Cl 0 SC 0 Turner, Michelle	P 0	L 0	# r01-1	Cl 145 SC 145.3.8 Brillhart, Theodore		L 25 pration	# r01-2
Turner, Michelle Comment Type E This draft meets all edit SuggestedRemedy Proposed Response PROPOSED ACCEPT	Comment Status D orial requirements. Response Status W		# [101-1	Brillhart, Theodore Comment Type T The note under Figu It does not indicate w implies that a dual si Vpse+ (mode A) and for measuring signat Vpse+ (Mode A) to V would also meet all t connection would pro- PSE output, and the side of the PSE outp create a reliable con It would appear that constrained to preve not appear to exist in	Fluke Corpor Comment Status X re 145-30 points out that a dury whether that common load is is gnature PD might tie Vpse- (N VPse+ (mode B) independer ure resistors and classification /pse+ (Mode B) together, leav he signature and classification went the PSE from correctly or second would prevent the PSE ut. Since the specification se nection check from the PSE. somewhere in the specification t 'sharing' of current betweer the current draft. Recommer t be in the definition of a dual	ration al signature PD m solated from the p fode A) to Vpse- it. This would me o currents. Altern ing the negative s o requirements. H neasuring current E from measuring ems to allow both n, a dual signatur the two pairsets. d to explicitly add	PD Power hay have a single load. bair-sets or not. This (Mode B), and leaving het all the requirements atively, the PD could tie sides independent. This dowever, the first ts on the low side of the g currents on the high h, there is no way to the PD must be This constraint does this constraint. One
				signatures, and mair Change to: 1.4.186a dual-signat signatures, and mair currents related to du are restricted to that Note: this is one amo	ure PD: A PD that has independation power signatures on each ure PD: A PD that has independation power signatures, class sign pairset. (See IEEE 802.3, C point several likely options for internet ris not wed to this proposition of the second status with the second status wit	h pairset (See IEE ndent detection s h pairset, and who atures, and main ause 145). htroducing this co	EE 802.3, Clause 145). ignatures, class ere outgoing and return tain power signatures nstraint into the

CI 1 SC	1.4.338	P 24	L 41	# r01-3	C/ 30	SC 30.	2.5	P 31	L 47	# r01-4		
Anslow, Peter		Ciena Corpora	ation		Anslow, Peter			Ciena Corpora	ation			
Comment Type	ER	Comment Status D		Editorial	Comment Typ	e E	R	Comment Status D		Editoria		
Comment i-2 was accepted in principle, but the change to the base text of 1.4.338 has not been done correctly. When an amendment changes text that has already been changed by a prior amendment, the base text for the second amendment is the text as amended by the first amendment. This text is therefore shown without underline or strikethrough font. The only text in underline or strikethrough font is for changes being made by this amendment, not for changes already made by IEEE Std 802.3bu-2016.					The editing instruction: "Delete the "oPD managed object class" and "aPDID" rows as well as the "PD Basic Package (mandatory)" column from Table 30-4. Delete the row for "aPSEShortCounter Table 30-4." makes changes to Table 30-4. However, now that other subclauses have been adder 30.9.1.1, new rows are needed in this table.							
Ũ	с <i>г</i> ,					SuggestedRemedy						
00	IggestedRemedy						into th	ne draft and show all of the ch	anges to it.			
Replace the current text of 1.4.338 with: 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 <u> or</u>					Proposed Res PROPOS			Response Status W				
		powering is intended to provi			C/ 30	SC 30.	2.5	P 32	L 7	# r01-5		
		-T <u>, 2.5GBASE-T, 5GBAS th the data it requires and the</u>	,		Anslow, Peter			Ciena Corpora	ation			
used with sin	igle baland	ced twisted-pair (BASE-T1) P	HYs (see IEEE	Std 802.3, Clause 104),	Comment Typ	e E	R	Comment Status D		Editoria		
unified interfa used with ba <u>A DTE P</u>	ace for bot lanced sin ower over	ded to provide a single 100B/ th the data it requires and the gle twisted-pair PHYs is also Ethernet (Clause 33 and Cla ection. Power over Ethernet	power to proces referred to as a use 145) device	ss these data. A PSE PoDL PSE. that provides the	"aLldpXdc	t3Rem t3LocF	Powei Reduce	Xdot3LocPowerPairControlal PairControlable" have been o edOperationPowerValue" has ble 30-7.	changes (to hav			
		ASE-T device with a	E- SuggestedRemedy									
unified interfa Where <u> a</u>	ace for bot and d	th the data it requires and the enote the start and end of un ikethrough font.	power to proces	ss these data.	"aLldpXdc	t3Rem	Power	'aLldpXdot3LocPowerPairCor PairControlable" and the dele adOperationPowerValue" in T	etion of			
Proposed Respo		Response Status W			Proposed Res	ponse		Response Status W				

PROPOSED ACCEPT.

