Anslow, Peter       Ciena Corporation         Comment Type       TR       Comment Status A       Editorial         The response to unsatisfied comment r01-30 against D3.1 was:       "REJECT."       Comment Type       E       Comment Type       Comment Status A         The response to unsatisfied comment r01-30 against D3.1 was:       "REJECT."       Comment Type       E       Comment Type       C       Comment Type       E       Comment Status A       The rea ret wo "delete" editing instruction "Change Table 30-4 as follows:" difting instruction       Change Table 30-4 as follo												
Comment TypeTRComment Status AEditorialThe response to unsatisfied comment 101-30 against D3.1 was: "REJECT.The response to unsatisfied comment 101-30 against D3.1 was: "Response to unsatisfied comment 101-30 against D3.1 was: "Response that means there is $\frac{1}{3}$ back of data." In order to call the means the end shale has lack of data." In order to call the means the end shale has lack of data." In order to call that in tables within 802.3, a comment has been Add a new subcluse 12.8: To a minimum call, that there is no requirement on the maximum value of that parameter - For a minimum call, that there is no requirement on the maximum value of that parameter - For a minimum call, that there is no requirement on the maximum value of that parameter - For a minimum call, that there is no requirement no the maximum value of that parameter - For a minimum call, that there is no requirement in currently back mini or max coll ratio is in accordance with all other recent amendments to IEEE 002.3, 145-20, 145-20, 145-20, 145-23, 145-20, 145-23, 1				-	# r02-1			30.2.5		-		# r02-3
The service to unsatisfied comment 101-30 against D3.1 was: "TRE JECT." The comment resolution group believes that the em-dash is technically inaccurate for these openended ranges, not a lack of data." In order to dark of data." Add a new subclause 1.28: 1.28 Em dash (-) in a table cell Atable cell containing an em-dash (-) in table solution to the provide a lack of data for that cell, or: - for a minisculi, that there is no requirement on the maximum value of that parameter - for a minisculi, that there is no requirement on the maximum value of that parameter - for a minisculi, that there is no requirement on the maximum value of that parameter - for a minisculi, that there is no requirement on the maximum value of that parameter - for a minisculi, that there is no requirement on the maximum value of that parameter - for a minisculi, that there is no requirement on the maximum value of that parameter - for a minisculi, that there is no requirement on the requirement in currently blank min or max columnas in accordance with all other recent amendments to IEEE 802.3 In particular, Tables 146-7, 145-9, 145-10, 145-11, 145-10, 145-11, 145-10, 145-11, 145-10, 145-21, 145-20, 145-2	Anslow, Pe	eter	Ciena Corpora	ation		Anslow, P	eter		C	iena Corpoi	ration	
"HELCT.       Comment resolution group believes that the em-dash is technically inaccurate for these entries as it means there is 'a lack of data'. In Clause 145 the empty cells are due to operineded ranges, not a lack of data'.       Since there an significant number of additions to the table that are not mentioned, it seems better an significant number of additions to the table that are not mentioned, it seems better an significant number of additions to the table that are not mentioned, it seems better an submitted agains the revision project with the following suggested remedy Add a new subclause 1.2.8. If data (-) indicates a lack of data for that cell, or:	Comment	Type <b>TR</b>	Comment Status A		Editorial	Comment	Туре	Е	Comment St	atus A		Editori
In order to clarify the meaning of an em-dash in tables within 802.3, a comment has been submitted against the revision project with the following suggested remedy       Add a new subclause 12.8:         12.8 Em dash () in table cell       A table cell containing an em-dash (-) indicates a lack of data for that cell, or:       - For a units cell, that there is no requirement on the maximum value of that parameter         - For a minimum cell, that there is no requirement on the minimum value of that parameter       - For a minimum cell, that there is no requirement on the maximum value of that parameter         - SuggestedRemedy       Make sure all tables have an entry of em-dash or pointer to the requirement in currently blank min or max columns in accordance with all other recent amendments to IEEE 802.3. In particular, Tables 145-7, 145-8, 145-9, 145-32, 145-33.       C         ACCEPT.       Ci an SC 14.338       P24       L46       # top22         Anslow, Peter       Ciena Corporation       Comment Type       E Comment Status A         Comment Type       ER       Comment Status A       Editorial         The text on line 46 is ', Power over Data Lines is intended to provide a' but this is different from the stot of 1.4,338 as modified by IEEE Stat 802.3bu-2016 which has ', DTE powering' in strikethrough font and "Power over Data Lines" in underline.       Response       Response Status V         SuggestedRemedy       Sow "DTE powering' in strikethrough font and "Power over Data Lines" in underline.       Editorial         SuggestedRemedy       AcCEPT.	"REJE The co entries	'REJECT. The comment resolution group believes that the em-dash is technically inaccurate for the entries as it means there is "a lack of data". In Clause 145 the empty cells are due to openended ranges, not a lack of data." In order to clarify the meaning of an em-dash in tables within 802.3, a comment has been					npassin cant nu a simple	g editing in mber of action of action of a contract of a c	nstruction "Char dditions to the ta	nge Table 30 ble that are	)-4 as follows:" S not mentioned, it	ince there are also a
Add a new subclause 12.8:       12.8 Em dash (-) in a table cell         12.8 Em dash (-) in a table cell containing an em-dash (-) indicates a lack of data for that cell, or:       - For a units cell, that there is no requirement on the maximum value of that parameter         - For a maximum cell, that there is no requirement on the minimum value of that parameter       - For a maximum cell, that there is no requirement on the minimum value of that parameter         - For a minimum cell, that there is no requirement on the minimum value of that parameter       - For a minimum cell, that there is no requirement on the minimum value of that parameter         - For a minimum cell, that there is no requirement on the minimum value of that parameter       - For a minimum cell, that there is no requirement on the minimum value of that parameter         - For a minimum cell, that there is no requirement on the minimum value of that parameter       - For a minimum cell, that there is no requirement on the minimum value of that parameter         - Suggested/Remedy       Make sure all tables have an entry of em-dash or pointer to the requirement in currently blank min or max columns in accordance with all other recent amendments to IEEE 802.3. In particular, Tables 145-7, 145-8, 145-9, 145-20, 145-23, 145-32, 14				es within 802.3	, a comment has been			•				
Construction       ACCEPT.         ACCEPT.       Cl 1 SC 14.338       P24 L46 # [102-2]         Anslow, Peter       Ciena Corporation         Comment Type       ER       Comment Status A         SuggestedRemedy       Show "DTE powering is intended to provide a] and the change is not shown with appropriate change marking.       Cl 30       SC 30.9.1.1.8a       P42       L47       # [102-2]         Show "DTE powering" in strikethrough font and "Power over Data Lines" in underline.       Response       Response Status W       ACCEPT.         ACCEPT.       Cl 30       SC 30.9.1.1.8a       P42       L47       # [102-2]         Anslow, Peter       Ciena Corporation       Corporation       Corporation       Corporation       Corporation         SuggestedRemedy       Show "DTE powering is intended to provide a] and the change is not shown with appropriate change is not shown with appropriate change is not shown with appropriate change is not show with appropriate change is not show were change is not show were change is not showere change is not show were change is not sh	Add a 1.2.8 E A table - For For parame	new subclause 1 Em dash () in a e cell containing a units cell, that a maximum cell, eter	nat cell, or: m value of that	"aPSEShortCounter" in Table 30-4." leaving just "Change Table 30-4 as follows:" show the "PD Basic Package (mandatory)" heading in strikethrough font. show the aPSEShortCounter row in strikethrough font remove the underline attribute from empty cells in inserted rows as these show up as dots								
Make sure all tables have an entry of em-dash or pointer to the requirement in currently blank min or max columns in accordance with all other recent amendments to IEEE 802.3. In particular, Tables 145-7, 145-73, 145-10, 145-14, 145-15, 145-16, 145-21, 145-25, 145-29, 145-33.       ACCEPT.         Response       Response Status W       ACCEPT.         ACCEPT.       Ci n SC 1.4.338       P24       L46       # r02-2         Anslow, Peter       Ciena Corporation       Comment Type       E       Comment Status A         Comment Type       ER       Comment Status A       Editorial to the fair ", Druer over Data Lines is intended to provide a) and the change is not shown with appropriate change marking.       ACCEPT.         SuggestedRemedy       Show "DTE powering" in strikethrough font and "Power over Data Lines" in underline.       Response       Response Status A       Ciena Corporation         SuggestedRemedy       Show "DTE powering" in strikethrough font and "Power over Data Lines" in underline.       Ci 30       SC 30.9.1.1.8a       P42       L47       # r02         AccePT.       SuggestedRemedy       Show "DTE powering" in strikethrough font and "Power over Data Lines" in underline.       Response Type E       Comment Type E       Comment Status A       Ciena Corporation         SuggestedRemedy       AccePT.       Side General Corporation       Ciena Corporation       Comment Type E       Comment Status A       SuggestedRemedy <td>Suaaested</td> <td>lRemedv</td> <td></td> <td></td> <td></td> <td>Response</td> <td></td> <td></td> <td>Response Sta</td> <td>atus C</td> <td></td> <td></td>	Suaaested	lRemedv				Response			Response Sta	atus C		
In particular, Tables 145-7, 145-8, 145-9, 145-10, 145-14, 145-15, 145-16, 145-21, 145-25, 145-28, 145-29, 145-32, 145-33. Response Status W ACCEPT. C(1 SC 1.4.338 P24 L46 # 102-2 Anslow, Peter Ciena Corporation Comment Type ER Comment Status A Editorial The text on line 46 is ", Power over Data Lines is intended to provide a) and the change is not shown with appropriate change marking. SuggestedRemedy Show "DTE powering" in strikethrough font and "Power over Data Lines" in underline. Response Response Status W ACCEPT. C(1 30 SC 30.9.1.1.2 P38 L25 # 102 Anslow, Peter Ciena Corporation Comment Type ER Comment Status A Editorial The text on line 46 is ", Power over Data Lines is intended to provide a) and the change is not shown with appropriate change marking. SuggestedRemedy Show "DTE powering" in strikethrough font and "Power over Data Lines" in underline. Response Response Status W ACCEPT. C(1 30 SC 30.9.1.1.2 P38 L25 # 102 Comment Type E Comment Status A Corpos-references in 30.9.1.1.2 through 30.9.1.1.8, 30.9.1.1.9, and 30.9. C(1 30 SC 30.9.1.1.2 through 30.9.1.1.9, and 30.9. Comment Type ER Comment Status A Corpos-references in 30.9.1.1.2 through 30.9.1.1.9, and 30.9. C(2 30 SC 30.9.1.1.8 A Corpos-references in 30.9.1.1.2 through 30.9.1.1.9, and 30.9. Comment Type E Comment Status A Comment Type E Comment Status A SuggestedRemedy ACCEPT. C(2 30 SC 30.9.1.1.8 P42 L47 # 102 C(2 30 SC 30.9.1.1.8 Comment Status A SuggestedRemedy Remove the space Response Response Status C Comment Type E Comment Status C	00		ive an entry of em-dash or po	pinter to the req	uirement in currently	ACCE	PT.					
Response       Response Status       W       Clear Corporation         ACCEPT.       Cl 1       SC 1.4.338       P24       L46       # [02-2]         Anslow, Peter       Ciena Corporation       Comment Type       ER       Comment Status       A         Comment Type       ER       Comment Status       A       Editorial         The text on line 46 is ", Power over Data Lines is intended to provide a) and the change is not shown with appropriate change marking.       Cl 30       SC 30.9.1.1.8a       P42       L47       # [02-2]         SuggestedRemedy       SuggestedRemedy       Ciena Corporation       Cl 30       SC 30.9.1.1.8a       P42       L47       # [02-2]         SuggestedRemedy       AccEPT.       Response Status       W       AccEPT.       Ci 30       SC 30.9.1.1.8a       P42       L47       # [02-2]         Show "DTE powering" in strikethrough font and "Power over Data Lines" in underline.       Response Status       M       spurious space in "s ubclause"       SuggestedRemedy         ACCEPT.       Response Status       W       Remove the space       Response Status       A	In parti	icular, Tables 14	5-7, 145-8, 145-9, 145-10, 14			C/ 30	SC	30.9.1.1.2	2	P <b>38</b>	L <b>25</b>	# r02-4
ACCEPT.       Cl 1       SC 1.4.338       P24       L46       # [02-2]         Anslow, Peter       Ciena Corporation       Comment Type       ER       Comment Status A       Editorial         The text on line 46 is ", Power over Data Lines is intended to provide a] but this is different from the text of 1.4.338 as modified by IEEE Std 802.3bu-2016 which has ", DTE powering is intended to provide a] and the change is not shown with appropriate change marking.       Cl 30       SC 30.9.1.1.8a       P42       L47       # [02-2]         SuggestedRemedy       Show "DTE powering" in strikethrough font and "Power over Data Lines" in underline.       Response       Response Status W       ACCEPT.       Aslow, Peter       Ciena Corporation         ACCEPT.       SuggestedRemedy       SuggestedRemedy       Response Status W       Response Status C       Accept.         ACCEPT.       Response Status W       Response Status C       Response Status A       SuggestedRemedy         ACCEPT.       Response Status W       Response Status C       Response Status C         ACCEPT.       Response Status C       SuggestedRemedy       SuggestedRemedy         Remove the space       Response Status C       SuggestedRemedy         Remove the space       Response Status C       SuggestedRemedy         Remove the space       Response Status C       SuggestedRemedy	145-28	3, 145-29, 145-32				Anslow, P	eter		C	iena Corpo	ration	
Cl 1       SC 1.4.338       P24       L46       # r02-2         Anslow, Peter       Ciena Corporation       Comment Type       ER       Comment Status       A       Editorial         The text on line 46 is ", Power over Data Lines is intended to provide a " but this is different from the text of 1.4.338 as modified by IEEE Std 802.3bu-2016 which has ", DTE powering is intended to provide a) and the change is not shown with appropriate change marking.       Cl 30       SC 30.9.1.1.8a       P42       L47       # r02         SuggestedRemedy       Show "DTE powering" in strikethrough font and "Power over Data Lines" in underline.       Comment Type       E       Comment Status A       SuggestedRemedy         ACCEPT.       Cl 30       SC 30.9.1.1.8a       P42       L47       # r02         Manslow, Peter       Ciena Corporation       Comment Type       E       Comment Status A         SuggestedRemedy       Show "DTE powering" in strikethrough font and "Power over Data Lines" in underline.       Response       Response Status A       spurious space in "s ubclause"         ACCEPT.       SuggestedRemedy       SuggestedRemedy       Remove the space       Response Status C	•		Response Status W			Comment	Туре	Е	Comment St	atus A		Editori
Anslow, Peter       Ciena Corporation         Comment Type       ER       Comment Status       A       Editorial         The text on line 46 is ", Power over Data Lines is intended to provide a) and the change is not shown with appropriate change marking.       Editorial       Response       Response Status       C         SuggestedRemedy       Show "DTE powering" in strikethrough font and "Power over Data Lines" in underline.       Comment Type       E       Comment Status       A         Response       Response Status       W       ACCEPT.       Comment Status       A       SuggestedRemedy         ACCEPT.       SuggestedRemedy       SuggestedRemedy       Ciena Corporation       # r02         ACCEPT.       Comment Status       A       Response Status       A         ACCEPT.       SuggestedRemedy       SuggestedRemedy       Anslow, Peter       Ciena Corporation         ACCEPT.       SuggestedRemedy       SuggestedRemedy       SuggestedRemedy       SuggestedRemedy         ACCEPT.       SuggestedRemedy       SuggestedRemedy       SuggestedRemedy       SuggestedRemedy         ACCEPT.       SuggestedRemedy       SuggestedRemedy       SuggestedRemedy       SuggestedRemedy         Remove the space       Response       Response Status       C       C												
Ansiow, Peter       Clena Corporation         Comment Type       ER       Comment Status       A         The text on line 46 is ", Power over Data Lines is intended to provide a] but this is different from the text of 1.4.338 as modified by IEEE Std 802.3bu-2016 which has ", DTE powering is intended to provide a] and the change is not shown with appropriate change marking.       Response       Response Status       C         SuggestedRemedy       SuggestedRemedy       Ciena Corporation       Ciena Corporation       Total Corporation         Response       Response Status       W       SuggestedRemedy       Ciena Corporation       Comment Type       E       Comment Status       A         ACCEPT.       SuggestedRemedy				-	# r02-2	Suggested	dRemed	dv				
Comment Type       ER       Comment Status       A       Editorial         The text on line 46 is ", Power over Data Lines is intended to provide a] porter powering is intended to provide a] and the change is not shown with appropriate change marking.       Response       Response Status       C         SuggestedRemedy       Show "DTE powering" in strikethrough font and "Power over Data Lines" in underline.       C/       30       SC 30.9.1.1.8a       P42       L47       # [702]         Response       Response Status       W       Anslow, Peter       Ciena Corporation       Comment Type       E       Comment Status       A         Response       Response Status       W       SuggestedRemedy       SuggestedRemedy       SuggestedRemedy       Response Status       A         ACCEPT.       Comment Type       E       Comment Status       A         ACCEPT.       SuggestedRemedy       SuggestedRemedy       Remove the space       Response Status       A         ACCEPT.       SuggestedRemedy       Remove the space       Response Status       C       SuggestedRemedy         Remove the space       Response       Response Status       C       C	Anslow, Pe	eter	Ciena Corpora	ation					ernal to these se	even cross-r	eferences.	
change marking. C/ 30 SC 30.9.1.1.8a P42 L47 # 102   SuggestedRemedy Anslow, Peter Ciena Corporation   Show "DTE powering" in strikethrough font and "Power over Data Lines" in underline. Comment Type E Comment Status A   Response Response Status W spurious space in "s ubclause" A   ACCEPT. SuggestedRemedy Remove the space Response Status C	The tex differer	xt on line 46 is ". nt from the text o	, Power over Data Lines is f 1.4.338 as modified by IEE	E Std 802.3bu-	vide a " but this is 2016 which has " ,			Ū	Response Sta	atus C		
Show "DTE powering" in strikethrough font and "Power over Data Lines" in underline.       Comment Type       E       Comment Status       A         Response       Response Status       W       spurious space in "s ubclause"       A         ACCEPT.       Suggested Remedy Remove the space       Response Status       C	change	e marking.	led to provide a) and the c	hange is not sh	own with appropriate			30.9.1.1.8				# r02-5
Response     Response Status     w     spurious space in "s ubclause"       ACCEPT.     SuggestedRemedy       Remove the space     Response Status       C     Response	00		in atrikathrough fant and "Da	war over Deta I	inco" in underline			-		•		Editori
ACCEPT. SuggestedRemedy Remove the space Response Response Status C		DTE powering	, ç		ines in underline.					alus A		Editori
	•	PT.	·····					•				
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Comment ID r02-5

