, Dylan Cisco	An extra space and "and" has been inserted.
Comment Type E Comment Status A Editorial	SuggestedRemedy
All PDs in Clause 145 must implement MEPLC.	Change classification as specified in and
SuggestedRemedy	to
Change	classification as specified in
"V Reset_th is the PI voltage threshold at which the PD implementing Multiple-Event class signature transitions from a DO_MARK_EVENT state to the IDLE state as shown in Figure 145-26 and Figure 145-29."	Response Response Status C ACCEPT.
to	
"V Reset_th is the PI voltage threshold at which the PD transitions from a DO_MARK_EVENT state to the IDLE state as shown in Figure 145-26 and Figure 145-29."	
Response Response Status C	
ACCEPT.	
TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/g COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/w	

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

Li **41**

3/16/2017 10:31:48 AM

C/ 145 SC 145.3. Walker, Dylan	.6.2 <i>P</i> 181 Cisco	L 1	# 295	Cl 145 SC 14 Yseboodt, Lennart		2 181 <i>L</i> 20 ilips	# 395
SuggestedRemedy Change "V PD falls below level, up to the requ	Comment Status A e has a space before the period. v V Reset_th, unless the PD suc uested Physical Layer classificat	cessfully nego		"PDs may deter of the first class event is longer t class event is lo FALSE, which in	TR Comment State mine the Type of the PSE event. Such a PD may se than T LCE_PD min and so nger than T LCE_PD ma: ndicates the PSE is a Type e PSE is a Type 3 or Type	E they are connected to be tet long_class_event to T shall set long_class_event x. The default value for love to Type 2 PSE. If lor	nt to TRUE if the first ong_class_event is
classification as def	fined in 145.5"			2. Behavior doe	jet rid of the notion of defa s not match state diagran		
	V Reset_th, unless the PD suc uested Physical Layer classificat fined in 145.5." Response Status C			"If long_class_e	to last sentence by: event is FALSE, this indica ss_event <= FALSE" to th		
ACCEPT.				Response ACCEPT IN PR	Response Statu	ıs C	
				the definition of Type of PSE co function is used of the first class FALSE."	45, subclause 145.3.3.6, p the function "do_class_tir nnected to the PI by mea to evaluate the Type of F event. PDs that do not n 45, subclause 145.3.3.6, p	ning" from "This function suring the length of the f PSE connected to the PI neasure the length of the	is used to evaluate the irst class event." to "This by measuring the length a first class event return

2. Clause 145, subclause 145.3.3.6, page 166, line 2: Change the definition of the value FALSE for the variable "long_class_event" from "The PSE is identified as a Type 1 or Type 2 PSE." to "The PSE is identified as a Type 1 or Type 2 PSE, or the PD has not measured the length of the first class event."

Pa **181** Li **20**

C/ 145 SC	145.3.8	P 182	L 1	# 396	C/ 145 SC	145.3.8.1	P 184	L 7	# 87
Yseboodt, Lenna	irt	Philips			Bennett, Ken		Sifos Technol	ogies, In	
Comment Type	TR	Comment Status A		PD Power	Comment Type	т	Comment Status A		PD Pov
Table 145-28 Comment #4	I51 has this	ementing comment #451 aga in the suggested remedy, b ecause right now there is no	ut the response	e didn't.		or of a PD a	t is incorrect: at a voltage outside of VPort_ DELAY or POWERED state, i		
		nd PPort_PD-2P as they were	e in D2.2		Voff_PD, Vo SuggestedReme	_	D-2P, and Vtransient_PD-2P	are all example	es where this is not true
Response ACCEPT.		Response Status W			Remove (or	revise) the	sentence.		
ACCEPT.					Response		Response Status C		
This commer	nt resolves	comment: 88			ACCEPT IN	PRINCIPL	E.		
Cl 145 SC Darshan, Yair	145.3.8	P 182 Mirosemi	L 10	# 158	Change to: POWERED		s below Voff_PD once a PD	has reached th	e POWER_DELAY or
and 4.	· ·	Comment Status D overload-2P): The maximum	value=57V is r	<i>PD Power</i> nissing for both types 3	Also, add TD Notes from d	,	, Dave A., Yair): Figure out h	now to fix the N	oPower State.
Proposed Respo	aximum va	lue of Table 145-28 item 3 (Response Status Z	Voverload-2P)	and set it to 57V.		ndefined?	with this sentence. The one No, the PD must still meet the the PD must still meet the the provided states of the p		
REJECT.					Since the SE	only trans	itions to NOPOWER based of	on Voff_PD, ho	w about:
	145.3.8	HDRAWN by the commente P 183 Philips	r. L 30	# 312	state, the PD	's behavio	_PD once a PD has reached r, with the exception of the el and Table 145-26, is undefin	ectrical parame	eters defined in Table
Comment Type	ER	Comment Status A Ripple and Noise, additional i	nformation: "S	PD Power ee 145.3.8.7. Balanced	HS: Undefined be	est means	undefined. New text is limitin	g.	
source imped	dance: R_C					en a compl	ny point is to limit the scope iant PD can draw infinite curi		
SuggestedReme	dy	e impedance: R_Ch."							
Response ACCEPT.		Response Status C							

Pa **184** Li **7**

C/ 145 SC 145.3.8.2	P 184	1.44	# [00]	C/ 145	SC 145.3.8.1	P 184	L 13	# 234
Bennett, Ken	Sifos Technolo	L 11	# 88	Stewart, Heat		Linear Tech (# 234
		gies, in					Colp	
Comment Type E	Comment Status A		PD Power	Comment Ty		Comment Status A		Editorial
The first sentence of this 28, however that table no	section references PClass_ longer has them listed.	PD and PClass	s_PD-2P in table 145-			e idea of PD requested Clas which makes search strings		are multiple ways of
input average power, with	were previously used in the a corresponding maximum li ort variables caused PClass 28	mits of PClass	_PD, PClass_PD-2P.		globally all occ	currences of "Class requeste quested Class" <i>Response Status</i> C	d by/of the PD" a	and "requested Class
SuggestedRemedy				ACCEPT	IN PRINCIPL	E.		
Restore the variables and	I the input average power se	ections in Table	e 145-28.					
Response	Response Status C			Editor giv	en license to	implement this change less	than globally if n	eeded.
ACCEPT IN PRINCIPLE.				<i>Cl</i> 145 Walker, Dylai	SC 145.3.8.2 n	P 184 Cisco	L 17	# 296
OBE by 396				Comment Ty	pe E	Comment Status A		Editorial
### ### ###				,		ou're welcome, Dave!		Editorial
Comment 396 has the fol	lowing response:			SuggestedRe				
ACCEPT.				Change	emeay			
Suggested remedy: Re-instate PPort_PD and	PPort_PD-2P as they were	in D2.2		Change				
C/ 145 SC 145.3.8.2 Darshan, Yair	P 184 Mirosemi	L 11	# 164		able 145-28 o	e power, P Class_PD or P C r PDMaxPowerValue in 145.		
Comment Type TR	Comment Status D		Pres: Darshan12	to				
assigned Class. PClass_ 2P values for each Class Table 145-24 and Table 1	nd PClass_PD-2P in Table ⁴ PD values for each Class ar are shown in Table 145-25. I45-25. In addition some info	e shown in Tal " are not in Tal	ble 145-24, PClass_PD- ble 145-28. They are in		Table 145-28 c	e power, P Class_PD or P C or PDMaxPowerValue in 145		
PClass_PD and PClass_	PD-2P should be met.			Response		Response Status C		
SuggestedRemedy See darshan_12_0317.pd	Jf			ACCEPT				
Proposed Response REJECT.	Response Status Z							
This comment was WITH	DRAWN by the commenter							

Pa **184** Li **17**

C/ 145 SC 145.3 Stewart, Heath	.8.2.1 P 184 Linear Teo	L 31 ch Corp	# 235	<i>Cl</i> 145 Walker, Dyl	SC 145.3.8 . an		<i>P</i> 185 Cisco	L 15	# 297
Comment Type TR The text allows bot	Comment Status D h PSE and PD to reclaim the	IR drop in the cable	Pres: Stewart1 e.	Comment T Last se	51	Comment Sta couple of commas		o go.	Editoria
SuggestedRemedy Adopt hstewart_01	_0317_Pcon.pdf			SuggestedF Change	2				
Proposed Response REJECT.	Response Status Z					requirement by eit y limiting the inpu			2P charged within T
This comment was	WITHDRAWN by the commo	enter.		to					
Cl 145 SC 145.3 Yseboodt, Lennart	.8.2.1 <i>P</i> 184 Philips	L 37	# 313			requirement by eit limiting the input			2P charged within T
"For Class 5 dual-s	mment Type TR Comment Status A Pres: Stewart 1 "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					Response Sta	atus C		
consume greater t	annel DC resistance betweer nan P Class_PD-2P but shall all not draw current in excess	not consume great	er than P Class-2P at	C/ 145 Walker, Dyl	SC 145.3.8 . an		P 185 Cisco	L 21	# 298
PClass-2P applies	to a pairset, not the complete	PSE PI.		Comment Type E Comment Status A Edito					
SuggestedRemedy				0		singular in the not	e.		
	nsume greater than P Class-2	2P on the pairset at	t the PSE PI and"	SuggestedF Change	,				
Response ACCEPT.	Response Status C			Ū.					
AUGEPT.						subjected to PSE aches 99% of stea			during inrush when the) max."
				to					
						subjected to PSE thes 99% of stead			during inrush when the max."
				Response ACCEF	·Т.	Response Sta	atus C		