PROPOSED ACCEPT IN PRINCIPLE.

OBE by 60

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

Comment ID r01-5

C/ 30 SC 30.9.1 Anslow, Peter	.1 P 35 Ciena Corpo	L 9 pration	# <u>r01-6</u>	<i>Cl</i> 30 Anslow, F	SC 30.9.1 Peter	.1.9a	P 39 Ciena Corpo	L 46 ration	# <u>r01-7</u>
Also, adding 30.9.1 30.9.1.1.10, which v is also confusing.	Comment Status D ons for subclauses in 30.9.1.1 1.9a and 30.9.1.1.9b, then del vas formerly 30.9.1.1.11 and th	eting 30.9.1.1.10	and then changing	Suggeste Re-ni		for "aPSEO	nent Status D verLoadCounterB" nse Status W	should be 30.9.1	<i>Editorial</i> 1.9b
Insert new subclaus	through 30.9.1.1.9 as follows: e 30.9.1.1.5a and 30.9.1.1.5b e 30.9.1.1.7a and 30.9.1.1.7b	as follows		PRO	POSED ACCE	PT IN PRINC	CIPLE.		
	e 30.9.1.1.8a and 30.9.1.1.8b e 30.9.1.1.8a and 30.9.1.1.8b 9a and 9b]		incorrect subclause	C/ 30 Anslow, F	SC 30.9.1 Peter	.1.5a	Р 37 Ciena Corpo	L 4 ration	# r01-8
follows: Insert new subclaus with: "Change 30.9.1.1.2 Insert new subclaus Change 30.9.1.1.6 Insert new subclaus Change 30.9.1.1.8	e 30.9.1.1.8a and 30.9.1.1.8b	bb as follows:" as follows: as follows:	of 30.9.1.1.10 above) as	DEFI in 30. Same Suggeste Delet Proposed	emicolon on li	ne 4 should i on. That is c 1.1.5b ons on line 4 <i>Respo</i>			Editorial f the BEHAVIOUR micolon. (see example
Insert new subclaus Delete 30.9.1.1.10 a Change 30.9.1.1.11 Insert new subclaus	e 30.9.1.1.9a as follows: and insert a new 30.9.1.1.10 as as follows: e 30.9.1.1.11a and 30.9.1.1.1 aces, making the new subclau <i>Response Status</i> W	1b as follows: "	LoadCounterB	30.9. Suggeste Add " Proposea	Туре Е	Comn of 30.9.1.1.5 ould start wit e start of the Respo.			# <u>r01-9</u> <i>Editorial</i> t at the end of