CI 30 SC	<b>30.12.2.1.</b> 1	18p P52	L <b>2</b>	# r02-6	C/ 145	SC 145.2.5.6		P <b>140</b>	L <b>49</b>	# <u>r</u> 02-9
Anslow, Peter		Ciena Corpor	ation		Anslow, Peter		Ci	ena Corpora	ation	
Comment Type	Е	Comment Status A		Editorial	Comment Typ	e E	Comment Sta	tus A		Ea
typo "fthat"					Three inst	ances of refer	rences to 145.2.5	.4 that are t	ext rather than o	cross-references.
SuggestedReme	edy				SuggestedRei	nedy				
delete the sp	ourious f									4" a cross-reference
Response		Response Status C					ances of missing erences will not m		ences by search	ning for 145. In
ACCEPT.					Response	X	Response Stat	us <b>C</b>		
CI 33 SC	33.4.9.1b	P <b>76</b>	L18	# r02-7	ACCEPT.					
Anslow, Peter		Ciena Corpor	ration							
Comment Type	ER	Comment Status A		Editorial						
SuggestedPome	nt.									
Delete the st	edy trikethrough	subclause numbers (they r		he base document) and						
Delete the si remove the u	edy trikethrough	om the inserted subclause r		he base document) and						
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Delete the si remove the t Response ACCEPT.	edy trikethrough	om the inserted subclause r		he base document) and # <u>r02-8</u>						
Cl 33 Content of the second se	edy trikethrough underline fro	om the inserted subclause r Response Status W	humbers.							
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Cl 33 CC Cl 33 CC Cl mean compared by the comp	edy trikethrough underline fro 33.6.3.3 ER instruction sa	om the inserted subclause r Response Status W P78 Ciena Corpor	L2 ration	# <u>r02-8</u> <i>Editorial</i> not all of 33.6.3.3 is						
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Cl 33 CCEPT. Cl 33 CCANSION, Peter Comment Type The editing i shown in the SuggestedReme Assuming th move the ed delete the in change the 6 Before the fi	edy trikethrough underline fro 33.6.3.3 ER instruction sa draft. The o edy nat it is not d liting instruct itial unmodified iting instruct nal paragrap	P78 Ciena Corpor Comment Status A ays "Change 33.6.3.3 as fo definitions from TempVar th esired to show a large num tion to be after the heading fied sentence uction to "Change the first n oh of 33.6.3.3, add an editir	L2 ration llows:" but then r brough to pse_po ber of unmodifier for 33.6.3.3 ine definitions in	# <u>r02-8</u> <i>Editorial</i> not all of 33.6.3.3 is wer_type are missing. d definitions: 33.6.3.3 as follows:"						

C/ 1	SC 1.4.338	P <b>24</b>	L <b>40</b>	# r02-10	CI <b>79</b>	SC	79.3.2.3	P88	L <b>34</b>	# r02-11
Jones, C	had	Cisco System	ns, Inc.		Jones, Ch	ad		Cisco Syste	ems, Inc.	
Commen	t Type ER	Comment Status A		Definitions	Comment	Туре	Е	Comment Status A		Editorial
1.4.3 powe twiste IEEE single devic data.	here is this definition without the editing instructions (so, as it will be published): 1.4.338 Power Sourcing Equipment (PSE): A DTE or midspan device that provides the power to a single link section. PSEs are defined for use with two different types of balanced twisted-pair PHYs. When used with 2 or 4 pair balanced twisted-pair (BASE-T) PHYs, see IEEE Std 802.3, Clause 33 and Clause 145, Power over Ethernet is intended to provide a single 10BASE-T, 100BASE-TX, 1000BASE-T, 2.5GBASE-T, 5GBASE-T, or 10GBASE-T device with a unified interface for both the data it requires and the power to process these data. When used with single balanced twisted-pair (BASE-T1) PHYs (see IEEE Std 802.3, Clause 104), Power over Data Lines is intended to provide a single 100BASE-T1 or				field n S <i>uggested</i>	ame. b d <i>Remec</i> le 'powe	ut we miss dy	e the change from 'power of ed one in the last sentence 'Power class' on line 34. <i>Response Status</i> <b>C</b>		ass' to capitalize the
1000	BASE-T1 device v	with a unified interface for bo PSE used with balanced sing	th the data it req	uires and the power to	Cl 145 Jones, Ch		145.1	P <b>109</b> Cisco Syste	2 <b>1</b> ems. Inc.	# r02-12
The I sente sente	PoE sentence read ence. WIthout the pence that is missin	e to use a different sentence ds poorly. Restore the PoDL parenthesis around the poin g a period after 'Clause 145	sentence constr ters to the clause	uct to the PoE	Suggested add th	ng spac d <i>Remec</i> le space	<i>dy</i> e	Comment Status A sentences. "or simply Mic	•	<i>Editorial</i> an element "
00	edRemedy	ith O an Analish shares dituited			Response			Response Status <b>C</b>		
802.3 10BA	3, Clause 33 and C SE-T, 100BASE-	ith 2 or 4 pair balanced twist Clause 145, Power over Ethe TX, 1000BASE-T, 2.5GBAS for both the data it requires	ernet is intended E-T, 5GBASE-T,	to provide a single or 10GBASE-T device	ACCE	PT.				# 00.40
WILLI		tor both the data it requires	and the power to	process mese data.	C/ 145		145.1.4	P113	L <b>3</b>	# r02-13
		r 4 pair balanced twisted-pa			Jones, Ch		_	Cisco Syste	ems, inc.	
T, 10	0BASE-TX, 1000E	145), Power over Ethernet is BASE-T, 2.5GBASE-T, 5GB h the data it requires and the	ASE-T, or 10GB/	ASE-T device with a		ordered		Comment Status A ents of this sentence and r r better, cabling as specifi		
Respons ACC	e EPT IN PRINCIPL	Response Status <b>C</b> E.			additio	onal req	uirement t	hat the channel DC loop r specified in this Clause.		
Powe		nent (PSE): A DTE or midsp h may also carry data (for 2			additio	ge to: C onal req	lass D or b juirement t	better cabling as specified hat the channel DC loop r specified in this Clause.		
		145; for single pair systems,			Response			Response Status C		

Response ACCEPT.

C/ 145 SC 145.2.6.4	P160	L1	# r02-14	C/ 145C SC 145C.1	P <b>295</b>	L <b>24</b>	# r02-17
Jones, Chad	Cisco Systems	s, Inc.		Jones, Chad	Cisco Systems	s, Inc.	
Comment Type E	Comment Status A		Editorial	Comment Type E	Comment Status A		Editoria
any way to keep Table right below a call to a t	a 145-9 with 145.2.6.4? right no able but not that table.	ow it's in the mi	ddle of 145.2.6.5 and	move 'IL =0.6A up so Same for page 296 lir	me so that it doesn't encroach t ne 4	he arrow.	
SuggestedRemedy				SuggestedRemedy			
editor to tie Table 145-	9 to 145.2.6.4			make the change as o	commented		
Response ACCEPT.	Response Status C			Response ACCEPT.	Response Status C		
Cl 145 SC 145.2.7 Jones, Chad	P <b>162</b> Cisco Systems	L <b>18</b> s, Inc.	# <u>r02-15</u>	C/ 145C SC 145C.3 Jones, Chad	P <b>298</b> Cisco Systems	L <b>3</b> 5, Inc.	# <u>r02-18</u>
Comment Type E missing space after co	Comment Status A mma: "increased by at least F	Pac_margin,as	<i>Editorial</i> defined in". Add space.	Comment Type ER contents of the colum	Comment Status A n were converted to A but the h	eading was left	<i>Editoria</i> t mA.
SuggestedRemedy change to: "increased	by at least Pac_margin, as de	fined in"		SuggestedRemedy Change heading of th	ird column of Table 145C-1 fror	n 'Icond (mA)' t	to 'Icond (A)'
Response ACCEPT.	Response Status C			Response ACCEPT.	Response Status C		
C/ 145 SC 145.2.8.2 Jones, Chad	2 P170 Cisco Systems	L <b>43</b> s, Inc.	# <u>r02-16</u>	C/ 145C SC 145C.2 Jones, Chad	P <b>297</b> Cisco Systems	L <b>34</b> s, Inc.	# r02-19
Comment Type E "in a power on state" ju state" to "POWER_ON	Comment Status R ust two paragraphs above in 1 ". Did we miss one?	45.2.8.1 we cha	<i>Editorial</i> anged "a power on		Comment Status <b>A</b> with other worstcase elements		Editoria
SuggestedRemedy				SuggestedRemedy	other worst case elements		
change "a power on st	ate" to "POWER_ON"			Response	Response Status C		
Response REJECT.	Response Status C			ACCEPT.			
	l power on states (SS and DS I thus only needs to reference		u site above only				

C/ 79 SC 79.3.2.6f.2 P95 L24 # r02-20 C/ 145 SC 145.5.3.2.2 P231 L50# r02-23 Jones, Chad Cisco Systems, Inc. Jones, Chad Cisco Systems, Inc. Comment Type E Comment Status A **F**ditorial Comment Type E Comment Status A Editorial "Autoclass request" field many DLL field references missing the guotes: p231. L50 convention is single quotes. p232, L3, L8, L14, L19 SuggestedRemedy P241, L2, L7, L12, L20 change to: 'Autoclass request' field P247, L9, L15 Response Response Status C SuggestedRemedy ACCEPT. add single quotes around field names as is the convention. Response Response Status C C/ 79 SC 79.3.8.2 P98 L34 # r02-21 ACCEPT. Jones. Chad Cisco Systems, Inc. Comment Type E Comment Status A Editorial C/ FM SC FM P19 # r02-24 L2 missing single quote around DLL field: PSE power price index field Yseboodt, Lennart Philips Lighting SuggestedRemedy Comment Status A Comment Type Е Editorial change to: 'PSE power price index' field OOS Response Response Status C Missing space in TOC: 145.2.10 PSE Maintain .... ACCEPT. SuggestedRemedy Add space C/ 145 SC 145.5.2 P230 L40 # r02-22 Jones, Chad Cisco Systems, Inc. Response Response Status C ACCEPT. Comment Type E Comment Status A Editorial DLL field convention is: 'Name' field. 4 errors to this convention in 145.5.2: L40: "PSE allocated power value" field L42: "PD requested power value" field L45: "PD requested power value" field L47: "PD requested power value" field SuggestedRemedy change all to single quotes. L40: 'PSE allocated power value' field L42: 'PD requested power value' field L45: 'PD requested power value' field L47: 'PD requested power value' field Response Response Status C ACCEPT.

Inart       Philips Lighting       Yseboodt, Lennart       Philips Lighting         e       T       Comment Status       A       Maintenance         classification extension fields and Type 3 and Type 4 extension fields shown in 3 can be used by the PSE only when it is drawing power to a PI encompassed WDI and by the PD only when it is drawing power from the PI."       TR       Comment Status       A       LLD         PD connected through a Midspan (supplying power) to a PSE (not supplying cause midspan in the way).       sends out POE TLVs, whatever value it puts in the PSEAllocatedPowerValue wrong.       We split the "Power down' field shall contain the bits defined in Table 79-6i. The 'Power down' field shall contain the bits defined in Table 79-6i. The 'Power down' field shall contain the bits defined in Table 79-6i. The 'Power down' field shall contain the bits defined in Table 79-6i. The 'Power down' field shall contain the bits defined in Table 79-6i. The 'Power down' field shall contain the bits defined in Table 79-6i. The 'Power down' field shall contain the bits defined in Table 79-6i. The 'Power down' field shall contain the bits defined in Table 79-6i. The 'Power down' field shall contain the bits defined in Table 79-6i. The 'Power down' field shall contain the bits defined in Table 79-6i. The 'Power down' field shall contain the bits defined in Table 79-6i. The 'Power down' field shall contain the bits defined in Table 79-6i. The 'Power down' field shall contain the bits defined in Table 79-6i. The 'Power down' field shall contain the bits defined in Table 79-6i. The 'Power down' field shall contain the power type is PD, this field may be set to 0.1D to indicate a request for power to a set to say:         classification extension fields and Type 3 an
3 can be used by the PSE only when it is supplying power to a PI encompassed MDI and by the PD only when it is drawing power from the PI." PD connected through a Midspan (supplying power) to a PSE (not supplying cause midspan in the way). E sends out POE TLVs, whatever value it puts in the PSEAllocatedPowerValue wrong. e quoted statement, saying this is not allowed. the word "can" is used, when it needs to be a "shall". his suggested remedy would create a new requirement on legacy devices, an MR filed in support. medy entence to say: classification extension fields and Type 3 and Type 4 extension fields shown in 3 shall not be sent by the PSE unless it is supplying power to a PI encompassed MDI and by the PD unless it is drawing power from the PI." SC 79.3.2.6d P93 L51 # 102-26
nart Philips Lighting
e TR Comment Status A LLDP
e       TR       Comment Status       A       LLDP         rem setup' field shall contain the device bit-map of the Power Type ext and PD       D       D         red in Table 79-6f and is reported for the device generating the TLV. The value of       m setup' field transmitted by a PSE is undefined."         sentence is utter nonsense.       D

Strike "The value of the 'System setup' field transmitted by a PSE is undefined."

Response Response Status C

ACCEPT.