Pa **185** Li **21**

Yseboodt, Lennart Philips Stewart, Heath Linear Tech Corp Comment Type TR Comment Status A PD Inrush "Input inrush currents at startup, I Inrush_PD and I Inrush_PD-2P, as defined in Table 145- 28, are limited by the PSE if C Port < 180 mF for single-signature PDs assigned to Class 0 to 6, and if C Port < 360 mF for PDs assigned to Class 7 or 8."	# 236 PD Inrusi
"Input inrush currents at startup, I Inrush_PD and I Inrush_PD-2P, as defined in Table 145- 28, are limited by the PSE if C Port < 180 mF for single-signature PDs assigned to Class 0 to 6, and if C Port < 360 mF for PDs assigned to Class 7 or 8." Inrush current is limited regardless of the value of CPort. The value of CPort determines if	
28, are limited by the PSE if C Port < 180 mF for single-signature PDs assigned to Class 0 to 6, and if C Port < 360 mF for PDs assigned to Class 7 or 8."	
to 6, and if C Port < 360 mF for PDs assigned to Class 7 or 8." Inrush current is limited regardless of the value of CPort. The value of CPort determines if Response Response Response Response Response Response	
the PD can expect to get successfully inrushed by the PSE if the PD does not implement	
its own current control. Also those currents arent limited to IInrush_PD, but to IInrush. Also ACCEPT IN PRINCIPLE.	
SuggestedRemedy OBE by 314	
Insert the following at line 9:	
Comment 314 has the following response:	
"A PSE limits the inrush current to Ilnrush and linrush-2P, defined in Table 145-16, ACCEPT.	
which is sufficient current to charge CPort or CPort-2P to VPort_PSE-2P when: Suggested remedy:	
- CPort < 180uF for single-signature PDs assigned to Class 1 through 6 Insert the following at line 9: - CPort < 360uF for single-signature PDs assigned to Class 7 or 8	
- CPort-2P < 110uF for dual-signature PDs assigned to Class 1 through 4 "A PSE limits the inrush current to Ilnrush and linrush-2P, defined in T	able 145-16,
- CPort-2P < 180uF for dual-signature PDs assigned to Class 5" which is sufficient current to charge CPort or CPort-2P to VPort_PSE-2P w	
- CPort < 180uF for single-signature PDs assigned to Class 1 thro	
Delete lines 31-37 (the quoted text + its dual-sig variant) CPort < 360uF for single-signature PDs assigned to Class 7 or 8	
Delete "The inrush current is limited by the PSE" on line 8 CPort-2P < 110uF for dual-signature PDs assigned to Class 1 thro	ugh 4
Response Response Status W - CPort-2P < 180uF for dual-signature PDs assigned to Class 5"	
ACCEPT. Delete lines 31-37 (the quoted text + its dual-sig variant).	
Delete "The inrush current is limited by the PSE" on line 8.	
This comment resolves comment: 236	

Pa **185** Li **33**

C/ 145 SC 145.3.8.3 P185 L 37 # 208	C/ 145 SC 145.3.8.4.1 P 187 L 22 # 315
Schindler, Fred Seen Simply, Cisco, T Comment Type TR Comment Status D PD Inrush When PDs are tested it is common practice to power them on directly with a bench power supply. This is supported by requirements that PDs accept voltages from 0 to 57V on the PI (145.3.1). SuggestedRemedy At the end of the section Input inrush current section add, "PDs may be powered by bench power supplies for testing purposes when the supply current is limited to ILIM-2P provided in 145.2.8.7." Image: Comment Status D Image: Comment Status D	Yseboodt, Lennart Philips Comment Type TR Comment Status D Pres: Yseboodt The peak operating power exceptions section needs some fixing. SuggestedRemedy Adopt yseboodt_05_0315_peakpowerfix.pdf Proposed Response Response Status Z REJECT. This comment uses WITLIDE AWAL by the commenter
Alternatively, we could omit this text if Task Force participants feel that no current limits are required. Resolution to this comment may affect how comments related to 145.3.1 are handled.	This comment was WITHDRAWN by the commenter. C/ 145 SC 145.3.8.4.1 P 187 L 26 # 89 Bennett, Ken Sifos Technologies, In
Proposed Response Response Status Z REJECT. This comment was WITHDRAWN by the commenter. Cl 145 SC 145.3.8.4 P 186 L 39 # [167] Darshan, Yair Mirosemi	Comment Type T Comment Status A PD Power The change made to this section for draft 2.3 replaced Pport_PD(-2P) Max with PClass_PD(-2P). As a result, the peak power limit for the exception is now the same as (or less than) the peak power limit for normal operation. PD Power Average-power-limit variables for the exception are needed for equations: Ppeak_PD = 1.05 x and Ppeak_PD-2P = 1.05 x
Comment Type TR Comment Status A Pres: Darshan9 Proposed Remedy for comment #385 D2.2 regarding Irms. If Pclass_PD is met SuggestedRemedy See darshan_09_0317.pdf Response Response Status C ACCEPT IN PRINCIPLE.	Note: If the peak power limit is instead referenced back to PClass at the PSE PI, it becomes a much more complex calculation, involving cable losses. The simple equations above inherently meet the limits at PSE PI. SuggestedRemedy Reinstate Pport_PD max and Pport_PD-2P max variables for this section, -or-
adopt pages 3 and 4 of darshan_09_0317_final.pdf with editorial license to fix commas (and other grammar).	Introduce new variables which describe the maximum-average-power limit as determined by the PD under the 145.3.8.2.1 exception.

Pa **187** Li **26**

C/ 145 SC 145.3.8.5 P 188 L 12 # 90 Bennett, Ken Sifos Technologies, In	Cl 145 SC 145.3.8.6 P 188 L 23 # 91 Bennett, Ken Sifos Technologies, In					
Comment Type E Comment Status A Editorial References to "Peak Transient Current" have changed to "Input Current Slew Rate" in table 145-28 and in this section. Example 145-28 Example 145-28	Comment Type T Comment Status A PD Power 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". PD Power					
SuggestedRemedy Change the title to "Input Current Slew Rate".	This is no longer true, because PDs can be demoted to an assigned class with different TLim and ILim characteristics.					
Response Response Status C ACCEPT.	SuggestedRemedy Delete the text starting at line 23 ("A single signature PD includes") and ending at line 36, just after the list of PD types and capacitances.					
CI 145 SC 145.3.8.6 P 188 L 20 # 209 Schindler, Fred Seen Simply, Cisco, T Comment Type TR Comment Status A PD Power This comment closes a TODO related to D2.2 #87 and #96 for Ken and Fred.	Response Response Status C ACCEPT IN PRINCIPLE. Part of TDL for comment 209.					
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.	Cl 145SC 145.3.8.6P 188L 40# 316Yseboodt, LennartPhilipsComment TypeEComment StatusAEditorialTable 145-29 has a redundant Type column.					
SuggestedRemedy Keep text as is. Do not change 146.3.8.6 to accommodate D2.2 #87 or #96, because changes that reduce the burden on the PSE, such as changing or reducing the current or charging time may result in failures.	SuggestedRemedy Remove it. Response Response Status C ACCEPT.					
Response Response Status C ACCEPT IN PRINCIPLE.	Cl 145 SC 145.3.8.6 P 188 L 49 # 159 Darshan, Yair Mirosemi					
Add TDL (Yair, Fred): Fix PSE section so that PSEs that lower current limit based on class increase Tlim (or something) in order to deliver needed charge.	Comment Type ER Comment Status A Editoria The text in page 188 lines 49-53 addressing Table 145-29 should be located before Table 145-29 SuggestedRemedy					
	Move Table 145-29 after lines 49-53 in page 188.					
	Response Response Status W ACCEPT IN PRINCIPLE.					
	Editor to follow guidelines for Table placement.					

Pa **188** Li **49**

C/ 145	SC 145.3.8.6	P 190	L 1	# 317	C/ 145 SC	145.3.8.7	P 190	L 15	# 318
'seboodt, L	ennart	Philips			Yseboodt, Lenna	rt	Philips		
Comment T	ype TR	Comment Status A		PD Power	Comment Type	т	Comment Status A		Editorial
incredib	oly complex way t	nt section there is a remnar o describe I_LIM-2P min +		which seems an	common-mo	de and/or d	oise_PD , the specification f ifferential pair-to-pair noise g voltages in the range of V	at the PD PI gen	erated by the PD
SuggestedF	2				input power of				<u>j</u>
- Chang		r Figure 145-33 to reflect c		ōmA	- Sentence s - "over the ra		over itself. t power" is a redundant qua	lifier of this requi	rement
Response		Response Status C			SuggestedReme	dy			
ACCEP	ΥТ.				Replace by:	-			
<i>Cl</i> 145 Walker, Dyl	SC 145.3.8.7 an	<i>P</i> 190 Cisco	L 12	# 299	the PD PI ge	nerated by	bise_PD, the common-mod the PD circuitry, as defined V Port_PD-2P".		
Comment T	vpe E	Comment Status A		Editorial	Response		Response Status C		
		ad well. Taking a stab at a	n improvement		ACCEPT IN	PRINCIPLE			
	th the 2 existing F		•	,	OBE by 299				
SuggestedF	Remedy				OBL by 299				
Rephra	se				### ### ###				
commo	n-mode and/or di	bise_PD , the specification fferential pair-to-pair noise voltages in the range of V	at the PD PI ge	nerated by the PD	Comment 29 ACCEPT IN		bllowing response:		
	ower of the device		FUILFD-2F, ai	iu over the range of			oise_PD, defined in Table 1 oise at the PD PI generated		
as					applies for al	l operating	voltages in the range of V P I when connected to any so	ort_PD-2P, over	the range of input
commo circuitry	n-mode and/or di v. V Noise_PD sh e range of input p	cation for ripple and noise fferential pair-to-pair noise all apply for all operating vo ower of the device, and wh	at the PD PI ge oltages in the ra	nerated by the PD nge of V Port_PD-2P,					
Response		Response Status C							
ACCEP	T IN PRINCIPLE								
differen applies	tial pair-to-pair no for all operating v	bise_PD, defined in Table 1 bise at the PD PI generated voltages in the range of V F when connected to any so	I by the PD circ Port_PD-2P, ove	uitry. V Noise_PD or the range of input					
This co	mment resolves o	comment: 318							