C/ 30 SC	30.9.1.1.6	P 37	L 54	# r01-10	C/ 30	SC 30	.12.2.1.180	P 47	L 2	# r01-12
Anslow, Peter		Ciena Corpo	ration		Anslow, P	eter		Ciena Corpo	oration	
Comment Type	E Comn	nent Status D		Editorial	Comment	Туре І	ER Comm	nent Status D		Editoria
applied.	is an external cros		hould have chara	cter tag "External"	since	rding to htt this use of (and not be	Boolean is not a	.org/3/WG_tools/e a keyword "the cap	ditorial/requirement ditalization Boolea	ents/words.html#boole an should always be
SuggestedReme	dy				Suggeste	dRemedy				
Apply charac	ter tag "External" to	33.5.1.2.10" and	"33.5.1.2.6".				wing occurrence	es of "boolean" to "	'Boolean":	
Proposed Respo PROPOSED		nse Status W			Page Page	47, line 2 57, lines 3 225, lines 229, line 2	3, 10			
OOS					Proposed	Response	e Respoi	nse Status 🛛 🛛 🛛 🛛 🛛 🗤		
C/ 30 SC	30.12.2.1.18a	P 43	L 14	# r <u>01-11</u>	PROF	POSED AC	CEPT.			
Anslow, Peter		Ciena Corpo	ration		C/ 30	SC 30	.12.3.1.18a	P 53	L 38	# r01-13
Comment Type	ER Comn	nent Status D		Editorial	Anslow, P		.12.3.1.10a	Ciena Corpo		# 101-13
0	instruction, "30.12.				Comment		ER Comm	nent Status D		Editoria
	clauses "30.12.2.1." 3z1" through "30.12	0	12.2.1.18ab15" sr	nould be numbered as				3.1.18z13" should	ha "20 12 2 1 19	
	vw.ieee802.org/3/W		equirements/word	ls.html#numb						hould be numbered as
SuggestedReme	dy				"30.1	2.3.1.18z1'	' through "30.12.			
	instruction, change clauses "30.12.2.1.1				Suggeste	dRemedv				
	12.2.1.18z17".		2.2.1.100010 10	00.12.2.1.1021		-	struction, change	"30.12.3.1.18z13"	" to "30.12.3.1.18	z15" and also re-
Proposed Respo	nse Respo	nse Status W			numb		ses "30.12.3.1.1	8aa" through "30.1		
PROPOSED	ACCEPT.				Brananad	- I Doononoo	Deeree			

Proposed Response Response Status W

PROPOSED ACCEPT.

C/ 33	SC 33.4.9.2.1	P 71	L 42	# r01-14	33.4.9.1b Coupling para 33.4.9.1b.1 Multiple dist
Anslow, F		Ciena Corpo	pration		33.4.9.1b.2 Multiple dist
Comment	<i>,</i>	omment Status D			torial Proposed Response
	diting instructions and			o 33.4.9.3.2 are	PROPOSED ACCEPT.
The b	ed (e.g. a change instru base document has: 9.1.3 Return loss	iction for a new subcia	iuse, etc.).		OOS
33.4.9	9.1.4 Work area or equi		PSE		C/ 33 SC 33.8.2.2
	9.2 Midspan signal path				Anslow, Peter
33.4.9	9.2.1 Alternative A Mids	span PSE signal path	transfer function		Comment Type E
	npting to understand the 9.1.3 Return loss [chan		appears to be to c	reate:	"IEEE Std 802.3-201x" s
	9.2 Cord Midspan PSE		e-numbered from	33.4.9.1.4]	SuggestedRemedy
33.4.9	9.2.1 Maximum link del	ay [new subclause]			Change "IEEE Std 802.
	9.2.2 Maximum link del				Proposed Response
	9.3 Coupling parameter9.3.1 Multiple disturber				PROPOSED ACCEPT.
subcl	ause]			, -	
	9.3.2 Multiple disturber	power sum alien far-e	nd crosstalk (PSA	FEXT) loss [new	C/ 79 SC 79.3.2.4
subcl	ausej 9.4 Midspan signal path	requirements [re-nun	nharad subclausa	1	Anslow, Peter
33.4.9	9.4.1 Alternative A Mids	span PSE signal path	transfer function [re-numbered subcla	use] Comment Type ER
	ming that this is correct	, then a scheme in line	e with usual 802.3	re-numbering rules	The editing instruction of unchanged) should not
would	i be: 9.1.3 Return loss [chan	and subclause]			SuggestedRemedy
	9.1a Cord Midspan PSE	J 1	re-numbered from	n 33.4.9.1.4]	delete the text in 79.3.2
33.4.9	9.1a.1 Maximum link de	elay [new subclause]			
	9.1a.2 Maximum link de				Proposed Response
	9.1b Coupling parameter 9.1b.1 Multiple disturber				PROPOSED ACCEPT.
subcl	ause]			, -	C/ 79 SC 79.3.2.5
	9.1b.2 Multiple disturbe	r power sum alien far-	end crosstalk (PS	AFEXT) loss [new	Anslow, Peter
subcl	ausej 9.2 Midspan signal path	requirements (unalte	red subclause]		
33.4.9	9.2.1 Alternative A Mids			unaltered subclause	[] Comment Type E [] "33.6.3.3" should be a c
Suggeste	dRemedy				SuggestedRemedy
	age 71, line 21, change				Make "33.6.3.3" a cross
	nge the title and text of age 71, line 42, change			as follows:"	
"Inse On pa	rt 33.4.9.1a.1, 33.4.9.1 age 72, line 18, remove umber the headings to:	a.2, and 33.4.9.1b (ind	cluding its subclau	uses) as follows:"	Proposed Response PROPOSED ACCEPT.
	9.1a Cord Midspan PSE	=			
	9.1a.1 Maximum link de				
33.4.9	9.1a.2 Maximum link de	elay skew			
	/toobnical required EE	Vaditarial required CE) apparel required	T/taabaiaal C/adita	