0, 20, 20, 20, 0							
C/ 79 SC 79.3.	.8.1 <i>P</i> 96	L <b>20</b>	# r02-28	C/ 145 SC 145.2.	5.7 <i>P</i> 142	L <b>7</b>	# r02-30
Yseboodt, Lennart	Philips Lighti	ng		Yseboodt, Lennart	Philips Lighting		
Comment Type TR			LLDP	Comment Type E	Comment Status A		Editorial
	Itage field carries the measured s the measured current value at			do_initialialize in IDL	E is misspelled.		
	red power value at the PI, and th			SuggestedRemedy			
the measured energy	rgy consumption value at the PI,	as defined in Tal	ole 79-7b."	Change to do_initial	ize		
Referred to field na	ames are wrong.			Response ACCEPT.	Response Status C		
Also, a SHALL is r	missing, making the table normat	tive.				1.0	"
SuggestedRemedy				C/ 145 SC 145.2.	••••	L <b>8</b>	# r02-31
(field names correc	cted)			Yseboodt, Lennart	Philips Lighting		
Insert at the begin "This field shall be	ning of 79.3.8.1 set according to Table 79-7b."			Comment Type <b>T</b> OOS	Comment Status A		PSE SD
measurement' field	surement' field carries the meas d carries the measured current va			This should hol	t depend on the Single signature va	anable but on	i në quai siq vanaqie.
	easured power value at the PI, a red energy consumption value at	nd the 'Energy m	easurement' field	SuggestedRemedy Change to: !option_o	class_probe_pri		
	easured power value at the PI, a	nd the 'Energy m	easurement' field		class_probe_pri <i>Response Status</i> <b>C</b>		
carries the measur Response ACCEPT.	easured power value at the PI, a red energy consumption value at <i>Response Status</i> <b>C</b>	nd the 'Energy m	easurement' field	Change to: !option_o Response ACCEPT.	Response Status C	L7	
carries the measur Response ACCEPT. Cl 145 SC 145.2	easured power value at the PI, a red energy consumption value at <i>Response Status</i> <b>C</b>	nd the 'Energy me the PI, as define L18	easurement' field d in Table 79-7b."	Change to: !option_o Response ACCEPT.	Response Status C	L7	# <u>r02-32</u>
carries the measur Response ACCEPT.	easured power value at the PI, a red energy consumption value at <i>Response Status</i> <b>C</b> 2.5.6 <i>P</i> 140	nd the 'Energy me the PI, as define L18	easurement' field d in Table 79-7b."	Change to: !option_d Response ACCEPT. C/ 145 SC 145.2.5 Yseboodt, Lennart	Response Status C	L <b>7</b>	
carries the measur Response ACCEPT. Cl 145 SC 145.2 Yseboodt, Lennart Comment Type T	easured power value at the PI, a red energy consumption value at <i>Response Status</i> <b>C</b> 2.5.6 <i>P</i> 140 Philips Lighti <i>Comment Status</i> <b>A</b> class_probe_pri and option_class	nd the 'Energy me the PI, as define <i>L</i> 18 ng	easurement' field d in Table 79-7b." # <u>r02-29</u> PSE SD	Change to: !option_ Response ACCEPT. Cl 145 SC 145.2. Yseboodt, Lennart Comment Type T	Response Status C 5.7 P152 Philips Lighting Comment Status A C the variable "alt_done_pri" is set		# <u>r02-32</u>
carries the measur Response ACCEPT. Cl 145 SC 145.2 Yseboodt, Lennart Comment Type T Variables option_c	easured power value at the PI, a red energy consumption value at <i>Response Status</i> <b>C</b> 2.5.6 <i>P</i> 140 Philips Lighti <i>Comment Status</i> <b>A</b> class_probe_pri and option_class	nd the 'Energy me the PI, as define <i>L</i> 18 ng	easurement' field d in Table 79-7b." # <u>r02-29</u> PSE SD	Change to: !option_c Response ACCEPT. Cl 145 SC 145.2. Yseboodt, Lennart Comment Type T In state ENTRY_SE This should be "alt_c	Response Status C 5.7 P152 Philips Lighting Comment Status A C the variable "alt_done_pri" is set done_sec".	to False.	# <u>r02-32</u>
carries the measur Response ACCEPT. CI 145 SC 145.2 Yseboodt, Lennart Comment Type T Variables option_c variable in the do_	easured power value at the PI, at red energy consumption value at <i>Response Status</i> <b>C</b> <b>2.5.6</b> <i>P</i> 140 Philips Lighti <i>Comment Status</i> <b>A</b> class_probe_pri and option_class initialize function.	nd the 'Energy me the PI, as define <i>L</i> 18 ng	easurement' field d in Table 79-7b." # <u>r02-29</u> PSE SD	Change to: !option_ Response ACCEPT. Cl 145 SC 145.2. Yseboodt, Lennart Comment Type T In state ENTRY_SE This should be "alt_ Copy paste mistake	Response Status C 5.7 P152 Philips Lighting Comment Status A C the variable "alt_done_pri" is set	to False.	# <u>r02-32</u>
carries the measur Response ACCEPT. Cl 145 SC 145.2 Yseboodt, Lennart Comment Type T Variables option_c variable in the do_ SuggestedRemedy Add both variables	easured power value at the PI, at red energy consumption value at <i>Response Status</i> <b>C</b> <b>2.5.6</b> <i>P</i> 140 Philips Lighti <i>Comment Status</i> <b>A</b> class_probe_pri and option_class initialize function.	nd the 'Energy me the PI, as define <i>L</i> 18 ng	easurement' field d in Table 79-7b." # <u>r02-29</u> PSE SD	Change to: !option_d Response ACCEPT. C/ 145 SC 145.2. Yseboodt, Lennart Comment Type T In state ENTRY_SE This should be "alt_d Copy paste mistake SuggestedRemedy	Response Status C 5.7 P152 Philips Lighting Comment Status A C the variable "alt_done_pri" is set done_sec". versus baseline yseboodt_03_111	to False.	# <u>r02-32</u>
carries the measur Response ACCEPT. CI 145 SC 145.2 Yseboodt, Lennart Comment Type T Variables option_c variable in the do_ SuggestedRemedy	easured power value at the PI, at red energy consumption value at <i>Response Status</i> <b>C</b> <b>2.5.6</b> <i>P</i> 140 Philips Lighti <i>Comment Status</i> <b>A</b> class_probe_pri and option_class initialize function.	nd the 'Energy me the PI, as define <i>L</i> 18 ng	easurement' field d in Table 79-7b." # <u>r02-29</u> PSE SD	Change to: !option_d Response ACCEPT. Cl 145 SC 145.2. Yseboodt, Lennart Comment Type T In state ENTRY_SE This should be "alt_d Copy paste mistake SuggestedRemedy Change "alt_done_p	Response Status C 5.7 P152 Philips Lighting Comment Status A C the variable "alt_done_pri" is set done_sec". versus baseline yseboodt_03_111 pri" to "alt_done_sec".	to False.	# <u>r02-32</u>
carries the measur Response ACCEPT. Cl 145 SC 145.2 Yseboodt, Lennart Comment Type T Variables option_c variable in the do_ SuggestedRemedy Add both variables Response	easured power value at the PI, at red energy consumption value at <i>Response Status</i> <b>C</b> <b>2.5.6</b> <i>P</i> 140 Philips Lighti <i>Comment Status</i> <b>A</b> class_probe_pri and option_class initialize function.	nd the 'Energy me the PI, as define <i>L</i> 18 ng	easurement' field d in Table 79-7b." # <u>r02-29</u> PSE SD	Change to: !option_d Response ACCEPT. C/ 145 SC 145.2. Yseboodt, Lennart Comment Type T In state ENTRY_SE This should be "alt_d Copy paste mistake SuggestedRemedy	Response Status C 5.7 P152 Philips Lighting Comment Status A C the variable "alt_done_pri" is set done_sec". versus baseline yseboodt_03_111	to False.	# <u>r02-32</u>

C/ 145 SC 145.2.5 Yseboodt, Lennart	.7 P153 Philips Lighting	L8 # [	02-33	C/ <b>145</b> Yseboodt, Le	SC 145.2.6.5	P <b>159</b> Philips Light	L <b>52</b> ing	# r02-35
Comment Type <b>T</b> OOS	Comment Status A		PSE SD	Comment Ty OOS	pe E	Comment Status A		PSE Detection
variable is !option_cla	SSIFICATION_SEC to CLASS_EV1 ass_probe. depend on the Single signature varia					s an invalid detection signa as defined in Table 145-10		ich exhibits any of the
SuggestedRemedy						refers to things by relative that is being referred to.	position. Problem	is, what follows is
Change to: !option_c	lass_probe_sec			SuggestedRe	emedy			
Response	Response Status C			Fix as fo	llows:			
ACCEPT.						s an invalid detection signa		ich exhibits any of the
C/ 145 SC 145.2.6 Yseboodt, Lennart	.1 P157 Philips Lighting	L17 # [	02-34	" a) Resi b) Resi	stance less tha stance greater	:" [FRAME: keep with next n or equal to R bad min, or than or equal to R bad max	, or	
Comment Type E	Comment Status A		Editorial			r than or equal to C bad min , and C bad min are defined		
OOS				Response		Response Status <b>C</b>		
And yet, the connecti (145.2.6). It would make more s What do we do with t classification, and mu If we structure things sit at the 145.X.Y lev 145.2.6 Detection 145.2.6a Connection	roughly in the same way as they ha el in this order: check cation of PDs and mutual ID ements	nder the detection sub at the same level as d ncies on detection, co	etection. c,					
SuggestedRemedy								
145.2.6a Connection 145.2.7 PSE classific 145.2.7a 4PID requir	s as follows: in of PDs [NO CHANGE] check [Bump up 1 level, change sub cation of PDs and mutual ID [NO CH ements [Bump up 1 level, move here y output [NO CHANGE]	ANGE]	re]					
Response	Response Status C							
ACCEPT								

ACCEPT.

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

Comment ID r02-35

C/ <b>145</b> SC <b>145.2.7</b> Yseboodt, Lennart	P <b>161</b> Philips Lighting	L <b>25</b>	# r02-36	C/ <b>145</b> Yseboodt, Le	SC 145.2.7.1 ennart	P <b>165</b> Philips Lighti	L <b>2</b> ng	# r02-38	
Comment Type E OOS	Comment Status A		Editorial	Comment Ty OOS	vpe E	Comment Status A		Editorial	
of class signatures. The	ich class event with a current r class signatures generated by 6 and Table 145-27 for a mapp	the PD indic	ate the PD requested	PD PI"		ction, the class sig table is ti ection, the equivalent is call	Ũ		
	at defining the PD requested C ype 1), this seems a good plac					45-13 is mentioning PD in PS PD table header.	SE section.		
SuggestedRemedy				SuggestedR	emedy				
implement Physical Lay	ragraph: Ds, a requested Class 0 is not er classification requested Cla			Change table titles to 145-13: "Class signature evaluated at the PSE PI" 145-24: "Class signature generated at the PD PI"					
Class 3."				Response		Response Status C			
Insert the same note in	145.3.6.1, on page 201, line 4.			ACCEP	Г.				
Response	Response Status C								
ACCEPT IN PRINCIPLE	-								
implement Physical Lay Class 3. PDs that reque	Ds, a requested Class 0 is not er classification requested Cla est Class 0 are assigned Class	ss 0, with a p 3 by Type 3	ower level equivalent to						
Insert the same note in	145.3.6.1, on page 201, line 4.								
C/ <b>145</b> SC <b>145.2.7</b> Yseboodt, Lennart	P <b>161</b> Philips Lighting	L <b>33</b>	# r02-37						
Comment Type E	Comment Status A		Editorial						

OOS

The sentence "The minimum power output a PSE supports depends on the assigned Class."

The equivalent dual-sig sentence says "minimum output power".

## SuggestedRemedy

Change to "The minimum output power a PSE supports depends on the assigned Class."

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 Z/withdrawn SORT ORDER: Comment ID

Cl 145 Yseboodt,	SC 145.2.7.1 Lennart	P165 Philips Lighting	L <b>23</b>	# <u>r02-39</u>
Comment OOS	Туре Т	Comment Status A		Classification
betwee		re class events than the Class time V PSE was at V Reset f es."	,	

Nothing wrong with this sentence, however it is incomplete.

A PSE is also not allowed to create 'redundant extra' class events (eg. 2 events for a PD that requests Class 3).

While this proposed shall is duplicate to the state diagram, it is important enough to warrant a PICS entry of its own.

#### SuggestedRemedy

Add the following after the quoted sentence.

"PSEs connected to a single-signature PD shall issue no more than:

- one class event when the PD requests Class 1 through 3
- three class events when the PD requests Class 4
- four class events when the PD requests Class 5 or 6
- five class events when the PD requests Class 7 or 8

between the most recent time V PSE was at V Reset for at least T Reset and a transition to any of the power up states.

PSEs connected to a dual-signature PD shall issue, for a given pairset, no more than:

- three class events when the PD requests Class 1 through 4

Response Status C

- four class events when the PD requests Class 5

between the most recent time V PSE was at V Reset for at least T Reset and a transition to any of the power up states."

### Response

ACCEPT IN PRINCIPLE.

Replace page 165, line 21-23 with:

"PSEs connected to a single-signature PD shall issue no more class events than the Class they are able to support and no more than:

- one class event when the PD requests Class 0 through 3

- three class events when the PD requests Class 4

- four class events when the PD requests Class 5 or 6

- five class events when the PD requests Class 7 or 8

between the most recent time V PSE was at V Reset for at least T Reset and a transition to any of the power up states.

PSEs connected to a dual-signature PD shall issue, for a given pairset, no more

class events than the Class they are able to support and no more than:

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 Z/withdrawn SORT ORDER: Comment ID

- three class events when the PD requests Class 1 through 4

- four class events when the PD requests Class 5

between the most recent time V PSE was at V Reset for at least T Reset and a transition to any of the power up states."

C/ 145	SC 145.2.7.2	P <b>167</b>	L <b>7</b>	# r02-40
Yseboodt, Le	ennart	Philips Lighting		
Comment Ty	vpe E	Comment Status A		Editorial
OOS				

"If the PSE implements Autoclass it shall measure P Autoclass when it reaches the POWER\_ON state and pd\_autoclass is TRUE. P Autoclass is the power provided by the PSE measured throughout the period bounded by T AUTO\_PSE1 and T AUTO\_PSE2, defined in Table 145-15. P ac\_margin, defined in Table 145-15, is the mini- mum amount of power the PSE adds to P Autoclass in order to allocate enough power to cope with increases in the link section resistance due to temperature increase. T AUTO\_PSE1 and T AUTO\_PSE2 timing is referenced from the transition of the POWER\_UP state to the POWER\_ON state."

3 instances of "the XXX\_YYY state"

#### SuggestedRemedy

Remove 'the' and 'state'.

Response Response Status C

ACCEPT.

Comment ID r02-40

C/ 145 SC 145.2.7.2 P167 L7 # r02-41	C/ 145 SC 145.2.7.2 P167 L22 # r02-42					
Yseboodt, Lennart Philips Lighting	Yseboodt, Lennart Philips Lighting					
Comment Type       TR       Comment Status A       Autoclass         "If the PSE implements Autoclass it shall measure P Autoclass when it reaches the POWER_ON state and pd_autoclass is TRUE. P Autoclass is the power provided by the PSE measured throughout the period bounded by T AUTO_PSE1 and T AUTO_PSE2, defined in Table 145-15."       For assigned Class 1-4, if the PSE measures Autoclass in 4P mode, and then switches to 2P mode, the channel losses will roughly double.       Given that the PSE does not know what the PD power is, it cannot guarantee interoperability.         Proposed solution is to require PSEs that plan to transition back into 2P mode, to also make the Autoclass measurement in 2P mode.       SuggestedRemedy         Append sentence at the end of the quoted text:       Append	Comment Type       T       Comment Status       A       Pres: Yseboor         OOS       The Autoclass timings T_AUTO_PSE1 and T_AUTO_PSE2 are referenced "from the transition of POWER_UP to POWER_ON".       This has two issues:       .         . it is not observable at the PSE PI when this happens, making it untestable       .       the PSE and PD reference points can drift apart by as much as 75ms         While the timings do work out in any permutation, it makes it hard to comprehend.       SuggestedRemedy         Recommend to pick a new unified reference point, which is always the same for PSE and PD and possible adjust timings to compensate.       Adopt yseboodt_01_0118_autoclasstime.pdf					
"Autoclass enabled PSEs that have assigned Class 1 through 4, and have measured PAutoclass in 4-pair mode, shall not transition to 2-pair mode".	Response Response Status C ACCEPT.					
Response Response Status C ACCEPT IN PRINCIPLE.	C/         145         SC         145.2.8         P167         L39         # r02-43           Yseboodt, Lennart         Philips Lighting					
Adopt changes yseboodt_03_0118.pdf	Comment Type E Comment Status A Editoria					
[Editor's note added after the close of comment resolution: the full file path is http://www.ieee802.org/3/bt/public/jan18/yseboodt_03_0118.pdf]	Table 145-16 has been placed inside of 145.2.8.1.SuggestedRemedyMake 145.2.8.1 start AFTER Table 145-16.					
	Response Response Status C ACCEPT.					

Cl 145 SC 1 Yseboodt, Lennart	45.2.8.1	P <b>167</b> Philips Lighting	L <b>46</b> g	# r02-44	C/ <b>145</b> Yseboodt,	SC 145.3.6.1. Lennart	1 P203 Philips Lighting	L <b>31</b>	# r02-46
Comment Type OOS	_	omment Status A		Editorial		51	Comment Status A d employ appropriate methods	s (such as hyste	<i>Editorial</i> resis in V Mark_th ) to
"145.2.8.1	1 Output volta	ge in the POWER_ON s	tate"		Fails to	o explain what kin	d of transitions are meant.		
We don't	use 'the XXX	state' construction			Suggested				
SuggestedRemedy	/				Replac	-			
Change to: "145.2.8.1 Out	put voltage in	POWER_ON"			avoid	erroneous transiti	d employ appropriate methods		
Response	Re	esponse Status <b>C</b>				oltage to a mark	voltage or vica versa."		
ACCEPT IN PI	RINCIPLE.				Response ACCE	PT.	Response Status C		
		a power on state"			<i>Cl</i> <b>145</b> Yseboodt,	SC 145.3.6.2	P <b>204</b> Philips Lighting	L <b>8</b>	# r02-47
C/ 145 SC 1 Yseboodt, Lennart	45.3.3.3.5	P <b>191</b> Philips Lighting	L44	# r02-45	Comment		Comment Status A		Editoria
Arc from POW (V PD >= V Of Our conventior SuggestedRemedy	VERED to PO if_PD)" company n in these stat v >= Voff_PD" I	omment Status R WER_UPDATE became ared to draft 3.1. e diagrams is to use x>y back to "VPD > Voff_PD esponse Status C	v and x≺y and n			ed to say 'state'. <i>IRemedy</i> 'state'.	on to state DO_CLASS_EVEN	JT1"	
REJECT.	Re				ACCE	PT.			
		vhere neither arc leaving DATE when it should.	POWERED is	true and the PD would	C/ 145 Yseboodt,	SC 145.3.8 Lennart	P <b>205</b> Philips Lighting	L16	# r02-48
·	_				Comment	Type TR	Comment Status A		Editoria
						145-29, item 3, fo paste mistake.	r dual-signature, last row is lal	belled "Class 7 t	0 8".
					Suggested	IRemedy			
					Chang	e to "Class 5"			
					Also, t	ooth descriptions	or item 3 need to be appende	d with "per the a	ssigned Class".
					Response ACCE		Response Status C		
TYPE: TR/technica	al required EF	Pleditorial required CP/	apperal required	L T/technical E/editorial C/o		PT.	Commer	of ID =02-49	Page 12