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 **190** Li **15**

Cl 145 SC 145.3.8.7 Yseboodt, Lennart	P 190 Philips	L 22	# 319	Cl 145 SC 145.: Tuenge, Jason	3.8.10	P 190 Pacific North	L 40 west Nati	# 279
"The system designer is a and PD generate" SuggestedRemedy Redundant words remove "Assume the worst-case of				Comment Type E For consistency ar SuggestedRemedy Change "section" t Response ACCEPT.	nd clarity. o "subclause".	ent Status A		Editoria
ACCEPT IN PRINCIPLE.	-			Cl 145 SC 145. Walker, Dylan	3.8.10	P 190 Cisco	L 41	# 300
"The worst-case condition	is when both PSE and Pl	D generate."		Comment Type E There is a comma		ent Status A loving.		Editoria
Cl 145 SC 145.3.8.10 Yseboodt, Lennart	P 190 Philips	L 38	# 320	SuggestedRemedy Change				
Comment Type TR There are currently no pe SuggestedRemedy Adopt yseboodt_08_0315		s for the PD.	Pres: Yseboodt8	"The contribution of system end to end to				e to the effective
Response ACCEPT IN PRINCIPLE.	Response Status C			"The contribution of system end to end				e to the effective
adopt yseboodt_08_0317 expressions to equations.		editorial license	to move inline	Response ACCEPT.	Respons	se Status C		
Also, insert "and 5% duty Add: "Note - The duty cycle of width of 1s." below the text.	cycle" after Tcut-2p min ir the peak current is calcula		iding window with a					

Pa **190** Li **41**

-	SC 145.3.8.10		L 46	# 181	C/ 145 SC 145		P 191	L 20	# 321
Jones, Chad		Cisco			Yseboodt, Lennart		Philips		
allowable huh? SuggestedRe I don't kn	PD_max is give e common mod emedy	Comment Status A n RPair_PD_min, defined in e effective resistance in the e trying to say here. I just known roper verbiage.	powered pairs	of the same polarity."	Equation (145-8) when PD PI pairs voltage in the ran	ng states, dual-signa for longer than T CU of the same polarity ge of V Port PSE-2F	ture PDs sha T-2P min as are connected through two	defined in Table ed to all possible common mode	145-16 on any pair common source
Response ACCEPT OBE by 1		Response Status C			- dual-sig PDs are 2P) under any cirr - Icon-2P is a PSI - what this really t		t to exceed F rable to the F nat PClass_F	PClass_PD-2P (w PD PD-2P shall to on	which equates to Icon-
					SuggestedRemedy				
ACCEPT	nt 111 has the f T IN PRINCIPLI arshan_01_0313				condition has any Option 1 is the sir dual-signature PD	s option 2.	ent. ant to specify	y unbalance requ	irements for single-load
2/ 145	SC 145.3.8.10	P 191	L 12	# 210		hat dual-sigs can onl s is much more infor		ass_PD-2P, when	connected through a
chindler, Fre	red	Seen Simply	Cisco, T				inativo.		
comment Ty	vpe ER	Comment Status D		Unbalance	OPTION 1: Remo	ve the quoted parag	raph.		
"Commo	ents in a pair of mproved.	nce is the effective resistan the same polarity connecte		res and their	for longer than TC same polarity are Port_PSE-2P thro	Ds shall not exceed CUT-2P min as define connected through a	ed in Table 1 Ill possible co ode resistan	45-16 on any pai ommon source vo ces, R source_mi	ined in Table 145-25, ir, when pairs of the oltage in the range of V in and R source_max,
"Commo		entence with, nce is the parallel resistanc the same polarity in both p		ors and in-series	Option 3: Replace as follows: "Dual-signature PDs can only meet the input average power requirement of PClass_PD-2P as defined in 145.3.8, when PD PI pairs of the same polarity are connected to all possible				
Proposed Re	esponse	Response Status Z			common source v	oltage in the range o	f V Port_PS	E-2P through two	o common mode
REJECT	Γ.				resistances, R so in Figure 145-34.'		ce_max, as	defined in Equati	on (145-32) and shown
This com	nment was WIT	HDRAWN by the comment	er.		Response Response Status C ACCEPT IN PRINCIPLE.				
					Add TDL (Yair Le	ennart): Figure out h	w leab at we	ith DS unhalance	(loop 2p)

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

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

 SORT ORDER: Page, Line
 Pa

Pa **191** Li **20** Page 86 of 103 3/16/2017 10:31:48 AM

C/ 145 SC 145.3.8.1	0 <i>P</i> 191	L 36	# 276	C/ 145 SC 145.3.9	P 192	L 31	# 40
Tuenge, Jason	Pacific Northv	vest Nati		Abramson, David Texas Instruments			
Comment Type E	Comment Status A		Editorial	Comment Type E	Comment Status A		Editorial
To align with subclause	e 145.1.3, and there should b	e a comma afte	er "i.e.".	typo. "For single-singa	ture PD the"		
SuggestedRemedy				SuggestedRemedy			
Change "the system, i.	e. channel" to "the power sys	tem, i.e., chanr	nel".	"For a single-signature	PD the."		
Response	Response Status C			Response	Response Status C		
ACCEPT.				ACCEPT IN PRINCIPL	_E.		
C/ 145 SC 145.3.8.1	0 <i>P</i> 192	L 19	# 322	OBE by 182			
Yseboodt, Lennart	Philips	215	" <u>522</u>	-			
	Comment Status A		Dreas Darahard	### ### ### Oommaant 400 hoo tha			
Comment Type ER			Pres: Darshan1	Comment 182 has the ACCEPT.	tollowing response:		
Note under Figure 145	-34: cludes resistance R con whic	h is the connec	tion resistance at the	Suggested remedy:			
	ommended R con value is 0.0		ion resistance at the	line 32, change "For si	ngle-signature PD" to "For sir dual-signature PD" to "For du	0 0	11
 Introduces a named p note. 	parameter which is used only	once in the ent	ire draft: in the same				
	cond sentence. This connection connectors being used, as						
SuggestedRemedy							
"Note 1 - Rsource inclu mOhm per contact."	ides the connector resistance	e at the PD PI, v	which is typically 20				

Response

ACCEPT IN PRINCIPLE.

"Note 1 - Rsource includes the connector resistance at the PD PI, for which the maximum recommended value is 20 mOhm per contact."