rameters between link segments sturber power sum alien near-end crosstalk (PSANEXT) loss sturber power sum alien far-end crosstalk (PSAFEXT) loss

Response Status W

CI 33 S	C 33.8.2.2	P 7	4	L 8	# r01-15
Anslow, Peter		Ciena	Corpo	ration	
Comment Type "IEEE Std 8		Comment Status should be "IEEE Std	-	ot-201x"	Editorial
SuggestedRem Change "IE	2	3-201x" to "IEEE Ste	d 802.3	bt-201x"	
Proposed Resp PROPOSE	onse D ACCEPT.	Response Status	w		
Cl 79 So Anslow, Peter	C 79.3.2.4	P 8 Ciena	3 Corpo	L 3 ration	# r01-16
Comment Type	ER	Comment Status	•		Editorial
unchanged SuggestedRem delete the t Proposed Resp) should not <i>edy</i> ext in 79.3.2			o the text of 79.3.2	.4 (WHICH IS
CI 79 S	C 79.3.2.5	P8	3	L 50	# r01-17
Anslow, Peter		Ciena	Corpo	ration	
Comment Type "33.6.3.3" s		Comment Status ross-reference here	-	79.3.2.6	Editorial
SuggestedRem Make "33.6	,	-reference here and	in 79.3	3.2.6	
Proposed Resp PROPOSE	onse D ACCEPT.	Response Status	w		

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

C/ 79 SC 79.3 Anslow, Peter		⊃ 83 ena Corporati	L 52 on	# r01-18	CI 79 SC Anslow, Peter	79.3.2.6c	P 85 Ciena Corpor	L 45 ration	# r01-21
Comment Type E The editing instruction covered by the editing	Comment Statu ction: "Delete Equation liting instruction: "Chang ng instruction: "Delete E	<i>us</i> D 79-1" is not r ge 79.3.2.5 a	needed as the o s follows:".		Comment Type The table re SuggestedReme Change the	edy table to be 1	Comment Status D Table 79-6c in 79.3.2.6c is Table 79-6e and renumber t	the second Table	s currently shown as
Delete both editin	g instructions.				Table 79-6d Proposed Respo	Ũ	ble 79-6g to be Table 79-6f Response Status W	through Table 79-	·6i.
Proposed Response PROPOSED ACC	Response Statu CEPT.	is W			PROPOSEI				
OOS					Cl 79 SC Anslow, Peter	79.3.8.1	P 92 Ciena Corpor	L 1 ration	# r01-22
Cl 79 SC 79.3 Anslow, Peter	-	⊃ 84 ena Corporati	L 14 on	# r01-19	<i>Comment Type</i> Table 79-7b	E is missing t	Comment Status D he table continuation variab	le	Editorial
The draft has: "(se end of underline fe "33.3.7.2" has dis not exist. SuggestedRemedy	appeared and 33.3.8.2 i	i.3.8.2)"	where <u> and</u>	are the start and		e Continuatio onse	nd of table title on first pag n" variable. This will add th <i>Response Status</i> W		
Proposed Response PROPOSED ACC	" to "33.3.7.2" without th <i>Response Statu</i> CEPT.		ont.		C/ 79 SC Anslow, Peter	79.3.8.2	P 92 Ciena Corpor	L 40 ration	# r01-23
					Comment Type	Е	Comment Status D		Editoria
OOS					The table in	79.3.8.2 is 1	able 79-7d, but it should be	e Table 79-7c	Eunona
OOS C/ 79 SC 79.3 Anslow, Peter		₽ 85 ena Corporati	L 52 on	# <u>r01-20</u>	The table in SuggestedReme Change the	edy		e Table 79-7c	Luitona
Cl 79 SC 79.3 Anslow, Peter Comment Type E This says "the "PS power value for A		ena Corporati us D le for Alterna ecified in Tab	on tive A field" and	<i>Editorial</i> d "PSE allocated	SuggestedReme	edy table to be T onse		e Table 79-7c	Luiona
Cl 79 SC 79.3 Anslow, Peter Comment Type E This says "the "PS power value for A referenced fields a SuggestedRemedy	Cie Comment Statu SE allocated power valu Iternative B field" as spe are in Table 79-6c and T	ena Corporati us D le for Alterna ecified in Tab Table 79-6d.	on tive A field" and le 79-6a and T	<i>Editorial</i> d "PSE allocated able 79-6b." but the	SuggestedRema Change the Proposed Respo PROPOSEI	edy table to be T onse	able 79-6c	e Table 79-7c	Lunona
Cl 79 SC 79.3 Anslow, Peter Comment Type E This says "the "PS power value for A referenced fields a SuggestedRemedy	Cie <i>Comment Statu</i> SE allocated power valu Iternative B field" as spe	ena Corporati us D le for Alterna ecified in Tab Table 79-6d.	on tive A field" and le 79-6a and T	<i>Editorial</i> d "PSE allocated able 79-6b." but the	SuggestedRema Change the Proposed Respo PROPOSEI	edy table to be T onse	able 79-6c	e Table 79-7c	Luiona