Comment ID r02-48

C/ 145 SC 145.3.8 Yseboodt, Lennart	P <b>205</b> Philips Lighting	L <b>30</b>	# r02-49	C/ <b>145</b> Yseboodt, Le	SC 145.3.8.1 nnart	P <b>208</b> Philips Lighting	L <b>7</b> g	# r02-52
Comment Type ER OOS	Comment Status A		Editorial	<i>Comment Ty</i> "The PD		Comment Status <b>A</b> at a voltage in the range of V C	Off_PD."	Inrusl
Table 145-29, item 5 (II 5 are both 0.4.	nrush_PD-2P), the values for c	lual-sig Class	1-4 and dual-sig Class	Except w SuggestedRe	hen in the INF	RUSH state		
SuggestedRemedy Merge into single entry.				Replace	by:	at a voltage in the range of V C	Off_PD, except	when in INRUSH."
Response ACCEPT.	Response Status C			Response ACCEPT	IN PRINCIPL	Response Status <b>C</b> E.		
C/ 145 SC 145.3.8 Yseboodt, Lennart	P <b>205</b> Philips Lighting	L <b>36</b>	# <u>r02-50</u>	Change for the of V Off_		ning POWER_DELAY, the PD	) shall turn off a	t a voltage in the range
Comment Type E OOS	Comment Status A		Editorial	<i>CI</i> <b>145</b> Yseboodt, Le	SC 145.3.8.1 nnart	P <b>208</b> Philips Lighting	L <b>15</b> g	# r02-53
Table 145-29, item 7, T	delay, description is "Inrush to	operating stat	e delay per pairset"	Comment Ty OOS	pe E	Comment Status R		Editoria
Per the changes we ma the 'per pairset' is redur SuggestedRemedy	ade to item 6, described as: "In ndant.	rush to PD cu	rent control delay"	shall stay	on over the e	at a voltage in the range of V C entire V Port_PD-2P range. Th	ne PD shall turn	off at a voltage in the
Remove 'per pairset' fro	om the Parameter			apply to	each pairset ir	r dual-signature PDs the requ idividually. A PD shall not turn	off due to peak	c power draw, causing
Response ACCEPT.	Response Status C			transient		Voverload-2P , as specified in 145.3.8.6. This behavior is en		
C/ 145 SC 145.3.8 Yseboodt, Lennart	P <b>207</b> Philips Lighting	L16	# r02-51	value wh	en fed by V Po	r off without startup oscillation ort_PSE-2P min to V Port_PS e less than or equal to R Ch .	E-2P max (as c	lefined in Table 145-16)
Comment Type <b>E</b> Table 145-29, item 17,	Comment Status <b>A</b> itemnumber is in bold when it s	should not be.	Editorial		f_PD min. It is	s recommended that a PD imp		
SuggestedRemedy				The part	between !!! se	eems to be misplaced and bel	ongs to the pre	vious paragraph.
Unbold.				SuggestedRe	emedy			
Response	Response Status C			Move ser	ntences highlig	phted with !!! to the paragraph	above it.	
ACCEPT.				<i>Response</i> REJECT		Response Status C		
				That can	ionoo io thoro	bacques the bystoresis that it	auggooto io to	actual atortum appillation

That sentence is there because the hysteresis that it suggests is to solve startup oscillation

Comment ID r02-53

Cl 145 SC Yseboodt, Lenna	145.3.8.1 Irt	P <b>208</b> Philips Lighting	L18	# r02-54	C/ 145 S Yseboodt, Len	SC 145.3.8. nart	2 P208 Philips Lighting	L <b>45</b>	# r02-56
PD transition or may not di TRUE interop	is to NOPOW raw mark cur perability bet	Comment Status A ER_DELAY or POWERED ar /ER and may show a valid or rent, draw any class current, ween PSE and PD is no long hanges to the state diagram of	invalid detectio and show MPS er guaranteed."	n signature, and may	SuggestedRer	PAutoclass_	Comment Status A PD" is written without subscript script. Response Status C	i.	Editoria
NOPOWER	D is in POW	EROFF and V PD falls below w a valid or invalid detection ass current, and show MPS.	signature, and r	may or may not draw		SC 145.3.8. nart	4 P211 Philips Lighting	L1	# <u>r02-57</u>
interoperabili Response ACCEPT.	•	SE and PD is no longer guar <i>Response Status</i> <b>C</b>	anteed."			uations may sification ar	Comment Status A / be used to calculate P Peak_f d for Autoclass by substituting		
C/ 145 SC Yseboodt, Lenna	<b>145.3.8.2</b> Irt	P <b>208</b> Philips Lighting	L <b>35</b>	# r02-55			say "for Class x", but that needs est to add it to the quoted sente		ed Class. It doesn't fit in
negotiates a classification	higher power as defined in if the PD has	Comment Status A ore power than P Autoclass_ r level, up to the PD requeste n 145.5." s either performed L1 Autocla	d Class, throug	h Data Link Layer	Layer clas Autoclass The Class	y: uations may sification ar _PD.	/ be used to calculate P Peak_f d for Autoclass by substituting in Equation (145-25) and Equat	PDMaxPower	Value with P
SuggestedRement "A PD that hat Autoclass thr successfully	<i>dy</i> as enabled A rough DLL, s negotiates a	utoclass during Physical Lay hall not draw more power tha different power level, up to th s defined in 145.5."	n P Autoclass_I	PD, unless the PD	Response ACCEPT.		Response Status C		
Response ACCEPT.		Response Status C							

C/ 145 S	C 145.3.8.4	P <b>211</b>	L <b>4</b>	# r02-58	C/ 145	SC 145.3.8.6	6 P <b>212</b>	L <b>22</b>	# r02-61
Yseboodt, Lenr	nart	Philips Lightin	g		Yseboodt, L	ennart	Philips Lightir	ng	
Comment Type	TR	Comment Status A		PD Power	Comment Ty	/pe E	Comment Status A		Editor
		45-26 result in PDMaxPowe of a Watt) multiplied by a co			(for TR1		FR2, and TR3 tests consists over from the 'initial voltage' to		
This results	s in PPeak_P	D being 10x too large.			SuggestedR	emedy			
SuggestedRem		5 5			Change		R3 tests consists of a voltage	source with a	current limit (for TP1
	ry constant by	y 10.					the 'initial voltage' to the 'fina		
So constan For both ec		1.05 become 0.129 0.111 0.	105.		Response	-	Response Status C	-	
Response		Response Status C			ACCEP	Ι.			
ACCEPT.					C/ 145	SC 145.3.8.9	<i>P</i> 213	L <b>8</b>	# r02-62
C/ 145 S	C 145.3.8.4	P <b>211</b>	L <b>4</b>	# r02-59	Yseboodt, L	ennart	Philips Lightir	ng	
Yseboodt, Lenr		Philips Lightin		102 00	Comment Ty	vpe E	Comment Status A		Editori
after Data I with PAuto	Link Layer cla class_PD." is Ilue cannot b	quations may be used to calo assification and for Autoclass wrong. e mixed with a Power level			Response	e "a" to this fiel	ld. Response Status <b>C</b>		
Change to Data Link L	"These equa _ayer classific	tions may be used to calcula cation and for Autoclass by s e of PAutoclass_PD." Response Status <b>C</b>			ACCEP	Ι.			
ACCEPT.									
C/ <b>145</b> Si Yseboodt, Lenr	C 145.3.8.6 nart	P <b>212</b> Philips Lightin	L <b>14</b> g	# r02-60					
Comment Type Table 145-3		Comment Status A Source dv/dt" has unfortunat	e line break in	Editorial the last row.					
SuggestedRem	nedy								
Fix.									

CI 145SC 145.3.8.9P213L44# r02-63Yseboodt, LennartPhilips Lighting	Cl         145         SC         145.3.9         P215         L31         #         r02-64           Yseboodt, Lennart         Philips Lighting         P10         P10 <td< td=""></td<>				
Comment Type TR Comment Status A Unbalance	Comment Type TR Comment Status A MPS				
"Single-signature PDs shall not exceed I Unbalance_PD-2P for longer than T CUT min and 5 % duty cycle, and shall not exceed I Unbalance_peak-2P , as defined in Table 145-31 on any pair when PD PI pairs of the same polarity are connected to any voltage in the range of V Port_PSE-2P min + 0.31 V to V Port_PSE-2P max through two common mode resistances, R source_min and R source_max, as defined in Equation (145-28) and shown in Figure 145-30."	"A single-signature PD shall use the I Port_MPS value associated with assigned Class 5 to 8 when pse_assigned_class is 5, 6, 7, or 8, or when PDRequestedPowerValue is greater than 255." We need to weave in an exception for when PDRequestedPowerValue == 0xACAC, because in that case, assigned Class is leading.				
"when PD PI pairs of the same polarity are connected to any voltage in the range of"	SuggestedRemedy				
does not make sense. We really want to indicate the PD is to be connected in 4-pair mode, with two positive pairs and two negative pairs.	Change as follows: "A single-signature PD shall use the I Port_MPS value associated with assigned Class 5 to 8 when pse_assigned_class is 5, 6, 7, or 8, or when PDRequestedPowerValue is greater than 255, but not equal to 0xACAC."				
Fortunately, we have a Table that lists all of those options!	This has become very ugly any better way to specify this ?				
SuggestedRemedy					
"Single-signature PDs shall not exceed I Unbalance_PD-2P for longer than T CUT min and 5 % duty cycle, and shall not exceed I Unbalance_peak-2P , as defined in Table 145-31 on any pair when the PD is connected per any valid 4-pair configuration, as defined in Table	Response Response Status C ACCEPT IN PRINCIPLE.				
145-20, to any voltage in the range of V Port_PSE-2P min + 0.31 V to V Port_PSE-2P max through two common mode resistances, R source_min and R source_max, as defined in Equation (145-28) and shown in Figure 145-30."	Change as follows: "A single-signature PD shall use the I Port_MPS value associated with assigned Class 5 to 8 when pse_assigned_class is 5, 6, 7, or 8, or when PDRequestedPowerValue is in the range of 256 to 999. When PDRequestedPowerValue or PSEAllocatedPowerValue is				
Same change for dual.	equal to 0xACAC, the PD shall use the I Port_MPS value associated with the assigned				
Response Response Status C	class.				

ACCEPT.

C/ 145 SC 145.3.9 Yseboodt, Lennart	P <b>215</b> Philips Lighting	L <b>44</b>	# r02-65		C/ <b>145</b> Yseboodt, I	SC 145.4.9.4. Lennart		P <b>229</b> Philips Lightin	L <b>50</b> g	# r02-66	
Comment Type TR	Comment Status A			MPS	Comment T	Туре <b>т</b>	Comment S	tatus A		AES	
	"A PD shall meet the T MPS_PD requirement with a series resistance of R Ch , which represents the worst case cable resistance between the measurement point and the PD PI."				"Calculations that result in PSANEXT loss values greater than 67 dB shall revert to a requirement of 67 dB minimum."						
	requirement that only applies				We car	n shave off a sep	arate shall by i	ncorporating t	his into the equ	ation.	
-	Also, there is no reason to imply the measurement must be made at the far end of the resistance. We're measuring current, which is identical at either end.				Suggested	Remedy					
					Replace Equation (145-36) as follows:						
SuggestedRemedy											
Replace by:					PSANE	EXT loss - min(67	7, 70.5 - 20 * log	g10(f/100))			
	MPS_PD requirement with a the PD PI and the source."	series resistan	ice in the range of 0		and delete quoted text.						
Response	Response Status C				Response		Response St	atus <b>C</b>			
ACCEPT IN PRINCIPL	.E.				ACCEF	PT IN PRINCIPLI	Ξ.				
Change: "A PD shall meet the TMPS_PD requirement with a series resistance of RCh, which represents the worst case cable resistance between the measurement point and the PD PI."					Editor to update equation and requirement to align with clause 55.						
					[Editor's Note added after comment resolution: replacing a shall that limited the result to						
	he TMPS_PD and TMPDO_PD of RChan between the PD PI RUE."	•			67dB with text from clause 55 that instead states 'results that exceed 67dB a information only.' The goal is to harmonize 802.3 and get rid of redundant shalls.]						

C/ 145 SC 145.4.9. Yseboodt, Lennart	4.2 P230 Philips Lighting	L <b>9</b>	# r02-67	C/ <b>145</b> SC Peker, Arkadiy	345.3.8.3	P <b>209</b> Microsemi Co	L <b>34</b> rporation	# r02-69
Comment Type T	Comment Status A	-	AES	Comment Type	TR	Comment Status A		Inrusl
"Calculations that res requirement of 67 dB	ult in PSAFEXT loss values gre minimum."	ater than 67 dE	3 shall revert to a	inrush curre	nt to IInrush	owing text is missing (chargir and IInrush-2P, defined in T rt-2P to VPort_PSE-2P wher	able 145-16, wl	
We can shave off a se	eparate shall by incorporating the	nis into the equ	ation.	SuggestedReme	edy			
SuggestedRemedy				Change fron				
Replace Equation (14	5-37) as follows:					current to Ilnrush and Ilnrus		n Table 145-16, which is
PSAFEXT loss - min(	67, 67 - 20 * log10(f/100))			sufficient cu To:	rrent to cha	ge CPort or CPort-2P to VP	ort_PSE-2P"	
	67, 67 20 log10(1700))				s the inrush	current to Ilnrush and Ilnrus	h-2P, defined ir	Table 145-16, which is
and delete quoted tex	t.				rrent to cha	ge CPort or CPort-2P to VP	ort_PSE-2P witl	nin TInrush_PD max
Response	Response Status C			when"				
ACCEPT IN PRINCIP	LE.			Response		Response Status W		
Editor to update equa	tion and requirement to align wi	ith clause 55.		ACCEPT.				
67dB with text from cl information only.	after comment resolution: repla ause 55 that instead states 'res ize 802.3 and get rid of redund	sults that excee						
C/ 145 SC 145.5.3. Yseboodt, Lennart	2.5 P239 Philips Lighting	L <b>14</b>	# r02-68					
Comment Type E Need Wider INITIALIZ	Comment Status <b>A</b> ZE block, same width as IDLE, t	to have statem	<i>Editorial</i> ents on one line.					
SuggestedRemedy								
	ALIZE block. Also on page 240	)						
Response	Response Status C							
ACCEPT.								

C/ 145 SC	C 145.4.1	P <b>217</b>	L <b>39</b>	# r02-70	C/ 145	SC 145.1		P1	109	L <b>21</b>	# r02-71
Peker, Arkadiy		Microsemi Cor	poration		Stover, Dav	id		Analo	og Device	es Inc.	
		Comment Status A I-signature PDs shall have le			•	a space be		omment Status ntences	5 <b>A</b>		Editoria
defined in 14 See Table 7 There are di between pai	45.1.3, of eitl '9-6f." is impo iodes betwee irs of the san	her Mode is less than VOff_F possible to meet due to the fo on some of the pins that are l he polarity that the PSE is re he minimum requirement to k	PD min, as defir llowing reasons ow impedance. quired to suppo	ned in Table 145-29. : It should be isolated rt only i.e. the	To:	: nply Midspa		D is an elemei PD is an eleme			
SuggestedReme	ədy				Response		Re	sponse Status	С		
between any defined in 14 See Table 7	y one conduc 45.1.3, of eitl '9-6f."	ature PDs shall have less th ctor of Mode A and any one of her Mode is less than VOff_F	conductor of Mo PD min, as defir	de B when VPD, as led in Table 145-29.	add the			ns. The PD is	an eleme	nt"	
negative pai	irs when VPI	shall have less than or equa ), as defined in 145.1.3, of e 29. See Table 79-6f."			C/ <b>145</b> Stover, Dav	SC 145.2 id	2.2		<b>114</b> og Device	L <b>49</b> es Inc.	# r02-72
Response ACCEPT IN	PRINCIPLE	Response Status W			Comment T Period			o <i>mment Status</i> n marks (2 loc			Editoria
or pairs unle (145.2.4).	ess otherwise	shall meet all specifications e noted." as a new paragraph			0	Remedy "Endpoint Ipoint PSE'					
one conduct	al-signature tor of Mode A	PDs shall have less than or a A and any one conductor of N s less than Voff_PD min, as	/lode B when V	PD, as defined in		"Midspan span PSE"					
	nductor of Me	shall have less than or equal ode A and any negative conc	luctor of Mode I		Response ACCEP	Т.	Rea	sponse Status	С		

C/ 145 SC 145.2.2 P115 L1 C/ 145 SC 145.2.7 P162 L19 # r02-75 # r02-73 Stover, David Stover, David Analog Devices Inc. Analog Devices Inc. Comment Type E Comment Status A **F**ditorial Comment Type E Comment Status A "PSEs can be compatible with any of the following: 10BASE-T, 100BASE-TX, 1000BASET, Missing a space between words 2.5GBASE-T. SuggestedRemedy 5GBASE-T, 10GBASE-T." Change: "Pac\_margin,as defined ... " 1000BASE-T is missing a hyphen To: SuggestedRemedy "Pac\_margin, as defined ... " Change Response Response Status C "1000BASET" ACCEPT IN PRINCIPLE. То "1000BASE-T" change to: "increased by at least Pac\_margin, as defined in" Response Response Status C ACCEPT. C/ 145 P165 SC 145.2.7.1 L33 # r02-76 Stover. David Analog Devices Inc. SC 145.2.5.4 P134 L**44** C/ 145 # r02-74 Comment Status A Comment Type Е Editorial Stover, David Analog Devices Inc. " If the Autoclass enabled PSE in CLASS EV1 AUTO measures" Comment Status A Comment Type G **F**ditorial state name is missing underscores "temp\_var\_sec" refers to "pd\_class\_sig\_pri", should refer to "pd\_class\_sig\_sec". SuggestedRemedy SuggestedRemedy Change "CLASS EV1 AUTO" to "CLASS\_EV1\_AUTO" Change: Response Response Status C A variable used to store the previous value of the variable pd\_class\_sig\_pri for the ACCEPT. Secondary Alternative. To: C/ 145 SC 145.2.8.1 P169 L32 # r02-77 A variable used to store the previous value of the variable pd class sig sec for the Lukacs, Miklos Silicon Laboratories Secondary Comment Type Е Comment Status A Editorial Alternative. The reference to 145.1.3 in the "Additional Information" of row 13 of Table 145-16 is wrong. Response Response Status C The cited sub-clause has no information about Ptype. ACCEPT. SuggestedRemedy Remove the reference. Response Response Status C ACCEPT.