Response Status C

Pa **192** Li **31**

Valker, Dylan Cisco Jones, Chad Cisco Comment Type E Comment Status A PD MPS Sentence needs an "a". Also, "PD PI" is redundant. Omment Type ER Comment Status A Edito SuggestedRemedy Change Change SuggestedRemedy Ine 32, change "For single-signature PD" to "For single-signature PD" to "For single-signature PD" to "For dual-signature PDs," Ine 32, change "For a dual-signature PD" to "For dual-signature PDs," W Port_MPS for a minimum duration of T MPS_PD measured at the PD PI followed by an optional MPS dropout for no longer than T MPDO_PD." This comment resolves comment: 40 "For a single-signature PD the MPS shall consist of current draw equal to or above I Port_MPS for a minimum duration of T MPS_PD measured at the PI followed by an optional MPS dropout for no longer than T MPDO_PD." This comment resolves comment: 40									
Sentence needs an "a". Also, "PD PI" is redundant. Urgested/Remody Change "For single-signature PD the MPS shall consist of current draw equal to or above 1 Port. MPS for a minimum duration of T MPS_PD measured at the PD PI followed by an optional MPS dropoul for no longer than T MPDO_PD." to "For a single-signature PD the MPS shall consist of current draw equal to or above 1 Port. MPS for a minimum duration of T MPS_PD measured at the PD PI followed by an optional MPS dropoul for no longer than T MPDO_PD." to "For a single-signature PD the MPS shall consist of current draw equal to or above 1 Port. MPS for a minimum duration of T MPS_PD measured at the PI followed by an optional MPS dropoul for no longer than T MPDO_PD." Esponse Response Status C ACCEPT IN PRINCIPLE. The 'a' is OBEd by 182. However, you made me realize that "at the PD PI" is in direct conflict with line 48 ('PD shall have TMPS_PD measured with a series resistance .). That is not the P1 at all. Since all specs are measured at the PI unless otherwise noted, let's just delete the PI part of the sestiences. Remove "measured at the PD PI" on line 33 and line 37. TFT HS Cant shall a test method. "A PD shall meet TMPS_PD when." Keep "measured at the PI" Response DNA: the whole point of this was that the width of the MPS puise the PSE sees is not the PI as no emeasured at the PD PI. So, we need to make sure that the puise is long enough at the PSE PI. I dont know how to do that without saying it something like "It shall be measured with the worst-case resistance.". Please help me find better test, your (HS) initial suggestion doesn't accomplish the goal as it implies the measurement still occurs at the PI.	C/ 145 SC 145.3.9 Walker, Dylan		L 32	# 301	-	2 145.3.9		L 32	# 182
buggestedRemedy Change SuggestedRemedy Change SuggestedRemedy Ine 32, change "For single-signature PD' to "For single-signature PDs," Ine 32, change "For a dual-signature PD' to "For dual-signature PDs," Ine 32, change "For a dual-signature PD' to "For dual-signature PDs," Ine 32, change "For a dual-signature PD' to "For dual-signature PDs," Ine 32, change "For a dual-signature PD' to "For dual-signature PD' to "For a single-signature PD to "For dual-signature PD." to "For a single-signature PD the MPS shall consist of current draw equal to or above I Port.MPS for a minimum duration of T MPS_PD measured at the PI followed by an optional MPS dropout for no longer than T MPD_PD_". tesponse Response Status C ACCEPT IN PRINCIPLE. The 'a' is OBEd by 182. However, you made me realize that 'at the PD PI' is in direct conflict with line 48 ("PD shall have TMPS_PD measured with a series resistance.". That is not the PI at all. Since all specs are measured at the PI on line 33 and line 37. TFT HS Cant Ishall a test method. 'A PD shall meet TMPS_PD when." Keep 'measured at the PI' So, we need to make sure that the PD PL". So, we need to make sure that the pulse is long eough at the PSE PL. I don't know how to do that without saying it something like 'it shall be measured with the worst-case resistance.". Please help me find better text, you (T4S) initial suggestion doesn't accomplish th	Comment Type E	Comment Status A		PD MPS	Comment Type	ER	Comment Status A		Editoria
Change "For single-signature PD the MPS shall consist of current draw equal to or above I Port, MPS for a minimum duration of T MPS, PD measured at the PD PI followed by an optional MPS dropout for no longer than T MPDO_PD." To "For a single-signature PD the MPS shall consist of current draw equal to or above I Port, MPS for a minimum duration of T MPS_PD measured at the PI followed by an optional MPS dropout for no longer than T MPDO_PD." To "For a single-signature PD the MPS shall consist of current draw equal to or above I Port, MPS for a minimum duration of T MPS_PD measured at the PI followed by an optional MPS dropout for no longer than T MPDO_PD." The single-signature PD the MPS shall consist of current draw equal to or above I Port, MPS for a minimum duration of T MPS_PD measured at the PI followed by an optional MPS dropout for no longer than T MPDO_PD." The single signature PD the MPS shall consist of current draw equal to or above I Port, MPS dropout for no longer than T MPDO_PD." The single signature PD the MPS shall consist of current draw equal to or above I Port, MPS dropout for no longer than T MPDO_PD." The single signature PD the MPS and have TMPS_PD measured at the PD PI" is in direct conflict with ine 48 ("PD shall have TMPS_PD measured with a series resistance .). That is no the PI at all. Since all specs are measured at the PD PI" on line 33 and line 37. TFT HS Cant shall a test method. "A PD shall meet TMPS_PD when." Keep "measured at the PI" Response DNA: the whole point of this was that the width of the MPS pulse the PSE sees is no the same as the one measured at the PD FI. J. Gow we need to make sure that the pulse is long enough at the PSE FL. I don that without waying I something like "it shall a test method. "A PD shall meet table as it implies the measurement still occurs at the PI.	Sentence needs an "a". A	so, "PD PI" is redundant.			2nd and 3rd	paragraph	under 145.3.9, 'PD' needs to	be plural and a	a comma is missing.
"For single-signature PD the MPS shall consist of current draw equal to or above I line 36, change "For a dual-signature PD" to "For dual-signature PDs," "For single-signature PD the MPS shall consist of current draw equal to or above I mesprine "For a single-signature PD the MPS shall consist of current draw equal to or above I mesprine "For a single-signature PD the MPS shall consist of current draw equal to or above I mesprine "For a single-signature PD the MPS shall consist of current draw equal to or above I mesprine "For a minimum duration of T MPS_PD measured at the PI followed by an optional MPS dropout for no longer than T MPDO_PD." This comment resolves comment: 40 "For a is OBEd by 182. However, you made me realize that "at the PD PI" is in direct conflict with line 48 ("PD shall have TMPS_PD measured with a series resistance .). That is not the PI at all. The same as the one measured at the PI unless otherwise noted, let's just delete the PI part of these sentences. Remove "measured at the PD PI" on line 33 and line 37. TFT HS TFT HS Can't shall a test method. "A PD shall meet TMPS_PD when," Keep "measured at the PI" Response DNA: the whole point of this was that the without saying it something like "It shall a test method." A PD shall meet TMPS_PD when, " Keep "measured at the PI" pulse is long enough at the PSE PI. I don't know how to do that without saying it something like "It shall a test method." Whole point of this was that the word as it implies the measurement still occurs at the PI. <	SuggestedRemedy				SuggestedReme	edy			
Port_MPS for a minimum duration of T MPS_PD measured at the PD PI followed by an optional MPS dropout for no longer than T MPDO_PD." ACCEPT. To "For a single-signature PD the MPS shall consist of current draw equal to or above I Port_MPS for a minimum duration of T MPS_PD measured at the PI followed by an optional MPS dropout for no longer than T MPDO_PD." Response Response Status C ACCEPT IN PRINCIPLE. The "a" is OBEd by 182. However, you made me realize that "at the PD PI" is in direct conflict with line 48 (" PD shall have TMPS_PD measured with a series resistance .). That is not the P1 at all. Since all specs are measured at the P1 unless otherwise noted, let's just delete the P1 part of the search at the PD PI" on line 33 and line 37. TFT HS Can't shall a test method. "A PD shall meet TMPS_PD when." Keep "measured at the P1" Response DNA: the whole point of this was that the width of the MPS publes the PSE sees is not the same as the one measured at the PD PI when." Keep is the PSE sees use measured with the worst-case resistance.". Please help me find better test, your (HS) inflaid suggestion doesn't accomplish the goal as it implies the measurement still occurs at the PI.	5								
optional MPS dropout for no longer than T MPDO_PD.* ACCEPT. to This comment resolves comment: 40 "For a single-signature PD the MPS shall consist of current draw equal to or above I Port_MPS for a minimum duration of T MPS_PD measured at the PI followed by an optional MPS dropout for no longer than T MPDO_PD.* Response Response Status C ACCEPT IN PRINCIPLE. C The "a" is OBEd by 182. However, you made me realize that "at the PD PI" is in direct conflict with line 48 (* PD shall have TMPS_PD measured with a series resistance .). That is not the PI at all. Since all specs are measured at the PI unless otherwise noted, let's just delete the PI part of these sentences. Remove "measured at the PD PI" on line 33 and line 37. TFT HS Can't shall a test method. "A PD shall meet TMPS_PD when." Keep "measured at the PI" Response DNA: the whole point of this was that the width of the MPS pulse the PSE sees is not the same as the one measured at the PD P. Dece we resistance.". Please help me find better text, your (HS) initial suggestion doesn't accomplish the goal as it implies the measurement still occurs at the PI.					Response		Response Status W		
 "For a single-signature PD the MPS shall consist of current draw equal to or above I Port_MPS for a minimum duration of T MPS_PD measured at the PI followed by an optional MPS dropout for no longer than T MPDO_PD." Response Response Status C ACCEPT IN PRINCIPLE. The "a" is OBEd by 182. However, you made me realize that "at the PD PI" is in direct conflict with line 48 ("PD shall have TMPS_PD measured with a series resistance .). That is not the PI at all. Since all specs are measured at the PI unless otherwise noted, let's just delete the PI part of these sentences. Remove "measured at the PD PI" on line 33 and line 37. TFT HS Can't shall a test method. "A PD shall meet TMPS_PD when." Keep "measured at the PI" Response DNA: the whole point of this was that the width of the MPS pulse the PSE sees is not the same as the one measured at the PD I. So, we need to make sure that the pulse is long enough at the PSE PI. I don't know how to do that without saying it something like "it shall be measured with the worst-case resistance.", Please help me find better text, your (HS) initial suggestion doesn't accomplish the goal as it implies the measurement still occurs at the PI. 				D FT 10110 wed by all	ACCEPT.				
Port_MPS for a minimum duration of T MPS_PD measured at the PI followed by an optional MPS dropout for no longer than T MPDO_PD." Pageonse Response Status C ACCEPT IN PRINCIPLE. The "a" is OBEd by 182. However, you made me realize that "at the PD PI" is in direct conflict with line 48 (* PD shall have TMPS_PD measured with a series resistance .). That is not the PI at all. Since all specs are measured at the PI unless otherwise noted, let's just delete the PI part of these sentences. Remove "measured at the PD PI" on line 33 and line 37. TFT HS Can't shall a test mehod. "A PD shall meet TMPS_PD measured at the PI" Response DNA: the whole point of this was that the width of the MPS pulse the PSE sees is not the same as the one measured at the PD PI. So, we need to make sure that the pulse is long enough at the PSE PI. I don't know how to do that without saying it something like "it shall be measured with the work-case resistance.", Please help me find better text, your (HS) initial suggestion doesn't accomplish the goal as it implies the measureent still occurs at the PI.	to				This comme	ent resolves	s comment: 40		
ACCEPT IN PRINCIPLE. The "a" is OBEd by 182. However, you made me realize that "at the PD PI" is in direct conflict with line 48 (" PD shall have TMPS_PD measured with a series resistance .). That is not the PI at all. Since all specs are measured at the PI unless otherwise noted, let's just delete the PI part of these sentences. Remove "measured at the PD PI" on line 33 and line 37. TFT HS Can't shall a test method. "A PD shall meet TMPS_PD when." Keep "measured at the PI" Response DNA: the whole point of this was that the width of the MPS pulse the PSE sees is not the same as the one measured at the PD PI. So, we need to make sure that the pulse is long enough at the PSE PI. I don't know how to do that without saying it something like "it shall be measured with the worst-case resistance.". Please help me find better text, your (HS) initial suggestion doesn't accomplish the goal as it implies the measurement still occurs at the PI.	Port_MPS for a minimum	duration of T MPS_PD me	asured at the P						
The "a' is OBEd by 182. However, you made me realize that "at the PD PI" is in direct conflict with line 48 (" PD shall have TMPS_PD measured with a series resistance .). That is not the PI at all. Since all specs are measured at the PI unless otherwise noted, let's just delete the PI part of these sentences. Remove "measured at the PD PI" on line 33 and line 37. TFT HS Can't shall a test method. "A PD shall meet TMPS_PD when." Keep "measured at the PI" Response DNA: the whole point of this was that the width of the MPS pulse the PSE sees is not the same as the one measured at the PD P.I. So, we need to make sure that the pulse is long enough at the PSE I. I don't know how to do that without saying it something like "it shall be measured with the worst-case resistance.". Please help me find better text, your (HS) initial suggestion doesn't accomplish the goal as it implies the measurement still occurs at the PI.	Response I	Response Status C							
conflict with line 48 (" PD shall have TMPS_PD measured with a series resistance .). That is not the PI at all. Since all specs are measured at the PI unless otherwise noted, let's just delete the PI part of these sentences. Remove "measured at the PD PI" on line 33 and line 37. TFT HS Can't shall a test method. "A PD shall meet TMPS_PD when." Keep "measured at the PI" Response DNA: the whole point of this was that the width of the MPS pulse the PSE sees is not the same as the one measured at the PD PI. So, we need to make sure that the pulse is long enough at the PSE PI. I don't know how to do that without saying it something like "it shall be measured with the worst-case resistance.". Please help me find better text, your (HS) initial suggestion doesn't accomplish the goal as it implies the measurement still occurs at the PI.	ACCEPT IN PRINCIPLE.								
of these sentences. Remove "measured at the PD PI" on line 33 and line 37. TFT HS Can't shall a test method. "A PD shall meet TMPS_PD when." Keep "measured at the PI" Response DNA: the whole point of this was that the width of the MPS pulse the PSE sees is not the same as the one measured at the PD PI. So, we need to make sure that the pulse is long enough at the PSE PI. I don't know how to do that without saying it something like "it shall be measured with the worst-case resistance.". Please help me find better text, your (HS) initial suggestion doesn't accomplish the goal as it implies the measurement still occurs at the PI.	conflict with line 48 (" PD :								
TFT HS Can't shall a test method. "A PD shall meet TMPS_PD when." Keep "measured at the PI" Response DNA: the whole point of this was that the width of the MPS pulse the PSE sees is not the same as the one measured at the PD PI. So, we need to make sure that the pulse is long enough at the PSE PI. I don't know how to do that without saying it something like "it shall be measured with the worst-case resistance.". Please help me find better text, your (HS) initial suggestion doesn't accomplish the goal as it implies the measurement still occurs at the PI.		ired at the PI unless otherv	vise noted, let's	just delete the PI part					
Can't shall a test method. "A PD shall meet TMPS_PD when." Keep "measured at the PI" Response DNA: the whole point of this was that the width of the MPS pulse the PSE sees is not the same as the one measured at the PD PI. So, we need to make sure that the pulse is long enough at the PSE PI. I don't know how to do that without saying it something like "it shall be measured with the worst-case resistance.". Please help me find better text, your (HS) initial suggestion doesn't accomplish the goal as it implies the measurement still occurs at the PI.	Remove "measured at the	PD PI" on line 33 and line	37.						
is not the same as the one measured at the PD PI. So, we need to make sure that the pulse is long enough at the PSE PI. I don't know how to do that without saying it something like "it shall be measured with the worst-case resistance.". Please help me find better text, your (HS) initial suggestion doesn't accomplish the goal as it implies the measurement still occurs at the PI.	-	"A PD shall meet TMPS_F	PD when." Keep	"measured at the PI"					
This comment resolves comment: 302	is not the same as the one pulse is long enough at th something like "it shall be better text, your (HS) initia	e measured at the PD PI. e PSE PI. I don't know how measured with the worst-c I suggestion doesn't accon	So, we need to not to not to the to the to do that with ase resistance.	make sure that the out saying it '. Please help me find					
	This comment resolves co	mment: 302							