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

C/ 79 SC 79.5.3 Anslow, Peter	P 97 Ciena Corpor	L 7 ation	# r01-24	C/ 145 SC 145.1 Anslow, Peter	P 103 Ciena Corpora	L 22	# r01-27
Comment Type E The editing instructior where the new rows a SuggestedRemedy	Comment Status D n: "Insert new rows into the Ta re to be placed. w rows at the end of the Table Response Status W	ble in 79.5.3 as	,	Comment Type E "Clause 14", "Clause 4 SuggestedRemedy	Comment Status D 10", "Clause 55", and "Clause eferences (and remove the cha Response Status W	126" should all b	
C/ 79 SC 79.5.8 Anslow, Peter	P 98 Ciena Corpor	L 23 ation	# r01-25	C/ 145 SC 145.2.8. Anslow, Peter	Ciena Corpora	L 4 ation	# <u>r01-28</u>
Comment Type E	Comment Status D /T6, "Table 79-4" should be ci		Editorial	Comment Type E There are a number o SuggestedRemedy	Comment Status D	be cross-referen	Editorial ces.
Proposed Response PROPOSED ACCEP OOS					line 4 ne 23 76, line 35 44, line 7 (shouldn't this be Ta 44, line 8 (shouldn't this be Ta age 270, line 8		
C/ 79 SC 79.5.8 Anslow, Peter	P 99 Ciena Corpor	L 38 ation	# r01-26	Proposed Response PROPOSED ACCEP	Response Status W		
Comment Type E In item PVT26, "50 K- SuggestedRemedy	Comment Status D <omega>" should have a lowe</omega>	r case "K"	Editorial	C/ 145 SC 145.5.4 Anslow, Peter	P 244 Ciena Corpora	L 24 ation	# <u>r01-29</u>
Change "K" to "k" Proposed Response PROPOSED ACCEP OOS	Response Status W T.			Same issue with footn See comment #147 fr removal of "NOTE" a	om Michelle Turner, Managing	Editor, IEEE-SA	Editorial
				SuggestedRemedy	the footnotes to Tables 145-4 Response Status W		-43.