C/ 145 SC 145.2.8.8 P178 L12 C/ 145 SC 145.2.8.12 P179 L52 # r02-81 # r02-78 Lukacs, Miklos Silicon Laboratories Lukacs, Miklos Silicon Laboratories Comment Type Е Comment Status A **F**ditorial Comment Type Е Comment Status A Editorial Ilps is referring to to a current on a pairset, but this is not shown in the name of this Ilps is referring to to a current on a pairset, but this is not shown in the name of this parameter. parameter. SuggestedRemedy SuggestedRemedy Rename Ilps to Ilps-2p Rename llps to llps-2p Response Response Status C Response Response Status C ACCEPT. ACCEPT. SC 145.2.8.8 P178 # r02-79 C/ 145 SC 145.2.8.12 P180 L4 # r02-82 C/ 145 L32 Silicon Laboratories Lukacs, Miklos Silicon Laboratories Lukacs. Miklos Comment Type Е Comment Status A Editorial Comment Type Comment Status A Editorial G Ilps is referring to to a current on a pairset, but this is not shown in the name of this Ilps is referring to to a current on a pairset, but this is not shown in the name of this parameter. parameter. SuggestedRemedy SuggestedRemedy Rename Ilps to Ilps-2p Rename Ilpsto Ilps-2p Response Response Response Status C Response Status C ACCEPT. ACCEPT. SC 145.3.2 C/ 145 SC 145.2.8.8 P178 L40 # r02-80 C/ 145 P183 L16 # r02-83 Silicon Laboratories Lukacs, Miklos Silicon Laboratories Lukacs, Miklos Comment Type E Comment Status A Comment Type Ε Comment Status A Editorial Editorial Ilps is referring to to a current on a pairset, but this is not shown in the name of this Adverb is missing from the following sentence: The PD shall withstand any voltage from 0 V to 57 V applied per any of the valid parameter. configurations defined in Table 145-20 indefinitely without permanent damage. SuggestedRemedy SuggestedRemedy Rename Ilps to Ilps-2p add "to the PD PI" Response Response Status C ACCEPT. ... 57V applied to the PD PI per any ... Response Response Status C ACCEPT.

Comment Type <b>TR</b> Comment Status <b>A</b> (MPS) When combining all of the PD MPS requirements into a table, we inadvertantly caused Type <b>3</b> and Type <b>4</b> Pbs to far we more power (than Type <b>1</b> and 2) when connected to Type <b>3</b> and <b>4</b> , we reduce the margin from fins to fins, but requirement with a group <b>4</b> and <b>4</b> , we reduce the margin from fins to fins, but requirement with a series resistance of the capa and finge <b>4</b> and <b>5</b> best and <b>4</b> we more power requirement to to ob the 15ms requirement. Also, we should make sure Tmpdo, pd is met with the cable impedance present. Suggested/Remedy Tro: <b>A</b> PD shall meet the TMPS, PD and TMPDO, PD requirement with any series resistance balke most case cable resistance between the measurement point and the pD PI. <sup>1</sup> Tro: <b>A</b> PD shall meet the TMPS, PD and TMPDO, PD requirements with any series resistance barkers and RCh between the measurement point and the pD PI. <sup>1</sup> Tro: <b>A</b> PD shall meet the TMPS, PD requirement with a series resistance of RCh, which represents the worst case cable resistance between the measurement point and the pD PI. <sup>1</sup> Tro: <b>A</b> PD shall meet the TMPS, PD requirements with any series resistance between the measurement point and the pD PI. <sup>1</sup> Tro: <b>A</b> PD shall meet the TMPS, PD requirements with any series resistance between the measurement point and the pD PI. <sup>1</sup> Tro: <b>A</b> PD shall meet the TMPS, PD requirements with any series resistance between the measurement point and the pD PI. <sup>1</sup> Tro: <b>A</b> PD shall meet the TMPS, PD requirements with any series resistance between the measurement point and the pD PI. <sup>1</sup> Tro: <b>A</b> PD shall meet the TMPS, PD requirements with any series resistance between the measurement point and the pD PI. <sup>1</sup> Tro: <b>A</b> PD shall meet the TMPS, PD requirements with any series resistance between the measurement point and the pD PI. <sup>1</sup> Tro: <b>A</b> PD shall meet the TMPS, PD requirements with any series resistance in the range of RCh and between the measurement point and the pD PI. <sup>1</sup> <b>C 145</b> <b>S</b> C <b>1452</b>	C/         145         SC         145.3.9         P 215         L 44         # [r02-84]           Abramson, David         Texas Instruments Inc	C/ 1         SC 1.4.289         P24         L29         # r02-85           Thompson, Geoffrey         Individual
When combining all of the PD MPS requirements into a table, we inadventantly caused type 3 and Type 4 PDs to draw more power (than Type 1 and 2) when connected to Type 1 and Type 4 PDs to draw more power (than Type 1 and 2) when connected to Type 1 and Type 4 PDs to draw more power (than Type 1 and 2) when connected to Type 1 and Type 2 PSEs.       The data impedance there (means in that the PD E) Traps.pd to be measured with the cable impedance and PC capacitance as the PD E Traps.pd to be measured with the cable impedance there (meaning that the PD D beigner hat to account for the effect of the cap and impedance there (meaning that the PD D beigner hat to be account for the effect of the cap and impedance there (meaning that the PD D beigner hat to be account for the effect of the PD II.       The definition to "This section: The point-to-point medium connection between the active PSE Power Interface (PI) and the PD II.         Also, we should make sure Tmpdo_pd is met with the cable impedance there (meaning that the PD P).       Suggested/Remady         Response Status C       Response Status C         ACCEPT IN PRINCIPLE.       Change: 'A PD shall meet the TMPS_PD and TMPDO_PD requirements with any series resistance between the PD P. The series resistance between the PD P. The series resistance between the measurement point and the source when the PD P. The series the worst case cable resistance between the measurement point and the source when the PD P. The series resistance between the measurement point and the source when the PD P. The series the worst case cable resistance between the measurement point and the source when the response Status C       Change C 14.52.57       P142       L6       # fore-46.         Corneent Type Series       Resonraes       Response Status C <td></td> <td></td>		
cable impedance and PD capacitance as the PSE limit was 80ms. For Type 3 and 4, we reduced the margin from firsts to time, but required the PD Things, pd to be measured with the cable impedance there (meaning that the PD designer had to account for the effect of the cap and impedance). However, the sontences (which were separate) got combined into a single sentence when all the numbers were moved to a table, adding the cap/impedance requirement on to of the 15ms margin for the 75ms requirement.       Remove the change to the base standard detailed on page 24, lines 28 through 31 (labeled as cl. 1.4.2.54) from the draft for PS0.30t.         SuggestedRemedy       Change: 'A PD shall meet the TMPS_PD requirement with a series resistance of RCh, which represents the worst case cable resistance between the measurement point and the PD PI.       Editor to update amendment to be based on 802.3-2018 current revision.         Change: 'A PD shall meet the TMPS_PD and TMPDO_PD requirements with any series resistance between the measurement point and the PD PI.       Editorial Key Comparison of the URS A Key Comparison of RCh, which represents the worst case cable resistance between the measurement point and the PD PI.       Cl 145 SC 145.2.5.7 P142 L6 # f02-86         Change: 'A PD shall meet the TMPS_PD requirements with any series resistance of RCh, which represents the worst case cable resistance between the measurement point and the PD PI.       Cl 145 SC 145.2.5.7 P142 L6 # f02-86         Change: 'A PD shall meet the TMPS_PD and TMPDO_PD requirements with any series resistance in the range of RChan between the PD PI and the source when long_class_event = TRUE.'       Comment Type ER Comment Status A Second Time PSE to the PD.         Change: 'A PD shall meet the TMPS_PD and TMPDO_PD requirements w	When combining all of the PD MPS requirements into a table, we inadvertantly caused Type 3 and Type 4 PDs to draw more power (than Type 1 and 2) when connected to Type	The definition for "link section" has been updated in the revision of 802.3 (Ref: P802.3cj, cl. 1.4.289 quoted below) therefore the change to the base standard requested on page 24,
cap/impedance requirement on top of the 15ms margin for the 75ms requirement.         Also, we should make sure Tmpdo_pd is met with the cable impedance present.         SuggestedRemedy         Change: * AP D shall meet the TMPS_PD requirements with any series resistance between the measurement point and the pD PI.*         To: 'A PD shall meet the TMPS_PD and TMPDO_PD requirements with as series resistance of RCh, which represents the worst case cable resistance between the PD PI and the source when long_class_event = TRUE.*         Response       Response Status C         ACCEPT IN PRINCIPLE.         Change: 'A PD shall meet the TMPS_PD and TMPDO_PD requirements with any series resistance between the measurement point and the PD PI.*         To: 'A PD shall meet the TMPS_PD and TMPDO_PD requirements with any series resistance between the measurement point and the PD PI.*         To: 'A PD shall meet the TMPS_PD and TMPDO_PD requirements with any series resistance between the measurement point and the PD PI.*         To: 'A PD shall meet the TMPS_PD and TMPDO_PD requirements with any series resistance between the PD PI and the source when long_class_event = TRUE.*         Change: 'A PD shall meet the TMPS_PD and TMPDO_PD requirements with any series resistance of RCh, which represents the worst case cable resistance between the pDI and the source when long_class_event = TRUE.*         NoggestedRemedy         Suggest dRemedy         Suggest dRemedy         Suggest dRemedy         Suggest dRemedy         Suggest dRemedy	cable impedance and PD capacitance as the PSE limit was 60ms. For Type 3 and 4, we reduced the margin from 15ms to 1ms, but required the PD Tmps_pd to be measured with the cable impedance there (meaning that the PD designer had to account for the effect of the cap and impedance). However, the sentences (which were separate) got combined	Interface (PI) and the PD PI. SuggestedRemedy Remove the change to the base standard detailed on page 24, lines 28 through 31 (labeled
Also, we should make sure Tmpdo_pd is met with the cable impedance present. SuggestedRemedy Change: "A PD shall meet the TMPS_PD requirement with a series resistance of RCh, which represents the worst case cable resistance between the measurement point and the PD PI." Tro: "A PD shall meet the TMPS_PD and TMPDO_PD requirements with any series resistance between 00 mms and RCh between the PD PI and the source when long_class_event = TRUE." Change: "A PD shall meet the TMPS_PD requirement with a series resistance of RCh, which represents the worst case cable resistance between the measurement point and the PD PI." Tro: "A PD shall meet the TMPS_PD requirement with a series resistance of RCh, which represents the worst case cable resistance between the measurement point and the PD PI." Tro: "A PD shall meet the TMPS_PD requirements with any series resistance in the range of RChan between the PD PI and the source when long_class_event = TRUE." Comment Type ER Comment. Response Response Status W ACCEPT. CI 145 SC 145.2.5.7 P142 L6 # f02.86 Use comment. Response Response Status A Editorial SuggestedRemedy See comment. Response Response Status W ACCEPT. CI 145 SC 145.2.5.7 P142 L6 # f02.86 Use comment. Response Response Status A Editorial SuggestedRemedy See comment. Response Response Status W ACCEPT. CI 145 SC 145.2.5.7 P146 L37 # f02.87 Law, David Hewlet Packard Enter Comment Type ER Comment Status A FSE SD In Figure 145-13. on the transition from POWER_ON to ERROR_DELAY, in the second In figure 145-13. on the transition form POWER_ON to ERROR_DELAY, in the second In figure 145-13. on the transition form POWER_ON to ERROR_DELAY, in the second In figure 145-13. on the transition form POWER_ON to ERROR_DELAY, in the second In figure 145-13. on the transition form Sec should read 'error_sec' (space needs to be replaced with an underscore). SuggestedRemedy See comment. Response Response Status W		Response Response Status W
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Change: "A PD shall meet the TMPS_PD requirement with a series resistance of RCh, which represents the worst case cable resistance between the measurement point and the PD PI."       See comment.         To: "A PD shall meet the TMPS_PD and TMPDO_PD requirements with any series resistance in the range of RChan between the PD PI and the source when long_class_event = TRUE."       Response       Response Status       W         Image: "A PD shall meet the TMPS_PD and TMPDO_PD requirements with any series resistance in the range of RChan between the PD PI and the source when long_class_event = TRUE."       Image: "Cl 145 SC 145.2.5.7 P146 L 37 # r02-87"       Law, David         Hewlett Packard Enter       Comment Type       ER       Comment Status       A       PSE SD         In Figure 145-13, on the transition from POWER_ON to ERROR_DELAY, in the second line of the equation, 'error sec' should read 'error_sec' (space needs to be replaced with an underscore).       SuggestedRemedy       See comment.         SuggestedRemedy       See comment.       Response       Response Status       W		Suggest that 'do_initialialize' should read 'do_initialize' in the IDLE state in Figure 145-13.
which represents the worst case cable resistance between the measurement point and the PD PI." To: "A PD shall meet the TMPS_PD and TMPDO_PD requirements with any series resistance in the range of RChan between the PD PI and the source when long_class_event = TRUE." $Response Response Status W$ ACCEPT. $CI 145 SC 145.2.5.7 P146 L37 # [02-87]$ Law, David Hewlett Packard Enter $Comment Type \ ER \ Comment Status \ A \ PSE SD$ In Figure 145-13, on the transition from POWER_ON to ERROR_DELAY, in the second line of the equation, 'error sec' should read 'error_sec' (space needs to be replaced with an underscore). $SuggestedRemedy$ See comment. $Response \ Response Status \ W$		SuggestedRemedy
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To: "A PD shall meet the TMPS_PD and TMPDO_PD requirements with any series resistance in the range of RChan between the PD PI and the source when long_class_event = TRUE."  Cl 145 SC 145.2.5.7 P146 L37 # r02-87 Law, David Hewlett Packard Enter  Comment Type ER Comment Status A PSE SD In Figure 145-13, on the transition from POWER_ON to ERROR_DELAY, in the second line of the equation, 'error sec' should read 'error_sec' (space needs to be replaced with an underscore).  SuggestedRemedy See comment.  Response Response Status W		Response Response Status W
resistance in the range of RChan between the PD PI and the source when long_class_event = TRUE."       Cl 145 SC 145.2.5.7 P146 L37 # [02-87]         Law, David       Hewlett Packard Enter         Comment Type       ER       Comment Status A       PSE SD         In Figure 145-13, on the transition from POWER_ON to ERROR_DELAY, in the second line of the equation, 'error sec' should read 'error_sec' (space needs to be replaced with an underscore).       SuggestedRemedy See comment.         Response       Response Status W		ACCEPT.
long_class_event = TRUE."       Law, David       Hewlett Packard Enter         Law, David       Hewlett Packard Enter         Comment Type       ER       Comment Status       A       PSE SD         In Figure 145-13, on the transition from POWER_ON to ERROR_DELAY, in the second line of the equation, 'error sec' should read 'error_sec' (space needs to be replaced with an underscore).       SuggestedRemedy         See comment.       Response       Response Status       W		
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See comment. <i>Response</i> Response Status <b>W</b>		line of the equation, 'error sec' should read 'error_sec' (space needs to be replaced with an
Response Response Status W		SuggestedRemedy
		See comment.
ACCEPT.		Response Response Status W
		ACCEPT.
	TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G	

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

C/ 145 SC 145.2.5.4	P134	L <b>31</b>	# r02-88	C/ 145 SC 145.2	-	P147	L <b>42</b>	# r02-91
aw, David	Hewlett Packa	ard Enter		Law, David	He	ewlett Packar	d Enter	
Comment Type E	Comment Status A		PSE SD	Comment Type T	Comment Sta	tus <b>A</b>		PSE S
Suggest that ' state dia diagram to initiate the	agram to kick off the' shou .'.	uld be changed	to read ' state	The variable pse_c Figure 145-14.	III_ready is not defined	d in subclaus	e 145.2.5.4 'Var	riables', but used in
SuggestedRemedy				SuggestedRemedy				
See comment.				Suggest that the fo	llowing is added to su	bclause 145.	2.5.4 'Variables	5':
Response	Response Status C			pse_dll_ready: See	e pse_dll_ready in 145	5.5.3.2.2.		
ACCEPT.				Response	Response Stat	us <b>C</b>		
C/ 145 SC 145.2.5.4	P129	L <b>26</b>	# r02-89	ACCEPT IN PRIN	, CIPLE.	-		
₋aw, David	Hewlett Packa	ard Enter		Copy definiton of p	se_dll_ready from 148	5.5.3.2.2 to 14	45.2.5.4	
Comment Type <b>T</b> The variable option_vpo	Comment Status A ort_lim is defined but doesn't	seem to be use	PSE SD d anywhere.	Change definition i pse_dll_ready: See	n 145.5.3.2.2 to: e pse_dll_ready in 145	5.2.5.4.		
SuggestedRemedy						Deee		"
	ort_lim isn't used delete its o unction do_initialize in subcl		ubclause 145.2.5.4 as	C/ 145 SC 145.4 Mcclellan, Brett		P <b>230</b> arvell Semico	L4 enductor	# r02-92
Response	Response Status <b>C</b>			Comment Type E	Comment Sta	tus A		Editori
ACCEPT IN PRINCIPLE	Ξ.			multiple references	to Equation (145-36)	in this parag	raph should be	Equation (145-37)
_sec)	set per this description." to the			SuggestedRemedy change "Equation Response	(145-36)" to "Equation Response Stat	· · ·	four instances o	of this paragraph
3) add "or the PSE does both _pri and _sec varia 4) remove all vport_lim e		to the end of the	e FALSE description for	ACCEPT.	·			
C/ 145 SC 145.2.5.7	P <b>143</b>	L17	# r02-90					
₋aw, David	Hewlett Packa	ard Enter						
Comment Type <b>T</b>	Comment Status A		PSE SD					
	nsition from BACKOFF to ID done' and then the second ( ircuit).							
SuggestedRemedy								
	telling and survey for a disc	BACKOFF state	be lowered so that it					
Suggest that the horizor	row box in the lower right of							
Suggest that the horizor								

C/ 126	SC 126.5.1	P <b>108</b>	L15	# r02-93
Maytum, Mich	ael	RETIRED		
Comment Typ	e G	Comment Status R		Isolation

The document confuses isolation with insulation. Isolation is a function defined by the IEC as "function intended to make dead for reasons of safety all or a discrete section of the electrical installation by separating the electrical installation or section from every source of electric energy" What the cited tests do is verify the insulation, which can be a solid, a liquid or a gas (e.g. air), or any combination, voltage withstand. For impulses the IEC defines "impulse withstand voltage as the highest peak value of impulse voltage of prescribed form and polarity which does not cause breakdown of insulation under specified conditions. Thus the sentance "This electrical isolation shall withstand at least one of the following electrical strength tests:" This sentence also occurs in 145.4.1.