Pa **192** Li **32**

C/ 145 SC 145.3.9 P 192 L 36 # 302	C/ 145 SC 145.3.9 P 192 L 39 # <u>303</u>
Valker, Dylan Cisco	Walker, Dylan Cisco
Comment Type E Comment Status A PD MF	S Comment Type E Comment Status A Editoria
"PD PI" is redundant.	First sentence is redundant since the equivalent statement is made in the first paragraph of this subclause.
SuggestedRemedy	SuggestedRemedy
Change	Delete
"For a dual-signature PD the MPS shall consist of current draw equal to or above I Port_MPS-2P on each powered pairset independently for a minimum duration of T MPS_PD measured at the PD PI followed by an optional MPS dropout for no longer than T	"The values of I port_MPS , I Port_MPS-2P , T MPS_PD , and T MPDO_PD are shown in Table 145-31."
MPDO_PD."	Response Response Status C
to	ACCEPT.
"For a dual-signature PD the MPS shall consist of current draw equal to or above I	Cl 145 SC 145.3.9 P 192 L 40 # 183
Port_MPS-2P on each powered pairset independently for a minimum duration of T	Jones, Chad Cisco
MPS_PD measured at the PI followed by an optional MPS dropout for no longer than T MPDO_PD."	Comment Type ER Comment Status A PD MP
Response Response Status C ACCEPT IN PRINCIPLE.	"A PD connected to a Type 1 or Type 2 PSE, shall in addition show the input impedance with resistive and capacitive components defined in Table 145-32." This looks like a victim of the clause split. Needs fixed to make sense.
OBE by 301	SuggestedRemedy
### ### ###	Change to: "A PD connected to a Type 1 or Type 2 PSE shall present input impedance with resistive and capacitive components as defined in Table 145-32."
Comment 201 has the following response:	Response Response Status W
Comment 301 has the following response: ACCEPT IN PRINCIPLE.	ACCEPT IN PRINCIPLE.
The "a" is OBEd by 182. However, you made me realize that "at the PD PI" is in direct conflict with line 48 (" PD shall have TMPS_PD measured with a series resistance .). That	The "in addition" is meant to point out that the PD must do the AC requirement in addition to the the DC requirement (as opposed to in place of it).
is not the PI at all.	Change to: "A PD connected to a Type 1 or Type 2 PSE shall also present input
Since all specs are measured at the PI unless otherwise noted, let's just delete the PI part of these sentences.	impedance with resistive and capacitive components as defined in Table 145-32."
Remove "measured at the PD PI" on line 33 and line 37.	
TFT HS Can't shall a test method. "A PD shall meet TMPS_PD when." Keep "measured at the PI"	
Response DNA: the whole point of this was that the width of the MPS pulse the PSE sees is not the same as the one measured at the PD PI. So, we need to make sure that the pulse is long enough at the PSE PI. I don't know how to do that without saying it something like "it shall be measured with the worst-case resistance.". Please help me find better text, your (HS) initial suggestion doesn't accomplish the goal as it implies the	

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

measurement still occurs at the PI.

Pa **192** Li **40** Page 89 of 103 3/16/2017 10:31:48 AM

C/ 145 SC 145.3.9 Walker, Dylan	<i>P</i> 192 Cisco	L 44	# 304	C/ 145 SC 145.3.9 Stover, David	P 193 L · Linear Tech Corp	1 # 267
Comment Type E "as defined in Table 14 first paragraph, last sent SuggestedRemedy Change	Comment Status A 45-26" is redundant becau tence of this subclause.	ise the same rel	<i>Editorial</i> erence is made in the	for 7ms, to indicate th may draw a minimum PD may draw a minim	Comment Status D Class 0 to 4 PD with "long_class_eve e PD still requires power. I believe we of "10mA for 75ms" or, when long_cla um of "16mA for 7ms to 75ms" or "10 point of raising Iport_MPS to 16mA for	mean to say, Class 0 to 4 PD ass_event = TRUE, Class 0 to 4 mA for greater than 75ms."
	first class event in the range /IPS_PD in order to draw a le			SuggestedRemedy See stover_01_0317.	odf	
to "PDs that detect a long in order to draw a lower	first class event in the range standby MPS power."	e of T LCE_PD n	nay reduce T MPS_PD	Proposed Response REJECT. This comment was W	Response Status Z	
Response ACCEPT.	Response Status C			C/ 145 SC 145.3.9 Yseboodt, Lennart	P 193 L · Philips	10 # 323
Cl 145 SC 145.3.9 Jones, Chad Comment Type ER "In absence of a long firs MPS power is also higher	P 192 Cisco Comment Status A st class event the minimum er." grammatical errors.	L 45 TMPS_PD is hig	# 184 <i>Editorial</i> gher, and the standby	Comment Type E Table 145-31 (PD DC row. SuggestedRemedy Remove column.	Comment Status A MPS) contains a "PD Type" column th	<i>Editorial</i> hat has "3, 4" as value in every
SuggestedRemedy	nce of a long first class even	t, the minimum	TMPS_PD is higher	Response ACCEPT.	Response Status C	
Response ACCEPT.	Response Status W					

Pa **193** Li 10

C/ 145 SC 145.4	P 194	L 1	#	425
Zimmerman, George	CME Consulting/A	qua		
Comment Type E	Comment Status R			AES

With the exception of adding new phy speeds and requirements related to them, very little is added here that isn't in clause 33.4. If previous comment is accepted to put 2.5G/5G/10GBASE-T support back into clause 33, this clause would be better written to reference 33.4 and add the few requirements specific to Type 3 and Type 4 systems.