C/ 145 SC 145	P 151	L 10	# r01-30	C/ 145 S	C 145.1		P 103	L 19	# r01-32
Anslow, Peter	Ciena Corpora	ation		Jones, Chad			Cisco Syster	ns, Inc.	
Comment Type TR	Comment Status X		Editorial	Comment Type	E	Comment S	tatus D		Editori
"We will work with e There is a distinctio cell blank. Eg. For p indicate there is lac would convey an ind appropriate."	satisfied comment i-1 against D3 ditorial staff to try to clarify the s in between an em-dash, which in parameters that convey a range, k of data, rather that the minimur correct message. Em-dashes ha of the style manual is different fro	tyle guide. Here dicates 'a lack o having a blank m value is open ve been put in a	of data', and leaving a 'Min' cell, does NOT -ended. An em-dash all cells where it is	the cabling This seem unintroduc SuggestedRen Add this se	portion of s like a goo ed a few pa nedy entence to	the system." od spot to introdu ages later. the end of the 2n	ce the term M d paragraph	Jidspan which jus in 145.2:	ead, be located within st pops up span PSEs, or simply
used in recent ame	ndments to IEEE Std 802.3. The	ere is nothing di	fferent about Clause	Midspans.					
145 that means that in other recent ame	t max or min cells without a value	e should be sho	wn differently to those	Proposed Res		Response St			
SuggestedRemedy				PROPOSE	D ACCEP	T IN PRINCIPLE			
Make sure all tables blank min or max co	have an entry of em-dash or po olumns in accordance with all oth 145-7, 145-8, 145-9, 145-10, 14	ner recent amer	dments to IEEE 802.3.	other com	ments) in th	ne 2nd paragraph	in 145.2:		nce may be moved by span PSEs, or simply
Proposed Response	Response Status W			C/ 145 S	C 145.2.4		P115	L3	# r01-33
TFTD				Jones, Chad			Cisco Syster	ns, Inc.	
l need a response f	rom the Editor or Chair			Comment Type	E	Comment S	tatus D		Editori
C/ 1 SC 1.4 Rannow, R K	P 4 IEEE/SELF	L 34	# r01-31	"A PSE de connectior missing a	is named p		one or both o	of the two valid fo	ur-conductor
Comment Type T	Comment Status D		Editorial	SuggestedRen	nedy				
1.4.313a pairset: Ei	ther of the two valid 4-conductor ted in IEEE 802.3, 145.2.4. The I		Iternative A or			evice may providents, named pairset		one or both of the	two valid four-
connections are refe	erred to as Mode A and Mode B, ment. Is this eight (8) or four (4)	respectively, a		Proposed Resp PROPOSE	oonse	Response St			
SuggestedRemedy				110103		1.			
"1.4.313a pairset: v IEEE 802.3, 145.2.4	alid 4-conductor connections, Alt 4 "	ternative A or A	ternative B, as listed in						
Proposed Response	Response Status W								
	ст.								
PROPOSED REJE									
	v refers to a 4-wire connection								
	y refers to a 4-wire connection.								
	y refers to a 4-wire connection.								

C/ 145 SC 145.2.5.3	3 <i>P</i> 118	L1	# r01-34	C/ 145	SC 145.3.8.2	P 201	L 26	# r01-37
Jones, Chad	Cisco System	ns, Inc.		Jones, Cha	d	Cisco Syste	ems, Inc.	
Comment Type ER	Comment Status D		Editorial	Comment 7	ype E	Comment Status D		Editoira
	ays parallel and it should be s PD, parallel detection means		oth pairsets is done in	"The m PDMax	PowerValue in	e power, PClass_PD or PC 145.5.3.3.3, including any p econd sliding window."		
•• •	al-signature PD, staggered de	etection means	that detection both	Suggested	Remedy			
pairsets is done in diff				change				bla 445 00 ar
Proposed Response PROPOSED ACCEPT	Response Status W			PDMax	PowerValue in	e power, PClass_PD or PC 145.5.3.3.3, including any p ond sliding window."		
OBE by 141				Proposed F PROP	Response DSED ACCEPT	Response Status W		
C/ 145 SC 145.2.5.4 Jones, Chad	4 P 120 Cisco System	L 7	# <u>r01-35</u>	C/ 145	SC 145.4.9.4	P 221	L 33	# r01-38
Comment Type ER	Comment Status D	15, 110.	Editorial	Jones, Cha		Cisco Syste		# [01-30
cut and paste error, pr error_condition_pri			Luitonar		tence: "Midspa	Comment Status D n PSEs intended for operati		
SuggestedRemedy Changed to: error_cor	ndition_sec			parame		and 145.4.9.2) are additiona g signals between ports rela		
Proposed Response PROPOSED ACCEPT	Response Status W			Suggested List the	-			
OBE by 149				Proposed F	Response	Response Status W		
C/ 145 SC 145.3.2	P176	L 35	# r01-36	PROP	DSED ACCEPT	IN PRINCIPLE.		
Jones, Chad	Cisco System		# 101-30	Delete	"is limited" on li	ne page 221, line 37.		
Comment Type ER	Comment Status D		Editorial	Change	e sentence to:			
	ble: "PDs shall be capable of a valid 4-pair configuration as c			"Midsp 145.4.9	an PSEs intend .1 and 145.4.9.	ed for operation with 2.5G/5 2) are additionally required	to meet the follow	ing specifications for
SuggestedRemedy				PSANE segme		EXT for coupling signals be	tween ports relati	ng to different link
	be capable of accepting pow uration as defined in Table 14		2-pair configuration and	oogino				
Proposed Response	Response Status W							
PROPOSED ACCEPT	IN PRINCIPLE.							
OBE by 221								