### SuggestedRemedy

The electrical isolation insulation shall withstand at least one of the following electrical strength tests:

Response Response Status C

REJECT.

(1) Since a PI and BASE-T MDI are the same in the vast majority of cases it wouldn't make sense to just change the PI isolation requirements without changing the BASE-T isolation requirements at the same time, in fact not doing this at the same time could result in conflicting requirements.

(2) There is already an Isolation Ad Hoc working on this issue that is chartered to consider the isolation subclauses throughout IEEE 802.3. It is therefore better to let this conclude its work and address this issues holistically, including Clause 145.

(3) Any change to this text needs to ensure that existing implementation remain conformant.(4) This comment is out of scope as it is on unchanged text.

C/ 126	SC 126.5.1	P108	L18	# r02-94
Maytum, N	lichael	RETIRED		

Comment Type **GR** Comment Status **R** 

TC 109 publishes the horizontal standard IEC 60664 series "Insulation coordination for equipment within low-voltage systems" the preferred impulse is 1.2/50 and as a starting point for testing the peak of the AC voltage, the DC voltage and impulse peak voltage should all be the same. So 1500 V a.c. is 2121 V, close enough to the quoted 2250 V d.c and not too different to the quoted 2400 V impulse peak. In practice the AC and DC voltages are somewhat lower than the impulse peak voltage as longer term effects can come into play. In operation the insulation will be subject to impulses of voltage rather an AC or DC voltages.

### SuggestedRemedy

Ensure that the equivalent inpulse peak volrtage for insulation withstand testing is at least equal to the peak of the AC voltage or the DC voltage

Response Response Status W

REJECT.

(1) Since a PI and BASE-T MDI are the same in the vast majority of cases it wouldn't make sense to just change the PI isolation requirements without changing the BASE-T isolation requirements at the same time, in fact not doing this at the same time could result in conflicting requirements.

(2) There is already an Isolation Ad Hoc working on this issue that is chartered to consider the isolation subclauses throughout IEEE 802.3. It is therefore better to let this conclude its work and address this issues holistically, including Clause 145.

(3) Any change to this text needs to ensure that existing implementation remain conformant.(4) This comment is out of scope as it is on unchanged text.

Isolation

Isolation

C/ 145	SC 145.4.1	P <b>217</b>	L <b>26</b>	# r02-95
Maytum, I	Vichael	RETIRED		

#### Comment Type TR Comment Status R

"c) An impulse test consisting of a 1500 V. 10/700 micros waveform, applied 10 times, with a 60 s interval between pulses." This is technically incorrect for two reasons: The peak voltage is way to low and it is applicable to long distance telephone lines. The 1.5 kV 10/700 was the result of an ITU-T global study on telephone lines. As the lightning surge propagates down the line dispersion increases the front time and time to half value. together with lowering the peak voltage. An Ethernet cable is nothing like a long distance telephone line. Hence the more appropriate waveshape is 1.2/50.

### SuggestedRemedy

Replace item "c" of 145.4.1 (1.5 kV, 10/700) with item "c" of 126.5.1 (2.4 kV, 1.2/50)

Response	Response Status

REJECT.

(1) Since a PI and BASE-T MDI are the same in the vast majority of cases it wouldn't make sense to just change the PI isolation requirements without changing the BASE-T isolation requirements at the same time. in fact not doing this at the same time could result in conflicting requirements.

w

(2) There is already an Isolation Ad Hoc working on this issue that is chartered to consider the isolation subclauses throughout IEEE 802.3. It is therefore better to let this conclude its work and address this issues holistically, including Clause 145.

(3) Any change to this text needs to ensure that existing implementation remain conformant. (4) This comment is out of scope as it is on unchanged text.

C/ 126	SC 126.5.1	P <b>108</b>	L <b>21</b>	# r02-96
Maytum, Mic	hael	RETIRED		
Comment Ty	rpe <b>G</b>	Comment Status R		Isolation

#### Comment Type **G** Comment Status R

"The shape of the impulses is 1.2/50 micros (1.2 micros virtual front time. 50 micros virtual time or half value), as defined in Annex N of IEC 60950-1:2001." IEC 60950-1 will be killed off by TC 108. It is better to refer the horizontal standard that defines the 1.2/50 impulse. That standard is IEC 60060-1:2010 High-voltage test techniques - Part 1: General definitions and test requirements from TC 42.

## SuggestedRemedy

Replace " Annex N of IEC 60950-1:2001." with " IEC 60060-1"

Response Response Status C

REJECT.

(1) Since a PI and BASE-T MDI are the same in the vast majority of cases it wouldn't make sense to just change the PI isolation requirements without changing the BASE-T isolation requirements at the same time, in fact not doing this at the same time could result in conflicting requirements.

(2) There is already an Isolation Ad Hoc working on this issue that is chartered to consider the isolation subclauses throughout IEEE 802.3. It is therefore better to let this conclude its work and address this issues holistically, including Clause 145.

(3) Any change to this text needs to ensure that existing implementation remain conformant. (4) This comment is out of scope as it is on unchanged text.

Cl 145 Johnson, F	SC 145.2.5.4 Peter	P <b>1</b>	31	L <b>6</b>	# r02-97
<i>Comment</i> Variab specifi	le definitions for p	Comment Status power_available_pri		/ailable_se	PSE SD ec should be pairset
FALSE TRUE	e each of these a E: PSE is no long	ger capable of sourci to continue to source			
Response ACCE	PT.	Response Status	С		

C/ 145 SC 145.2.5.6 P138 L20 # r02-98 Johnson, Peter	C/ 145 SC 145.2.5.6 P140 L26 # r02-100
Comment Type       T       Comment Status       PSE SD         The Functions 'do_classification_pri' and 'do_classification_sec' seem highly unconventional as they seem to operate at two levels of the Primary and Secondary PSE state machines. On a per class event level, they (presumably) produce class signatures. But additionally, they return the variables pd_req_pwr_pri (sec) and pd_allocated_pwr_pri (sec) that really should come from CLASS_EVAL_PRI and CLASS_EVAL_SEC, as seems to be the case in the top level (single signature) state machine where the Function 'do_classification' simply returns the class signature from a single event as shown in the state diagrams.         SuggestedRemedy         If this is truly seen to be an issue, then 'do_classification_pri' (and sec) should just return class signatures per class event and the variables pd_req_pwr_pri (sec) and pd_allocated_pwr_pri (sec) should be defined along with pd_req_pwr in 145.2.5.4.         Response       Response Status       C         REJECT.       While you are correct that we are inconsistent, the SD is technically correct and consensus was not reached to change it.       P134       L20       # r02-99         Johnson, Peter       SC 145.2.5.4       P134       L20       # r02-99	Comment Type       T       Comment Status       A       PSE SL         The state variable 'option_vport_lim' (andpri ,sec) are shown as being returned by the Function 'do_initialize'. This does not seem to be consistent with the purpose of these variables that are defined to report an operating condition during the POWER_ON state, albeit the purpose of 'do_initialize' is not clear in the PSE state machine. First problem is that the variable 'option_vport_lim' is not used anywhere in state processing. Further, the 'pri' and 'sec' versions of these variables are processed identically to 'short_det_pri', 'short_det_sec', 'overld_det_pri' and 'overld_det_sec'. They all have meaning only during the POWER_ON state.         SuggestedRemedy         Remedies: 1) Remove from 'do_initialization' 2) Remove 'option_vport_lim' altogether 3) Specify in the definitions of 'option_vport_lim_pri' and 'option_vport_lim_sec' that "This variable is set per this description" much like the write-ups for 'overld_det_pri' and 'short_det_pri'.         Response       Response Status       C         ACCEPT IN PRINCIPLE.       1) Delete option_vport_lim from variable list.       2) add "This variable is set per this description." to the end of option_vport_lim_pri (and _sec)         3) add "or the PSE does not implement this option." to the end of the FALSE description for both _pri and _sec variables.
Comment Type       E       Comment Status A       PSE SD         The state variables short_det_pri and short_det_sec should make reference to the applicable short circuit clause much like the state variables ovld_det_pri and ovld_det_sec. This better assures that the state machine behavior of these error conditions (bundled into error_pri and error_sec) are subject to the approprite rules such as Tlim.         SuggestedRemedy       Add "See 145.2.8.8" into each of the variable descriptions.         Response       Response Status       C         ACCEPT.       ACCEPT.	<ul> <li>4) remove all vport_lim entries from do_initialize</li> <li>Cl 145 SC 145.2.5.4 P130 L49 # 102-101</li> <li>Johnson, Peter</li> <li>Comment Type T Comment Status R PSE SL</li> <li>The state variables 'power_available', 'power_available_pri', and 'power_available_sec' are described as "This variable may be set by the PSE at any time." This does not seem to be true in the state machine as this variable only appears in the POWER_ON state. It is not a pre-condition of powering a PD.</li> <li>SuggestedRemedy</li> <li>Alter the description in each of these three variables to be "This variable is set per this description." Perhaps expand the variable description to include "during normal operating state" or something to that effect.</li> <li>Response Response Status C REJECT.</li> <li>The PSE can set this variable at any time, but it is only checked in the PowerON states.</li> </ul>

"this variable is set per this description" is only used for variables that must follow the definition explicitly (in other words they act like an equation).

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C/ 145 SC 145.2.5.4 Johnson, Peter	P133	L14	# r02-102	C/ <b>145</b> Bennett, Ke	SC 145.3.8.2 en	2	P <b>208</b>	L <b>25</b>	# r02-104		
Comment Type <b>T</b>	Comment Status R		PSE SD	Comment		Comment Sta	atus A		Pres: Bennett		
The state variables 'pse_ "This variable is set per t cannot be manipulated a	reset', 'pse_reset_pri', and his description". However, t any time the by the PSE.		include the description	In table 145-29, the symbol for the parameter "input AVERAGE power" is def Pport_PD. Section 145.3.8.4.1, Peak Operating Power Exceptions, uses Ppo AVERAGE power for computations. (It's also described as an AVERAGE po 33.3.7.2.1 of the existing standard.)							
SuggestedRemedy				00.0.7		ig standard.)					
<b>o</b> 1	his variable may be set by	the PSE at any t	me."						stantaneous power.		
Response REJECT.	Response Status C			symbo	I no longer mato		d parameter.	. The proposed so	145-29, where the plution changes		
also TRUE when implem	s set according to the desc entation-specific reasons r	equire reset of P	SE functionality." In		Existing Text in						
power supply is not ready	nnot be set FALSE at any t y.	ime as this is not	allowed when the		PD is the power PD-2P is the	drawn by a singl	e-signature	PD, defined in Equ	ation (145-23).		
C/ 145 SC 145.2.5.4	P <b>128</b>	L <b>36</b>	# r02-103	Pp	ort_PD = VPD*I	port (145-23)	U	D, defined in Equa	tion (145-24).		
Johnson, Peter				Pport_PD-2P = VPD*lport-2P (145-24) For single-signature PDs, the AVERAGE value of PPort_PD shall not exceed PClass_PI							
Comment Type T	ent Type T Comment Status A PSE S					for the assigned class. For					
describe a process where	ptions for 'option_class_pro eby the 3-event class probe	e is always follow	ed by a Vreset for	a dual-signature PD, the AVERAGE value of PPort_PD-2P shall not exceed PClass_P for the assigned class.							
	mal classification procedur and 153 show a second op			Suggested	Remedy						
greater or equal to Class SEC). So whatever is in	4, the CLASS_PROBE_PI ntended with this second br	RI (and SEC) retr anch out of CLAS	urn to IDLE_PRI (and		he word "averagent the following		d 33 to lines	25 and 26, and mc	odify the equations to		
	o conflict with variable defin	nion.		PPort_	PD is the AVER	AGE power draw	n by a single	e-signature PD, de	fined in Equation		
SuggestedRemedy Either the state diagram	needs to be altered to agre	e with the variab	le description or more		<ol> <li>PPort_PD-2 fined in Equatio</li> </ol>		BE power dra	awn by a given Moo	de of a dual-signature		
clarification is required in	the variable description to	match the behav	vior in the state	,		(					
diagram.								n to (n+1) (145-			
Response	Response Status C			Pport_	PD-2P = the inf	egral of VPD(t)*I	port-2P(t) dt	from t=n to (n+1)	(145-24)		
ACCEPT IN PRINCIPLE				For sin	gle-signature Pl	Ds, the value of P	Port_PD sha	all not exceed PCla	ass_PD for the		
	rmal classification procedu and option_class_probe_se		cription of			dual-signature PI assigned class.	D, the value	of PPort_PD-2P sh	nall not exceed		
spaceeaso_propo_pri b	pion_oidoo_piodo_oo			OPTIO	N 1: Remove th	e equations:					
				AVER/ For sin assign	AGE power drav gle-signature Pl ed class. For a	n by a given Moo Ds, the value of P	de of a dual- Port_PD sha	e-signature PD. Pl signature PD. all not exceed PCla of PPort_PD-2P sł	ass_PD for the		
TYPE: TR/technical required	ER/editorial required GR/	aeneral required	T/technical E/editorial G/c	reneral			Comm	ent ID <b>r02-104</b>	Page 27 of 40		

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 Z/withdrawn SORT ORDER: Comment ID

Comment ID r02-104

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Response Respon ACCEPT IN PRINCIPLE.	se Status C			<i>Cl</i> <b>145</b> Darshan, Y	SC 145.2.5.1 air	P123	L <b>25</b>	# r02-106
adopt yseboodt_04_0118.pdf				Comment 7	Гуре Т	Comment Status R		Backofi
[Editor's note added after the clo the full file path is http://www.iee			t_04_0118.pdf]	detectio Enable BACKO	on voltage from backoff. Per the DFF state, if a 4	uired to block DC path. a switch since the DC pa e state machine in page -pair midspan is set to ps	ath is blocked. As a 143 in the exit from se_alternative = b a	result, no need to the DETECT_EVAL to nd_sig_pri = invalid, the
In the text "A SET attribute fthat. SuggestedRemedy change to "A SET atribute that"		L2 "	# <u>r02-105</u> Editorial	PSE wi Possibi a) to ac pair Mii b) mak BACKO to: mic Suggestedi 1. Add 4-pair M 2. char = invali To: (m 3. Add midspa A cons Values 0: The 1: The Response REJEC Here is "A PSE detectic in Tabla as defin Clearly Also, th (sig_pr	Il have to do ba le solution: Id text on page dspan." e changes in the DFF from: (pse_ lspan*(pse_alte <i>Remedy</i> the following te: <i>M</i> idspan operati ge the exit from d) idspan=1)*(pse the following co n tant indicating the PSE is a 4-pair PSE is not a 4-pair en signature. We a 145-16 before the following co this requirement a logic you point i = invalid) alreat	ckoff which in this case i 123 after line 24 that say alternative = b) * (sig_pri rnative = b) * (sig_pri = ir kt on page 123 after line ng over 2-pairs or 4-pairs DETECT_EVAL to BAC _alternative = b) * (sig_p nstant to 145.2.5.3 he if PSE is a 4-pair Mids Midspan. Dair Midspan. C of the paragraph you com ection using only Alterna hen this occurs, the PSE attempting another dete	s not required and ir 's "supporting backo ging the exit from DF i = invalid) nvalid) and to add a 24: "supporting back S" CKOFF from: (pse_a ri = invalid) span. Inmented on: tive B may fail to de i shall back off for at ction, except in the o peration on Alternat AL to BACKOFF: (ps	tect a valid PD least Tdbo as defined case of an open circuit ive B. secorrect. ff is not required for a lternative = b) * (sig_pri