SuggestedRemedy

See comment. If 2.5G/5G/10G is NOT put back into clause 33, then consider this withdrawn. Otherwise, Insert after line 9 (end of 145.4 opening): "The Additional electrical specifications contained in 33.4 for Type 2 devices apply to clause 145 Type 3 and Type 4 PSE and PDs, with IEC 62368-1 is specified in addition to IEC 60950-1 in all instances, and the additions and exceptions specified in this clause. Where there are different requirements specified for Type 1 and Type 2 devices in Clause 33, Type 2 requirements apply. Replace 145.4.1 with "In addition to the requirements in 33.4.1 the following requirements apply: (1) In a multiport system, the implementer should maintain DC isolation through the termination circuitry to eliminate cross-port leakage currents. (2)An environment B PSE that supports 4-pair power shall switch the more negative conductor. It is allowed to switch both conductors." Replace 33.4.2 with "In addition to the requirements of 33.4.2, The PSE PI shall withstand without damage the application of short circuits of any wire to any other wire within the cable for an indefinite period of time. The magnitude of the current through such a short circuit:

- shall not exceed IPSEUT-Type3-2P, as defined in Equation (145-19), for Type 3 PSEs - shall not exceed IPSEUT-Type4-2P, as defined in Equation (145-20), for Type 4 PSEs."

Response Response Status C

REJECT.

The group would like clause 145 to stand on its own as much as possible.

	-					
C/ 145	SC	145.4.1.1	.2 <i>P</i> 195	L 11	# 423	
Zimmerman, George			CME Consu	CME Consulting/Aqua		
Comment	Туре	Е	Comment Status A		Editorial	
Refere	nces to	clause 3	33 PI and PD in 14.3.1.1, 25	5.4.6, and 40.6.1.1	need to be updated to	

include Clause 145 references.

SuggestedRemedy

Include clauses 14.3.1.1, 25.4.6 and 40.6.1.1 and insert clause 145 refrerences parallel to clause 33.

Response Response Status C

ACCEPT.

C/ 145	SC 145.4.3	P 196	L 12	#	76
Anslow, Pete		Ciena			
Comment Tv	pe E	Comment Status A			Editorial

Comment #19 against D2.2 resulted in many trailing zeros being removed from the draft. However, some still remain.

SuggestedRemedy

Remove any remaining trailing zeros from the draft. In particular: Table 145-33, Equation 145-33, Equation 145-35, Equation 145-36, Equation 145-37, Equation 145-38, Equation 145-39

Response ACCEP	Т.	Response Status C		
<i>Cl</i> 145 Yseboodt, L	SC 145.4.8 ennart	P 200 Philips	L 8	# 324

Comment Type TR Comment Status A

"Alternative A Midspan PSEs that support 100BASE-TX shall enforce channel current unbalance less than or equal to 10.5 mA or meet 145.4.9.2."

used to be: "Alternative A Type 2 Midspan PSEs that support 100BASE-TX shall enforce channel current unbalance less than or equal to Type 1 I unb (see Table 33-18) or meet 33.4.9.2."

This changed as part of the Clause split and now is a requirement on Type 3/4 as well. TF to verify this is correct. I also changed the reference to a Type 1 parameter to an explicit value.

The description of unbalance is poorly worded, should be intra-pair unbalance.

SuggestedRemedy

Change to:

"Alternative A Midspan PSEs that support 100BASE-TX shall enforce channel intra-pair current unbalance less than or equal to 10.5 mA or meet 145.4.9.2."

Response Response Status C

ACCEPT IN PRINCIPLE.

"Alternative A Midspan PSEs that support 100BASE-TX shall enforce channel intra-pair current unbalance (See 33A.3) less than or equal to lunb (See 145.2.8.12) or meet 145.4.9.2.""

Pa **200** Li **8** Page 91 of 103 3/16/2017 10:31:48 AM

AES

C/ 145 SC 14 Darshan, Yair	15.5.3.10	P 202 Mirosemi	L 9	# 121	C/ 145 Yseboodt,	SC 145.5.3	P 207 Philips	L 27	# 325
Comment Type 1 D2.3 DONE Now that Type 3	3 and 4 has sepa quest for Type 3	nent Status A arate clause, common and 4 and parts of			Comment The va PD_DI other v	<i>Type</i> TR triables in the DI LMAX_VALUE variables (pd_ma	Comment Status A LL "Constants" subclause at PD_INITIAL_VALUE, and I ax_power, pd_allocated_pwi ssification has completed. A	PSE_INITIAL_VA) to get their valu	ie.
SuggestedRemedy See darshan_03					S <i>uggestea</i> Adopt	-	317_dllconstants.pdf		
Response ACCEPT IN PRI		nse Status C			Response ACCE	PT.	Response Status C		
OBE by 122					C/ 145 Schindler,	SC 145.5.3.3 Fred	<i>P</i> 210 Seen Simply	L 13 v, Cisco, T	# 211
Comment 122 h ACCEPT IN PRI		response:					Comment Status A PSE does not ." is gramatic fixed.	al incorrect. Sin	DL nilarly, "The PSE
	15.4.9.2.1	F.pdf with editorial P 206 Ciena nent Status A	icense to clean	up. # [77 Editorial	"The F Response	e the first called	he second called out text with Response Status W	th, "The PSE ide	ntified".
The title of Figur SuggestedRemedy	re 145-42 is trun	cated			Replac	e the first called		th, "The PSE ide	entified" (2x).
Widen the frame	e containing the	Figure 145-42 title	so that is not tru	ncated.	C/ 145	SC 145.5.3.3		L 9	# 212
Response	Respor	nse Status C			Schindler,		Seen Simply	÷	# Z1Z
ACCEPT.					Comment Existin ". do c	g text,	Comment Status A	hat does not exi	Editoria
					Suggested Replac ". do_c	Remedy ced the called ou cxn_chk function	it text with,		
					Response ACCE		Response Status W		

Pa **211** Li **9**

C/ 145 SC 145.5.3.3 P 211 L 15	# 326	C/ 145 SC 145.5.3.		L 40	# 328
Yseboodt, Lennart Philips		Yseboodt, Lennart	Philips		
Comment Type T Comment Status A	Pres: Darshan4	Comment Type T	Comment Status A		DLL
The variable pse_power_type is not used in Figures 145-43 or 145-44, It also no longer exist in the PSE or PD section.	nor in Table 145-39.		n of the do_autoclass_measu AUTOCLASS removed.).	re function, with t	he updated on in the
SuggestedRemedy		SuggestedRemedy			
Remove variable from 145.5.3.3.		Per comment.			
Response Response Status C		Response	Response Status C		
ACCEPT IN PRINCIPLE.		ACCEPT IN PRINCIP	-		
OBE by 351		Update the description	n of do_autoclass_measure, a	as was done in th	e PSE section.
### ### ###		C/ 145 SC 145.5.3.	6 P 215	L 10	# 213
		Schindler, Fred	Seen Simply,	, Cisco, T	
Comment 351 has the following response: ACCEPT IN PRINCIPLE.		Comment Type TR	Comment Status A		DLL
		PSEs are only able to	do a DLL autoclass if pd_aut	oclass was not d	one, which is
Adopt darshan_04_0317Rev008.pdf		incorrect. DLL autocl	assifictaion may occur when e	ever the system is	s autoclass capable.
C/ 145 SC 145.5.3.6 P 211 L 15	# 327	SuggestedRemedy			
Yseboodt, Lennart Philips		Delete the exit conditi	on term "*!pd_autoclass" from	n the transition fro	om IDLE to MEASURE.
Comment Type TR Comment Status A	Pres: Darshan4	Response	Response Status C		
Variable "pse_power_type" is not used anymore.		ACCEPT IN PRINCIP	LE.		
SuggestedRemedy		OBE by 329			
Remove variable "pse_power_type" on page 211, 218 and 221.		ODE by 323			
Response Response Status C		### ### ###	6 H		
ACCEPT IN PRINCIPLE.		Comment 329 has the ACCEPT.	e following response:		
		Suggested remedy:			
OBE by 351		Remove "!pd_autocla	ss" from the arc from IDLE to	MEASURE.	
### ### ###					
Comment 351 has the following response: ACCEPT IN PRINCIPLE.					
Adopt darshan_04_0317Rev008.pdf					

Pa **215** Li **10**

C/ 145 SC 145.5.3.6 Yseboodt, Lennart	P 215 Philips	L 10	# 329		C/ 145 SC 145.5.3.6 Yseboodt, Lennart	6 P 215 Philips	L 46	# 331
Comment Type T Arc from IDLE to MEAS enabled "pd_autoclass"	Comment Status A URE includes "!pd_autoclass in the PSE.	s". This blocks a	a measurement wit	DLL h an	Comment Type E In Figure 145-45 inside 46 inside the PD capti	Comment Status A the caption the word "DLL" is on.	s used for PSE	<i>Editorial</i> but not for Figure 145-
SuggestedRemedy Remove "!pd_autoclass	" from the arc from IDLE to N	MEASURE.			SuggestedRemedy Change caption to: PD	DLL Autoclass control state	diagram.	
Response ACCEPT.	Response Status C				Response ACCEPT.	Response Status C		
This comment resolves					C/ 145 SC 145.5.3.8 Bullock, Chris	P 216 Cisco System	L 37	# 106
C/ 145 SC 145.5.3.6 Yseboodt, Lennart Comment Type E	P 215 Philips Comment Status A	L 15	# 330	DLL	Comment Type ER	Comment Status A		Pres: Darshan3 rrect.
Function "do_autoclass SuggestedRemedy Change to "do_autoclas Response	_measurement_done" is mis ss_measure_done" <i>Response Status</i> C	spelled.			SuggestedRemedy Replace: The PSE power contro (Figure 145-44)use "_ı With:	I state diagram (Figure 145-4 node(M)"	3) and PD pow	er control state diagram
ACCEPT. C/ 145 SC 145.5.3.6	P 215	L 40	# 268		The PSE power contro (Figure 145-48)use "_u		7) and PD pow	er control state diagram
Stover, David Comment Type TR	Linear Tech Co Comment Status A	orp		DLL	Response ACCEPT IN PRINCIPI	Response Status C E.		
51	stover_01_0117 was not com	pletely implement	ented.		OBE by 122			
"tautoclass_timeout.dor Response	ransition logic from "REQUES ne" becomes "tautoclass_time Response Status W				### ### ### Comment 122 has the ACCEPT IN PRINCIP	.E.		
ACCEPT.					adopt darshan_03_03	I7Rev007F.pdf with editorial I	license to clean	up.