Cl <b>145</b> SC <b>145.2.5</b> .4 Darshan, Yair	4 P <b>127</b>	L <b>5</b> 1	# r02-107	C/ <b>145</b> Darshan, Yai	SC <b>145.2.5.</b> 4 r	P133	L <b>39</b>	# r02-109
Comment Type E The link to MirroredPE SuggestedRemedy Change from Table 1 Response ACCEPT IN PRINCIP Adopt changes in ysel Also, on page 241, line [Editor's note added a the full file path is http	Comment Type       T       Comment Status       A       PS         In the following text Class 0 should be adressed as well:       "pse_ss_mode       A variable that controls whether the PSE provides power over 2 pair or 4 pair to a single signature       PD assigned to Class 1 through Class 4. This variable may be set by the PSE at any tir 0: Single-signature PD is powered over 2 pair.       1: Single-signature PD is powered over 2 pair.       1: Single-signature PD is powered over 4 pair."         Type 3 or 4 PSEs that detects PD with class 0 which they have to support over 2-pairs allowed to support it over 4-pairs as well are not covered by the above variable descript       In adition, it is not sufficient that in Table 145-11 class 0 is adressed i.e. the rest of the spec in the PSE section need to be sync to it by simply change all ocurences of "class 3" to "Class 0, Class 3" and from "Class 1 to Class X" to "Class 0 to Class X". Th are covered by seperate comments.							
that it doesn't add any See http://www.ieee80 SuggestedRemedy	Comment Status <b>D</b> is set per this description." th value. 2.org/3/bt/public/nov17/ysebc	oodt_06_1117_fi	nal.pdf	"pse_ss_ A variabl signature PD assig may be s 0: Single	the text to: mode e that controls ined to Class set by the PSE -signature PD		s 0 PD is treated as 0	ir or 4 pair to a single- Class 3 PD.This variable
Proposed Response REJECT.	variable and all others where i Response Status Z THDRAWN by the commente		aın why we need it.		<sup>-</sup> IN PRINCIPI Table 145-11	Response Status <b>C</b> .E. on page 138, line 11 wi		

C/ <b>145</b> SC <b>145.2.5.6</b> Darshan, Yair	P137	L <b>22</b>	# r02-110	C/ <b>145</b> Darshan, Y	SC <b>145.2.7</b> Yair	P162	L19	# r02-112
Comment Type T	Comment Status A		Editorial	Comment	Туре Т	Comment Status D		Pres: Darshan1
The function do_autocl	assification returns only one	variable and not	variables.	In D3.	1 we had the tex	t "PSEs that have additional i		
SuggestedRemedy						erature conditions may choos on (145-4)." and it was remov		
	unction returns the following not the following variable:"	variables:"		restore		erence between worst case m		
Response	Response Status C			Suggested	IRemedy			
ACCEPT IN PRINCIPL	.E.					after line 21 in page 162:		
To: "This function retur	unction returns the following ns the following variable:" line 35 for do_class_probe	variables:"		tempe	rature condition: 145-15."	tional information about the acts and the acts and the second sec		
C/ 145 SC 145.2.7	P146	L <b>9</b>	# r02-111	REJE	•			
Darshan, Yair	7 140	23	# 102-111	-				
Comment Type T	Comment Status D		PSE SD	This c	omment was WI	THDRAWN by the commenter	ər.	
	thesis in the logic of the PO	NER UP state v		C/ 145	SC 145.2.7	P <b>162</b>	L <b>22</b>	# r02-113
alt_pwrd_sec=TRUE a	nd tinrush timer sec is started			Darshan, Y	/air			
The current logic is:	oth) *(pse_ss_mode = 1) +(p	a allocated by		Comment	Туре Т	Comment Status D		Autoclass
alt_pwrd_sec <== TRU start tinrush_timer_sec END	IE	se_anocated_pw	1 > 4) INEN	inform	ation about the	tion to remove the text from I actual link section DC resistar Autoclass margin than that d	nce or temperatu	ure conditions may
	rd_sec=TRUE and tinrush tin			Suggested	IRemedy			
OR	and pse_ss_mode=1 [i.e. we	orking over 4-pai	rs with class 1-4j			ext after line 21: "PSEs that h		
-	l and pse_allocated_pwr>4					resistance or temperature co that defined by Equation (14		cose to use a lower
(pse_alternative=BOTH	H)* ((pse_ss_mode=1)+( pse_	_allocated_pwr>	4))	Proposed	Response	Response Status Z		
SuggestedRemedy				REJE	CT.			
THEN "	_alternative = both) *(pse_ss_	- ,	,	This c	omment was WI	THDRAWN by the commente	er.	
u _	e = both) *((pse_ss_mode = 1	) +(pse_allocate	a_pwi > 4)) Thein					
Proposed Response REJECT.	Response Status Z							
REJEUT.								
This comment was WI	THDRAWN by the commenter	er.						
This comment was with	ndrawn before the start of cor	nment resolution	1					
	initial boloro ino start of oor							

Cl 145 S Darshan, Yair	C 145.3.3.3.	3	P <b>188</b>	L <b>47</b>	# r02-114	Cl <b>145</b> Darshan,		145.3.8.3	P <b>2</b> (	)9	L <b>34</b>	# r02-115
Comment Type	e T	Comment Sta	atus A		PD SD	Comment		т	Comment Status	Α		Inrush
The definit than IInrus	ion of "tinrush h_PD and IIn	pdmax_timer A	timer used t m TInrush_P	D to Tdelay; see	from drawing more TInrush_PD max in	In the text "A PSE limits the inrush current to IInrush and IInrush-2P, defined in Table 14 16, which is sufficient current to charge CPort or CPort-2P to VPort_PSE-2P when: CPort < 180 uF for single-signature PDs assigned to Class 1 through 6" , missing important piece of information that it is done within Tinrush which is the main						defined in Table 145- PSE-2P when: lgh 6"
SuggestedRen	-						of this t		e of mormation that	it is done	within Tinrush	which is the main
TInrush_P 2. The san Change to "tinrushpdi	max_timer A t D max in Tab ne for dual-sig : max_timer_m	le 145-29." mature PD on pa	age 195 clau used to deter		IRUSH; see 2D exits INRUSH over	16, wi Tinrus CPe	ge to: text "A hich is s sh_PD	PSE limits sufficient cu max when:	the inrush current to irrent to charge CPo gle-signature PDs a	rt or CPor	t-2P to VPort_	
Response		Response Sta	tus <b>C</b>			"						
ACCEPT I	N PRINCIPLE					Response	9		Response Status	С		
2. The san Change to "tinrushpdi Mode X; so Editor to re	: max_timer_m ee TInrush_P eview usage o	nature PD on pa ode(X) A timer u D max in Table f "over Mode X"	used to deter 145-29." , "for Mode >	mine when the F	PD exits INRUSH on X" and bring them	suffici To: "A PS	ent cur E limits ent cur	rent to char	ge CPort or CPort-2 current to IInrush ar	P to VPorind IInrush-	t_PSE-2P" -2P, defined in	Table 145-16, which is Table 145-16, which is in TInrush_PD max
into alignm	ent (preferen	ce is to use "on"	').			Cl <b>145</b> Darshan,		145.3.8.3	P <b>2</b> ′	10	L <b>32</b>	# r02-116
						Comment		т	Comment Status	<b>D</b>		PD Power
						There load, The v	is an e resultin alue in	error in the to g in a lower	ext "A dual-signature than Cx + Cy capac enerally will be lower	e PD can a citance val	ue as seen by	nented with a single the PSE.".
						Suggeste	dReme	dv				
						Chan "A du Cx + 0 To: "A	ge from al-signa Cy capa A dual-s	ature PD can acitance val signature PD	n also be implement lue as seen by the P D can also be implen en by the PSE."	SE."	0	sulting in a lower than d, resulting in Cx
						Proposed	Respo	nse	Response Status	z		
						REJE	CT.		-			

This comment was WITHDRAWN by the commenter.

Comment ID r02-116

Darshan, Ya	SC <b>145.5.3.2.2</b> air	P <b>231</b>	L <b>52</b>	# r02-117	C/ <b>145</b> Darshan. Yai	SC 145.4.1	P <b>217</b>	L <b>39</b>	# r02-119
Comment Ty		Comment Status D		Pres: Yseboodt2	Comment Ty		Comment Status A		Pres: Darshan
SuggestedR Change Proposed R REJECT This cor	Remedy from Table 145 esponse T. nment was WITH	utoclassRequest is Table 14 -38 to Table 145-39 <i>Response Status</i> <b>Z</b> HDRAWN by the commente	ır.		of curren VPD, as 145-29. 3 a) we ca one cond conducti where th connecti b) The re	t between any defined in 14 See Table 79- n't ask for 10u luctor of Mode on. The intent e PSE guarar on check and/ quirement sh	A leakage current between ar e B since there are pins that c was to have isolation betwee need switching and measures for detection. ould apply to the negative pail	d any one condu an VOff_PD min ny one conductor onnected to diod n pairs of the sar the current/volta rs while for the p	ctor of Mode B when , as defined in Table r of Mode A and any les in forward bias me polarity at polarity age when doing ositive pairs it should
		Irawn before the start of com			negative	pairs hence F	ason is that the PSE has a ma PD is guaranteed to be suppor	rted in terms of is	solation on the negative
C/ <b>145</b> Darshan, Ya	SC <b>145.3.8.4</b> air	P <b>212</b>	L <b>23</b>	# r02-118	c) in add	tion to (b) the	uaranteed for the positive pair re is no technical need to requ	uire both sides is	olated in the PD since
(for TR1	ext "The TR1, TR and TR2), drive	Comment Status A 2, and TR3 tests consists or n o the 'final voltage' a the 'sou	-		use of T d) The 1 10uA be	/S connected OuA isolation ween 10.1V a	and it doesn't give any technic to a common point. requirement value is correct u and 30V since the source of th eased as voltage increased.	p to 10.1V but ne	eed to be higher than
	be "at the".	Ŭ			SuggestedRe	emedy			
SuggestedR	-				Adopt da	rshan_02_01	18.pdf		
	R1, TR2, and TR	3 tests consists of a voltage e 'initial voltage' to the 'final			Response ACCEP1	IN PRINCIPI	Response Status <b>C</b> LE.		
	,	U U							
To: "The TR		e 'initial voltage' to the 'final Response Status <b>C</b>				inless otherw	SE shall meet all specifications ise noted." as a new paragrap		

Comment ID r02-119

C/ <b>145C</b> SC <b>145C</b> Darshan, Yair	P <b>295</b>	L11	# r02-120	Cl 145 SC Darshan, Yair	145.2.8.6	P <b>175</b>	L <b>54</b>	# r02-122		
Comment Type T	Comment Status D		Annex	Comment Type	T Coi	mment Status A		Inrush		
reduces the current result SuggestedRemedy Add the following text after "The following models and unbalance) while in all sys specified by 145.2.8.1 and cable power dissipation." Proposed Response REJECT.	stem the unbalance as spe ing with lower cable power er line 11 page 295: d calculations are derived a stems the actual resistance d 145.3.8.9 which reduces <i>Response Status</i> <b>Z</b>	ecified by 145.2.8 r dissipation . for 100% balanc e unbalance is g the current and	8.1 and 145.3.8.9, red system (zero jreater than zero as	<ul> <li>"Power up occurs on each pairset between the transition to a power up state on that pairse and the expiration of TInrush. PSEs that have assigned Class 5 to 8 to a single-signature PD shall reach POWER_UP on both pairsets within TInrush max, starting with the first pairset transitioning into the power up state, and where the second pairset transitions to a power up state anytime within this time period."</li> <li>1. The above text doesn't cover single-signature PD class 1-4 operating only over 4-pairs regarding power up requirements. They should have the same requirements as for single signature PD class 5-8.</li> <li>2. The current text in page 175 lines 54 and page 176 lines 1-2 take care of the possibility to flip between 2P and 4P and is good however this text is also true for class 1-4 operatin only over 4-pairs as well.</li> <li>3. If we are working over 2-pairs only, no special requirements are needed for powerup because it is straight forward and explained in page 175 lines 52-53 as for when powerup occurs.</li> </ul>						
This comment was WITH	DRAWN by the commente	er.		SuggestedRemed	dy					
Cl 145 SC 145.2.7 Darshan, Yair Comment Type T Pac_margin calculations Pac_margin value in dars SuggestedRemedy Adopt darshan_01_0118. Response	han_01_0118.pdf.	L36 to be updated. S	# r <u>02-121</u> <i>Pres: Darshan1</i> See updates for	Change from: on that pairse single-signatu with the first p transitions to To: "Power up pairset and th over 4-pairs s first pairset tra to a power up	"Power up occu et and the expirat ure PD shall reac pairset transitioni a power up state p occurs on each e expiration of T shall reach POW ansitioning into the p state anytime w	ion of TInrush. PSEs th POWER_UP on boing into the power up se anytime within this time pairset between the te Inrush. PSEs connect ('ER_UP on both pairs the power up state, and ithin this time period."	that have assigned th pairsets within state, and where ne period." ransition to a powed ed to single-sign ets within TInrusl	TInrush max, starting the second pairset wer up state on that ature PD that operates h max, starting with the		
ACCEPT IN PRINCIPLE.				Response	Res	ponse Status <b>C</b>				
Change 1 25 to 1 5 for all	ass 7 and class 8 in Table	145 15		ACCEPT IN F	PRINCIPLE.					
Change 1.25 to 1.5 for ca		140-10		adopt change	es in yseboodt_0	5_0118.pdf				
				[Editor's note	added after the	close of comment res	olution:			
				the full file pa	th is http://www.i	eee802.org/3/bt/public	;/jan18/yseboodt	_05_0118.pdf]		

C/ <b>1</b> SC Darshan, Yair	C 1.4.418ad	P <b>25</b>	L <b>33</b>	# r02-123	C/ <b>145</b> Darshan, Ya	SC 145.2.6.5 ir	i	P <b>159</b>	L <b>53</b>	# r02-125
and 4-pair p 802.3, Claus	4.418ad Type 4 lower. (See IEEE se 145)." is not a	Comment Status <b>A</b> PSE: A PSE that suppor E accurate. Type 4 is a PS ards compatibility.			Comment Ty	vpe <b>T</b> Reject **as** a vemedy	Comment an invalid". R			Edioria
MPS, and 4- To "1.4.418a	n "1.4.418ad Ty -pair power. (Se ad Type 4 PSE: short MPS, and	pe 4 PSE: A PSE that s e IEEE 802.3, Clause 14 A PSE that supports Cla I 4-pair power. (See IEE esponse Status <b>C</b>	45)." ass 8 power leve	els in addition to lower		nment was WI		the commente	er. mment resolution	
ACCEPT IN	PRINCIPLE.	s we lowered Ptype for			<i>Cl <b>79</b> Darshan, Ya</i>	SC <b>79.3.2.60</b> ir	2.3	P <b>92</b>	L <b>50</b>	# <u>r02-126</u>
addition to lo C/ 145 SC Darshan, Yair	ower PD classes	4 PSE: A PSE that supp s, short MPS, and 4-pair P <b>130</b>		EE 802.3, Clause 145)." # [ <u>r02-124</u>	and 4. Two opt a) bits 0 b) chang	79-6e, last iter ions for solutio 000; It should b ge "0011= class	n: pe class 0 and	s Ext class 0 ne		LLDF and as well by Type 3
addition, it d	ble pd_req_pwr, loesn't add any a lready clear by t	comment Status <b>D</b> the text "If pse_avail_pw additional value he state machine.	vr is less than 4"	PSE SD is no longer correct. In	Option 2	:	-	ored to class 0 iss 0, 3"		
Change fron higher Class Class 6, whi option_class not contain t To: "The var than a PSE whichever is	m "The variable is s than a PSE ca ichever is the hig s_probe is FALS the PD requeste riable indicates t can support, the s the highest Cla	indicates the PD reques in support, the PSE assig ghest Class it can support E, this variable may d Class; do_class_prob he PD requested Class. PSE assigns the PD to tass it can support. do_class	gns the PD to Cl ort. If pse_avail_ e also returns th When a PD req class 3, Class	ass 3, Class 4, or owr is less than 4 and is variable." Juests a higher Class 4, or Class 6,		no requested		-		o not assign Class 0.
Proposed Respo REJECT.	onse Re	esponse Status Z								
This comme	ent was WITHDF	RAWN by the commente	er.							

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 Z/withdrawn SORT ORDER: Comment ID

This comment was withdrawn before the start of comment resolution.

Cl 30 SC 30.12.2.1.18h P49 L54 # r02-127 Darshan, Yair	C/ 145 SC 145.2.8.1 P168 L25 # r02-129 Darshan, Yair
Comment TypeTComment StatusRManagementType 3 and 4 PSE when connected to class 0 PD need to support it as well. Currently, class 0 is ignored in the list. We need to address class 0 and class 3 as the same.Management	Comment Type <b>T</b> Comment Status <b>A</b> Type 3 and 4 PSE when connected to class 0 PD need to support it as well. Table 145-16 items 5, 6 and 7: Class 1-4 need to be Class 0 to 4
SuggestedRemedy	SuggestedRemedy
In page 50 line 2 change from: "class3 Class 3" To: "class3 Class 0, or Class 3"	In Table 145-16 items 5, 6 and 7: Change "Class 1-4" to "Class 0 to 4"
Response Response Status C	Response Response Status C
REJECT.	ACCEPT IN PRINCIPLE.
There is no requested Class 0 for Type 3 PDs and Type 3/4 PSEs do not assign Class 0.         This field is the Extended field only used by Type 3 and 4.         C/ 30       SC 30.12.3.1.18h       P60       L49       # r02-128         Darshan, Yair	Add a note after this paragraph: "NOTE For Type 3 PDs, a requested Class 0 is not defined. Type 1 PDs that did not implement Physical Layer classification requested Class 0, with a power level equivalent to Class 3. PDs that request Class 0 are assigned Class 3 by Type 3 and Type 4 PSEs." Insert the same note in 145.3.6.1, on page 201, line 4.
Comment Type         T         Comment Status         R         Management           Type 3 and 4 PSE when connected to class 0 PD need to support it as well. Currently, class 0 is ignored in the list. We need to address class 0 and class 3 as the same.         Management	C/ <b>145</b> SC <b>145.2.7.2</b> P <b>167</b> L <b>32</b> # r <u>02-130</u> Darshan, Yair
SuggestedRemedy	Comment Type T Comment Status D Autoclass
In page 60 line 52 change from: "class3 Class 3" To: "class3 Class 0, or Class 3"	Type 3 and 4 PSE when connected to class 0 PD need to support it as well. Table 145-15 items 4: class 1-4 need to be Class 0 to 4
Response Response Status C	SuggestedRemedy
REJECT.	In Table 145-15: Change "Class 1-4" to "Class 0 to 4"
There is no requested Class 0 for Type 3 PDs and Type 3/4 PSEs do not assign Class 0. This field is the Extended field only used by Type 3 and 4.	Proposed Response Response Status Z REJECT.
	This comment was WITHDRAWN by the commenter.

This comment was withdrawn before the start of comment resolution.

C/ <b>145</b> SC <b>145.2.8.1</b> Darshan, Yair	P <b>169</b>	L14	# r02-131	C/ 145 SC 14 Darshan, Yair	5.2.5.7	P <b>148</b>	L17	# r02-133
Comment Type T Co	omment Status A			Comment Type	T Com	ment Status R		PSE SD
Type 3 and 4 PSE when con items 11: Class 1-3 need to		eed to support it	as well. Table 145-16	http://www.ieee8	302.org/3/bt/pub	2 in D3.1 COMMEN lic/nov17/yseboodt_		ot resolved fully by df as indicated by the
SuggestedRemedy				remedy for r01-4		to TRUE in INIT PI		IFT SEO-2 the
In Table 145-16 items 11: Change  "Class 1-3" to "Clas	s 0 to 3"			variable det_sta	rt_pri is set to T		is done and the	purpose of this variable
Response Res ACCEPT IN PRINCIPLE.	sponse Status <b>C</b>			between STAR In addition, in al	<pre>「_DETECT and I other CC_DET</pre>	POWER_UP.	let_start_pri is se	et to TRUE in INIT_PRI
Add a note after this paragra "NOTE For Type 3 PDs, a implement Physical Layer cla	requested Class 0 is n			The solution is t START_CXN_C	o move "det_sta HK_DETECT v	art_pri <== TRUE" fr /hich is the correct p le secondary as well	om INIT_PRI to lace for CC_DET	_SEQ=2.
Class 3. PDs that request C				SuggestedRemedy				
Insert the same note in 145.3	3.6.1, on page 201, line	4.		142.	·			CHK_DETECT on page
C/ 145 SC 145.2.8.1	P169	L <b>45</b>	# r02-132	2. Move "det_st page 142.	art_sec <== TR	UE" from INIT_SEC	to START_CXN_	_CHK_DETECT on
Darshan, Yair				Response	Respo	onse Status C		
, , , , , , , , , , , , , , , , , , ,	omment Status A			REJECT.				
Type 3 and 4 PSE when con items 18: Class 1-4 need to				This comment of work.	loes not show a	set of conditions un	der which the sta	ate diagram does not
SuggestedRemedy				work.				
In Table 145-16 items 18 for Change "Class 1-4" to "Clas	2-pair and 4-pair rows: s 0 to 4"							
Response Res	sponse Status <b>C</b>							
ACCEPT IN PRINCIPLE.								
Add a note after this paragra "NOTE For Type 3 PDs, a implement Physical Layer cla Class 3. PDs that request C	requested Class 0 is n assification requested C	lass 0, with a po	wer level equivalent to					
Insert the same note in 145.3	3.6.1, on page 201, line	4.						

Cl 145 SC Darshan, Yair	\$ 145.3.6.2	P <b>203</b>	L <b>46</b>	# r02-134	C/ <b>145</b> Darshan, \		145.2.7	P <b>142</b>	L <b>7</b>	# r02-135
Comment Type	т	Comment Status D		Autoclass	Comment	Туре	т	Comment Status A		Editorial
		ent r01-460 from D3.1 whic			Туро і	n "do_i	initialialize	" in IDLE. Need to be "do_i	nitialize"	
		/bt/public/nov17/yseboodt_ p, a PD that implements Au			Suggested	Remea	ly			
		subject to the requirements			Chang	e from	- "do_initial	lialize" to "do_initialize"		
throughout th	he period bo	unded by".			Response			Response Status <b>C</b>		
of PPort_PD	shall not ex	ne 32) the text says:"For sir ceed PClass_PD for the as ie 39 it says: "PClass_PD a	signed class"	-	ACCE					
145-29 are d	determined p	er the assigned Class"			C/ 145	SC	145.2.7	P <b>142</b>	L14	# r02-136
		e we can see that PSE will the requested class is 8, th			Darshan, Y	<i>r</i> air				
		hrough LLDP and asks for			Comment	Туре	т	Comment Status D		PSE SD
more, up to t description a d) Now PSE ready to sup Looking at th Possible solu To keep it pe and limit the used through SuggestedReme To add the fe	the maximun above in 145 will enter to ply 39W (it k he state mac ution: er the assign value of the h LLDP. edy ollowing text ass is used t	Autoclass through LLDP an n of the assigned class=40 .3.6.2 and 145.3.8.2. overload condition and may mows that he has to supply hine, this issue is not handl ed class when layer 1 Auto Autoclass power to the pse "PD may ask for PAutoclas hrough LLDP." <i>Response Status</i> <b>Z</b>	<i>N</i> (class 5)) acc y shut the port of 34W only). ed. class is used e_allocated_pow	ording to the If since the PSE is not er when Autoclass is	Later, IF (pse alt_pri END The pr confus Propos 1. To c 2. To r IF (pse alt_pri ELSE END.	still in II e_alterm <== ps roblem i sing. sal delete a restore v e_alterm <== ps alt_pri •	DLE state hative != b he_alterna is that to i hative != b he_alterna <== user o	nitialize alt_pri in two location the function do_initialize o had in D3.1: oth) THEN tive	tatement: ons in the same s	state is redundant and
REJECT.	01130	Response Status Z			Suggested					
This comme		IDRAWN by the commente rawn before the start of con		ı.	2. To r IF (pse alt_pri	restore e_altern <== ps	what we h		n page 140 line	17.
					Proposed	Respon	ise	Response Status Z		
					REJE	CT.				
					This c	ommen	t was WIT	THDRAWN by the commen	ter.	

Cl <b>145</b> SC <b>145.2</b> . Darshan, Yair	7 P144	L <b>33</b>	# <u>r02-137</u>	C/ <b>145</b> S Darshan, Yair	SC 145.2.7	P143	L <b>19</b>	# r02-139
In the exit from CLA In the exit from CLA both)" This is not required since pse_allocated SuggestedRemedy Restore to D3.1 all Proposed Response REJECT.	Comment Status <b>D</b> (D3.1) we did some changes to SS_EV2 to MARK_EV2 we add SS_EV2 to MARK_EV_LAST we since the argument that was us _pwr is set to 4 in CLASS_EV2 the changes done for comment <i>Response Status</i> <b>Z</b> WITHDRAWN by the comment	d the variable "*(p ve add the variab sed to justify this and can't be hig r01-174.	<pre>bse_alternative=both)" ble "*(pse_alternative != change can't happen</pre>	Comment Typ There is e We got to check whi Therefore (sig_type : As a resul according valid)) +(s SuggestedRer 1. Change (sig_type : To: (sig_t 2. Change	rror in the ex this place aff ch required b the conditior = dual) *((sig t the conditio y to "(sig_typ ig_type = dua nedy the exit from = dual) *((sig ype = dual) *	Comment Status D t from CXN_CHK_DETECT_E er setting CC_DET_SEQ=2 w oth pairs to be with valid signa (sig_type = dual) *((sig_pri = _pri = valid) * (sig_sec = valid) n from CXN_CHK_DETECT_1 e = invalid) +(sig_type = singl I) *((sig_pri != valid) +(sig_sec CXN_CHK_DETECT_EVAL _pri = valid) +(sig_sec = valid) ((sig_pri = valid) * (sig_sec = valid) ((sig_pri = valid) * (sig_sec = valid)	where we did der ature to continue valid) +(sig_sec ). EVAL to IDLE n e) *((sig_pri != v c != valid))" to SISM_STAR ) valid)) to IDLE from:	tection and connection e with sism=TRUE. c = valid)) need to be need to be updated valid) +(sig_sec !=
<i>Cl</i> <b>145</b> <i>SC</i> <b>145.2</b> . Darshan, Yair	7 P142	L <b>9</b>	# <u>r02-138</u>	dual) *(sig To: "(sig_t	_pri != valid) ype = invalid	itg_type = single) *((sig_pri != *(sig_sec != valid)" ) +(sig_type = single) *((sig_pri g_pri != valid) +(sig_sec != val	ri != valid) +(sig	<i>// ( U= )</i>
(page 144) we have	Comment Status R s set to zero in the IDLE state a the same initialization. The pro which is the first time we need in	per place is to us	se it in	Proposed Res REJECT.	ponse	Response Status Z		
SuggestedRemedy Remove pse_alloca	ted_pwr from IDLE.					drawn before the start of com		٦.
Response REJECT.	Response Status C							
the PSE is in the ID	is set to 0 in idle as there are m LE state, the PSE has released = 0 is "no power has been assig	l all power alloca	tion. The definiton of					

C/ 145 SC 145.2.5.7 P142 L # r02-140 Darshan, Yair	C/ 33         SC 33.4.9.1b         P76         L24         # r02-142           Mcclellan, Brett         Marvell Semiconductor         Marvell Semiconductor         Marvell Semiconductor
Comment Type         T         Comment Status         D         PS           There is a problem that tcc2det_timer is not used as a condition to the states and the fl after SISM_START in CC_DET_SEQ=0 or 3 as required by the definition of this timer. To can cause detection on primary to start after tcc2tdet timer has expried. In fact, we need to ensure that all the inputs coming to START_DET_PRI need to be conditioned by tcc2det_timer not done.         SUggestedRemedy	
Make the following changes: 1. From INIT_PRI to START_DET_PRI: change from "CC_DET_SEQ!=2" to "(CC_DET_SEQ=0)+(CC_DET_SEQ=3)*!tcc2det_timer_done+ (CC_DET_SEQ=1)" 2. Add exit from INIT_PRI to IDLE_: "(CC_DET_SEQ=0)+(CC_DET_SEQ=3)*tcc2det_timer_done	CI 79SC 79.3.2P86L22# r02-143Yseboodt, LennartPhilips LightingComment TypeTComment StatusALLDF
Proposed Response Response Status <b>Z</b> REJECT. This comment was WITHDRAWN by the commenter.	LATE COMMENT OOS Figure 79-3 says that the TLV information string length=29.
This comment was withdrawn before the start of comment resolution.	This is only true when the complete set of fields is sent, and for instance is NEVER true for Type 1/2 PD/PSEs.
Cl 145       SC 145.2.7       P142       L1       # r02-141         Darshan, Yair       Darshan, Yair       Pres: Darshan       Pres: Darshan         Comment Type       T       Comment Status       A       Pres: Darshan         PSE state machine need to be updated per the updated simulation results       Pres: Darshan       Pres: Darshan	Type 1/2 PD/PSEs.         SuggestedRemedy         Change the text in the second field of the TLV header to "TLV information string length"         Add the following text at the bottom of the figure:         "The TLV information string length is:         - basic fields: 7 octets         - basic fields and DLL classification extension: 12 octets         - basic fields, DLL classification extension, and Type 3 and Type 4 extension: 29 octets"         Response       Response Status
Cl 145       SC 145.2.7       P142       L1       # r02-141         Darshan, Yair       Comment Type       T       Comment Status       A       Pres: Dars         PSE state machine need to be updated per the updated simulation results       SuggestedRemedy       Adopt darshan_03_0118.pdf       A	Type 1/2 PD/PSEs.         SuggestedRemedy         Change the text in the second field of the TLV header to "TLV information string length"         Add the following text at the bottom of the figure:         "The TLV information string length is:         - basic fields: 7 octets         - basic fields and DLL classification extension: 12 octets         - basic fields, DLL classification extension, and Type 3 and Type 4 extension: 29 octets"         Response       Response Status         C         ACCEPT.
CI 145       SC 145.2.7       P142       L1       # r02-141         Darshan, Yair       Comment Type       T       Comment Status       A       Pres: Dars         PSE state machine need to be updated per the updated simulation results       SuggestedRemedy       Adopt darshan_03_0118.pdf       Response       Response Status       C         ACCEPT IN PRINCIPLE.       C       A       C       C	Type 1/2 PD/PSEs.         SuggestedRemedy         Change the text in the second field of the TLV header to "TLV information string length"         Add the following text at the bottom of the figure:         "The TLV information string length is:         - basic fields: 7 octets         - basic fields and DLL classification extension: 12 octets         - basic fields, DLL classification extension, and Type 3 and Type 4 extension: 29 octets"         Response       Response Status
Cl 145       SC 145.2.7       P142       L1       # r02-141         Darshan, Yair       Comment Type       T       Comment Status       A       Pres: Dars         PSE state machine need to be updated per the updated simulation results       SuggestedRemedy       Adopt darshan_03_0118.pdf       Response       Response Status       C	Type 1/2 PD/PSEs.         SuggestedRemedy         Change the text in the second field of the TLV header to "TLV information string length"         Add the following text at the bottom of the figure:         "The TLV information string length is:         - basic fields: 7 octets         - basic fields and DLL classification extension: 12 octets         - basic fields, DLL classification extension, and Type 3 and Type 4 extension: 29 octets"         Response       Response Status         Cl 79       SC 79.3.8         P96       L11         L11       # r02-144
Cl 145       SC 145.2.7       P142       L1       # r02-141         Darshan, Yair       Comment Type       T       Comment Status       A       Pres: Dars         PSE state machine need to be updated per the updated simulation results       SuggestedRemedy       Adopt darshan_03_0118.pdf       Response       Response Status       C         ACCEPT IN PRINCIPLE.       Change transition from poweroff to nopower to Vpd < Vmark_th.	Type 1/2 PD/PSEs.         SuggestedRemedy         Change the text in the second field of the TLV header to "TLV information string length"         Add the following text at the bottom of the figure:         "The TLV information string length is:         - basic fields: 7 octets         - basic fields and DLL classification extension: 12 octets         - basic fields, DLL classification extension, and Type 3 and Type 4 extension: 29 octets"         Response       Response Status         C/ 79       SC 79.3.8         P96       L11         Vseboodt, Lennart       Philips Lighting         Comment Type       T         Comment Type       T         Comment Type       T         Comment Status       A         LATE COMMENT The TLV information string length for the Measurements TLV is 22,

CI <b>79</b>	SC 79.3.2.6d	P <b>94</b>	L <b>9</b>	# r02-145
Yseboodt,	Lennart	Philips Li	ighting	
Comment	Туре Т	Comment Status A		LLDP
	COMMENTIn Ta ving Type 1 / Type	able 79-6f, "Power Typ 2 stuff).	e ext", the bit value 1	00 is missing (due to
Suggested	dRemedy			
Chang	ge bit numbering s	uch that it counts up pr	operly.	
Response	<b>)</b>	Response Status C		
ACCE	PT.			
CI 79	SC 79.3.2.6e	P <b>94</b>	L <b>42</b>	# <u>r</u> 02-146
Yseboodt,	Lennart	Philips Li	ighting	
Comment	Туре Е	Comment Status A		LLDP
maxim	num available pow	field "PSE maximum a er value" in line with PS ue is expressed in 1/10	SE allocated power v	alue,
Suggested	dRemedy			
	ge "PSE maximum e the usage in the	available power" to "P text.	SE maximum availal	ole power value" and
		Response Status C		
Response	,			