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 **216** Li **37** Page 94 of 103 3/16/2017 10:31:48 AM

C/ 145 SC 145.5.3.8 Bullock, Chris	P 217 Cisco System	L 42 s	# 104	C/ 145 SC Darshan, Yair	C 145.5.3.8	P 21 Mirose		L 39	# 117
Comment Type TR	Comment Status A		Pres: Darshan3	Comment Type	TR	Comment Status	Α		Pres: Darshan
SuggestedRemedy Replace: local_system_change With: local_system_change_m	Response Status C	al_system_chan	ge_mode(M)"	In the text for diagram, de the PD is a diagrams do and 4. In addition, that PD kno by darshan_ SuggestedRem	or variable p afined in Figu single-signa o not use thi o not use thi in darshan_ ows if it is sir _03_0317.po edy	03_0317.pdf, it is sug ngle-signature or dual	ates if Inature PD the text "T is not corr ggested to I-signature	. Type 3 and Type 3 and Ty rect. Dual-sig delete this va	Type 4 PD state
OBE by 122				Response		Response Status	с		
### ### ###				ACCEPT IN		E.			
Comment 122 has the fo ACCEPT IN PRINCIPLE				OBE by 122					
adopt darshan_03_0317I	Rev007F.pdf with editorial I	icense to clean	up.	Comment 1 ACCEPT IN	22 has the f I PRINCIPL	ollowing response: E. 7Rev007F.pdf with ed	ditorial lice	nse to clean	up.

Pa **218** Li **39**

Cl 145 SC 145.5.3.9 Bullock, Chris	P 219 Cisco Systems	L 3	# 105	C/ 145 SC 145.5.3.10 P 220 L 8 # 118 Darshan, Yair Mirosemi
	Comment Status A ver_review" should be "pse_po	wer_reveiw_rr	Pres: Darshan3 lode(M)"	
SuggestedRemedy				Figure 145-48: Remove "pd_dll_power_type<== parameter_type"
Replace: pse_power_review				SuggestedRemedy
pee_pener_renen				Remove "pd_dll_power_type<== parameter_type"
With:				Response Response Status C
pse_power_review_mo				ACCEPT IN PRINCIPLE.
Response ACCEPT IN PRINCIPI	Response Status C			
	- C .			OBE by 122
OBE by 122				### ### ###
### ### ###				
Comment 122 has the	following response:			ACCEPT IN PRINCIPLE.
ACCEPT IN PRINCIPI				adopt darshan_03_0317Rev007F.pdf with editorial license to clean up.
adopt darshan_03_03 [.]	17Rev007F.pdf with editorial lic	cense to clear	up.	C/ 145 SC 145.5.3.10 P 220 L 8 # 120
C/ 145 SC 145.5.3.9	P 219	L 8	# 107	Darshan, Yair Mirosemi
Bullock, Chris	Cisco Systems		" 107	
	Comment Status A er_review" should be "pd_powe	er_reveiw_mo	DLL de(M)" for dual signature	maintenance request for Type 3 and 4 and parts of it can be implemented in the new
PDs				SuggestedRemedy
This should also be ch	anged in the PD_POWER_RE	VIEW state o	Figure 145-48	See darshan_03_0317.pdf
SuggestedRemedy				Response Response Status C
Replace: pd_power_review				ACCEPT IN PRINCIPLE.
				OBE by 122
pa_power_review				
With: pd_power_review_mod	ie(M)			### ###
With: pd_power_review_mod 2 places:	de(M) ion and PD_POWER_REVIEV	V state		Comment 122 has the following response:

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

Pa **220** Li **8** Page 96 of 103 3/16/2017 10:31:48 AM

C/ 145 SC 145.5.3.		L 9	# 119	C/ 145 SC 145.6.1	· ·	L 21	# 332
Darshan, Yair	Mirosemi			Yseboodt, Lennart	Philips		
Comment Type TR	Comment Status A		Pres: Darshan3	Comment Type TR	Comment Status A		Environmenta
	e the following text is not requi re "pse_dll_power_type <==ps			shall be classified as	ct to this clause shall conform to a Limited Power Source in acc uccessor to IEC 60950-1. We h	ordance with IE	C 60950-1."
SuggestedRemedy				standard in other par	ts of the document, but here (in	the requiremen	t) it was omitted.
	ver_type <==pse_power_type"			SuggestedRemedy			
Response ACCEPT IN PRINCIP OBE by 122	Response Status C LE.			particular, the PSE s	ct to this clause shall conform to hall be classified as a Limited P classified as Power Source Cla	ower Source in	accordance with IEC
### ### ### Comment 122 has the ACCEPT IN PRINCIP				36) measured accore " - exceed	defines PS2 as "PS2 is a circu ling to 6.2.2:" s PS1 limits; and" t exceed 100 W measured after	·	ver source, (see Figure
	17Rev007F.pdf with editorial li	L 34	up. # <u>108</u>	This stand equipment within the technology"	IEC 62368-1 is out for vote and ard is specific to PoE and USB field of audio/video, information ed to review it and possible inclu	powering: "Safe technology and	ty of electronic d communication
Comment Type ER	Comment Status A		Pres: Darshan3	Response	Response Status C		
The assignment of "P	SEAllocatedPowerValueEcho_	_mode(M) <= T		ACCEPT IN PRINCI	PLE.		
value TempVar_mode SuggestedRemedy In the MIRROR_UPD/ Replace: PSEAllocatedPowerV	· · /	/ar		TDL (Dylan): Figure	out the which IEC standard(s) v	ve need to refer	ence. (See Darshan14).
With: PSEAllocatedPowerV	alueEcho_mode(M) <= Temp∖	/ar_mode(M)					
Response	Response Status W						

Pa **224** Li **21**

C/ 33A SC 33A P 255 L 1 # 402 Yseboodt, Lennart Philips	Cl 33A,1 SC 33A,1 P 255 L 30 # 411 Zimmerman, George CME Consulting/Aqua 411 411
Comment Type ER Comment Status A Ec	I Comment Type ER Comment Status A Pres: Darshan
The NEW material into Annex 33A is about unbalance on the PD side. Propose to make Annex 145A the "unbalance" annex, so we can leave 33A alone. 145A then covers both the PSE and the PD. SuggestedRemedy	"as defined in Table 33-12" - several issues - should be an external reference, but also should be Table 33-11, according to IEEE Std. 802.3-2015. Annex 33A contains numerous stylistic edits when it should just be what was in 802.3-2015. Unless justified by a maintenance request, and some may be, I haven't checked, these should not be in the draft, but in a new annex.
- Retitle 145A to "Resistance and current unbalance"	SuggestedRemedy
 Take the existing subclauses (145A.1 through 145A.3), bump them down to 3rd level insert then under a new 145A.2 "PSE Unbalance". Create a new 145A.3 "PD Unbalance" Copy 33A.3 and 33A.4 into a new 145A.1 (and .2) (common to both PSE and PD) Take Annex 33A out of the draft, thereby discarding all the changes we did to it in 802 	Revert annex 33A to 802.3-2015 except where justified by maintenance requests. Commenter volunteers to coordinate maintenance requests for defects related to annex 33a, such as changing "Compliance to the above requirements" to "Verification of these guidelines" (line 41). [Note - all my other comments on Annex 33A.1 and 33A.2 are OBE if this is accepted and can be considered withdrawn, if I am not present during comment resolution]
Response Response Status C	Response Response Status W
ACCEPT IN PRINCIPLE.	ACCEPT IN PRINCIPLE.
ALSO, editior given license.	This section was already reverted to 2015. No changes to the draft.
This comment resolves comments: 215, 418, 419	– Cl 33A SC 33A.1 P 255 L 31 # 412
C/ 33A SC 33A.1 P 255 L 12 # 140	Zimmerman, George CME Consulting/Aqua
Darshan, Yair Mirosemi Comment Type TR Comment Status R Pres: Dar	Comment Type ER Comment Status D Pres: Darshan 5 V port_PSE-2P isn't in clause 33 (none of the dash 2P variables are). Pres: Darshan
33A.1 and 33A.2 was not fully implemented in D2.2.	SuggestedRemedy
SuggestedRemedy	Change all "dash 2P" to reflect proper values referenced in Clause 33
Implement darshan_05_0317.pdf. If this section will be moved to clause 33, to file maintenance request.	Proposed Response Response Status Z
Response Response Status C	REJECT.
REJECT.	This comment was WITHDRAWN by the commenter.
Need to file maintenance request.	

Pa **255** Li **31**

				· ·							
C/ 33A SC 33A.1	P 255	L 38	# 413	C/ 33A	SC 3	33A.2		P 256	L 41	#	417
Zimmerman, George	CME Consulting/Aq	lua		Zimmerma	n, Geor	ge	(CME Consult	ing/Aqua		
Comment Type ER	Comment Status D		Pres: Darshan5	Comment 7	Туре	т	Comment St	atus D			Pres: Darshan
defined in 802.3-2015	e marked external and is the wrong i 5 (should be 33-11)	reference for whe	ere VPort_PSE is	Pport is	sn't a va	ariable ar	gs solution. Re d isn't in Table d on line 51 as y	33-18, and le	aves the reader	r guessing	g. Same
SuggestedRemedy				best gu		io neede				posedie	
Change reference to e	external and make it Table 33-11.			Suggested	Remed	V					
Proposed Response REJECT.	Response Status Z			replace	e with "r	nax load	Pport_PD: L41 of Pport_PD = F I8". L51: Chang	Port_PD ma	$x as^{-}$ defined by	maximur	n class
This comment was W	ITHDRAWN by the commenter.			max"							
C/ 33A SC 33A.1 Zimmerman, George	P 255 CME Consulting/Aq		# 414	Proposed F REJEC	•	se	Response Sta	atus Z			
Comment Type ER	Comment Status D e should be 33-11, and marked exter	rnal	Pres: Darshan5	This co	omment	was WI	HDRAWN by t	he commente	er.		
		mai		C/ 33A	SC 3	33A.2		P 256	L 41	#	416
SuggestedRemedy See comment				Zimmerma	n, Geor	ge	(CME Consult	ing/Aqua		
Proposed Response	Response Status Z			Comment 7	•••	ER	Comment St				Pres: Darshan
REJECT.	Response Status Z			PClass marked			33-18, not 33-3	0 (there is no	33-30), and the	referenc	e should be
This comment was W	ITHDRAWN by the commenter.			Suggested See co	-						
C/ 33A SC 33A.2 Zimmerman, George	P 256 CME Consulting/Aq		# 415	Proposed F REJEC	'	se	Response Sta	atus Z			
Comment Type E	Comment Status D		Pres: Darshan5	REJEC							
	figure 33A-1. there are two Zo_emi ¹ ears to be an impedance looking into			This co	omment	was WI	HDRAWN by ti	he commente	er.		
SuggestedRemedy											
Change Zo_emi to Z_	emi on the one indicated as a circui	it element.									

Proposed Response Response Status Z REJECT.

This comment was WITHDRAWN by the commenter.

Pa **256** Li **41**

	33A.3	P 257	L	# 214	CI 33A		33A.3	P 257	<i>L</i> 1	# 418	
Schindler, Fred		Seen Simply	, Cisco, T		Zimmerma	an, Geo	orge	CME Cons	ulting/Aqua		
Comment Type	TR	Comment Status A		Pres: Darshan	1 Comment	Туре	ER	Comment Status A			Annex
	node resis	tance is the resistance of the	two wires in a	pair (including			ady in the e annex.	e text of clause 33. It applie	s as well to claus	se 145, but should	be in
connectors).	, connecte	ed in parallel."			Suggestee	dReme	dy				
page 151. I	am confu	currently does not match tex sed as to whether pairs with	the same polar	rity and in-series				ew informative annex 145C. palance so it doesn't fit in 14		ate to PSE PI pair-	to-pair
		airsets are in parallel or whet within pairset are in parallel.	her only condu	ctors and in-series	Response			Response Status W			
components	o a pair	within pairset are in parallel.			ACCE	PT IN I	PRINCIP	LE.			
Clause 145	and why t	d discuss why duplicate text hese formulas are not placed	where they may	ay be needed by the	OBE	oy 402					
		ation. i.e., moving the formulans than leaving the formula with the formula withe with the formula with the formula withe with the formula wit			### #	## ###					
		page 258, a Figure is provide pair-to-pair resistance is. The			- Retit	le 145A	A to "Resi	e following remedy: istance and current unbalar			
Modes, whic	ch may he	Ip readers understand the de sistances so it is not clear whether the stances so it is not clear whether the standard standa	finition. The fig	gure also reuses the	insert	then ur	nder a ner	bclauses (145A.1 through 1 w 145A.2 "PSE Unbalance"		em down to 3rd lev	el and
SuggestedReme	edy							3 "PD Unbalance" 4 into a new 145A.1 (and .	2) (common to b	oth PSE and PD)	
Assign a TD Force.	L (not to t	his commenter) to improve the	nis Annex as re	equired by the Task				of the draft, thereby discard			302.3bt.
								e following response:			
This fix may Replace the					ACCE	PIINI	PRINCIP	LE.			
·					ALSO	, editio	r given lic	cense.			
	node resis	stance is the parallel resistan	ce of all condu	ctors and in-series							
Response		Response Status C									
ACCEPT IN	PRINCIP	LE.									
OBE by 111											
### ### ###	ŧ										
Comment 1 ⁻ ACCEPT IN		e following response: LE.									
adopt darsh	an_01_03	17Rev008.pdf									

Pa **257** Li **1**

C/ 33A SC 33A.3 P 257 L 2 # 21 Schindler, Fred Seen Simply, Cisco, T Seen Simply, Cisco, T<	15	C/ 145 SC 33A.3 Yseboodt, Lennart	P 257 Philips	L 8	# 333
Comment Type ER Comment Status A Annex associated with Clause 145 need to be renumbered.	Annex	Comment Type ER Equations 33A-1, 33A	Comment Status A -2 and 33A-3 are not equati	ons due to a mis	Pres: Darshan1 sing equal sign.
SuggestedRemedy Have the Editor renumber Annexes, 33A.3 to 33A.4 to indicate they are related to 145.	o Clause	SuggestedRemedy Suggest parameter na Introduce names and	ames RPair_unb, RCh_unb, a update text to match.	nd RCh_delta as	names.
Response Response Status C ACCEPT IN PRINCIPLE. OBE by 402 ### ### ### Comment 402 has the following remedy: - Retitle 145A to "Resistance and current unbalance" - Take the existing subclauses (145A.1 through 145A.3), bump them down to 3rd insert then under a new 145A.2 "PSE Unbalance". - Create a new 145A.3 "PD Unbalance"		Response ACCEPT IN PRINCIP OBE by 111 ### ### ### Comment 111 has the ACCEPT IN PRINCIP adopt darshan_01_03	e following response: LE.		
 Copy 33A.3 and 33A.4 into a new 145A.1 (and .2) (common to both PSE and F Take Annex 33A out of the draft, thereby discarding all the changes we did to it 					

Comment 402 has the following response: ACCEPT IN PRINCIPLE.

ALSO, editior given license.

Pa **257** Li **8**

C/ 33A SC 33A.4 P 257 L 16 # 419 Zimmerman, George CME Consulting/Aqua	C/ 145A SC 145A.1 P 259 L 23 # 237 Stewart, Heath Linear Tech Corp Linear Tech Corp Linear Tech Corp Linear Tech Corp
Comment TypeTRComment StatusAAnnexNew section 33A.4 does not apply to clause 33 systems.	Comment Type E Comment Status A Editorial These used to be two separate paragraphs
SuggestedRemedy Insert 33A.4 text as text in 145A, immediately before 145A.2, since this relates directly to pair-to-pair resistance/currrent unbalance. Response Response Status W	SuggestedRemedy Separate into two paragraphs. Response Response Status C ACCEPT.
ACCEPT IN PRINCIPLE. OBE by 402	C/ 145A SC 145A.3 P 260 L 51 # 130 Darshan, Yair Mirosemi
### ### Comment 402 has the following remedy:	Comment Type TR Comment Status A Annex We need to verify by simulations that 145A.3 test model is working. Annex A
 Retitle 145A to "Resistance and current unbalance" Take the existing subclauses (145A.1 through 145A.3), bump them down to 3rd level and insert then under a new 145A.2 "PSE Unbalance". Create a new 145A.3 "PD Unbalance" Copy 33A.3 and 33A.4 into a new 145A.1 (and .2) (common to both PSE and PD) Take Annex 33A out of the draft, thereby discarding all the changes we did to it in 802.3bt. 	SuggestedRemedy Add to Ken TODO list. Response Response Status C ACCEPT IN PRINCIPLE. Add TDL (Ken): verify 45A.3 through simulations.
ACCEPT IN PRINCIPLE. ALSO, editior given license.	This comment resolves comment: 151 C/ 145A SC 145A.3 P 260 L 53 # 151
P 145A SC 145A.1 P 259 L 16 # 238 tewart, Heath Linear Tech Corp	C/ 145ASC 145A.3P 260L 53#151Darshan, YairMirosemiComment TypeTRComment StatusAAnnex
omment Type TR Comment Status A Annex Missing edit from agreed upon Draft 2.2 comments. uggestedRemedy Annex Change "shall be" to "is" Comment Status Comment Status	The verification circuit and procedure need to be validated by simulation or lab tests. SuggestedRemedy To add to KEN TODO list. Response Response Status C
ACCEPT.	ACCEPT IN PRINCIPLE.
	### ###
	Comment 130 has the following response: ACCEPT IN PRINCIPLE.
	Add TDL (Ken): verify 45A.3 through simulations.
YPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/g OMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/wr	

SORT ORDER: Page, Line

Cl 145B SC 14 Anslow, Pete	5B P 2 Ciena		L 54	# 78	
Comment Type E	Comment Status ear variable in the file for Ar		set to 201x rathe	er than 20	<i>Editorial</i> 17
SuggestedRemedy Set the variable	to 2017				
Response ACCEPT.	Response Status	С			
C/ 145 SC 14 Yseboodt, Lennart	5 B.3 <i>P</i> 2 Philip		L 45	# 334	
Comment Type E Autoclass timing	<i>Comment Status</i> parameters in Figure 145E		re actually diagr	ams	Annex
SuggestedRemedy Change to: "Autoclass timing	g diagrams"				
Response ACCEPT.	Response Status	С			

Pa **268** Li **45**