C/ 145C SC 145C.1 Jones, Chad	P 287 Cisco Systems	L 28 5. Inc.	# r01-39	C/ 145C SC 145C.1 Jones, Chad	P 290 Cisco Systems	L 1 s. Inc.	# r01-41
Comment Type ER PI=25W. Should be 25. SuggestedRemedy	Comment Status D	,	Annex	Comment Type TR Table 145C-1, column 3. A with only two decimal p	Comment Status D Several entries are identica laces. This could lead to rea	l because this c ader confusion	as the values in the 4th
change to 25.5W				с, ,	lifferent but are caluclated u	sing the value i	n column 3.
Proposed Response PROPOSED ACCEPT.	Response Status W			SuggestedRemedy change heading to Icond 347 352	(mA) and change the value	s in the column	to:
C/ 145C SC 145C.1 Jones, Chad	P 288 Cisco Systems	L 8 s, Inc.	# <u>r01-40</u>	358 363 369			
Comment Type ER Pl=25W. Should be 25.	Comment Status D 5W		Annex	375 382 389			
SuggestedRemedy change to 25.5W				397 406 416			
Proposed Response PROPOSED ACCEPT.	Response Status W			427 433			
				Proposed Response PROPOSED ACCEPT.	Response Status W		
				C/ 145C SC 145C.1 Jones, Chad	P 287 Cisco Systems	L 1 s, Inc.	# r01-42
				Comment Type E *** Comment submitted w	<i>Comment Status</i> X vith the file 94817600003-Ar	nnex_145C_ma	<i>Pres: Jones1</i> rkup.docx attached ***
				section is new and contai	ins many editorial errors.		
				SuggestedRemedy see the attached Annex_ adoption.	145C_markup.docx for edite	orial corrections	, submitted for
				Proposed Response TFTD	Response Status W		
				WFP			
				There are some mistakes	s that need to be cleaned up	in the markup	document.

C/ 25 SC 25.4.5 P 29 L 12 # r01-43 RAN, ADEE Intel Corporation Intel Corporation	C/ 79 SC 79.3.2 P 80 L 51 # [r01-46] RAN, ADEE Intel Corporation Intel Corporation Intel Corporation Intel Corporation
Comment Type E Comment Status D Editorial The words "and Clause 145" are new. SuggestedRemedy Feasible Status SuggestedRemedy Apply underline format. Feasible Status Feasible Status Feasible Status Feasible Status	Comment Type T Comment Status D LLDF LLDPDU is a field in the LLDP frame (see 79.1.1.4). LLDPDU does not have extension fields; it is the Power Via MDI TLV that may include them. SuggestedRemedy
Proposed Response Response Status W PROPOSED ACCEPT.	Change "in transmitted LLDPDU's" to "in the transmitted Power Via MDI TLV". <i>Proposed Response Response Status</i> TFTD
C/ 30 SC 30.9.1.1.5b P 37 L 28 # r01-44 RAN, ADEE Intel Corporation	is this correct?
Comment Type E Comment Status D The last paragraph seems to be a NOTE as in 30.9.1.1.51.	CI 79 SC 79.3.2.2 P 82 L 9 # [r01-47] RAN, ADEE Intel Corporation Intel Corporation Intel Corporation
SuggestedRemedy Change to NOTE paragraph format or insert "NOTE" at the beginning of this paragraph.	Comment Type E Comment Status D Editoria Number disagreement: "A Type 3 or Type 4 PSEs that is" E
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	SuggestedRemedy Change "PSEs" to "PSE".
OBE by 9	Proposed Response Response Status W PROPOSED ACCEPT.
CI 33 SC 33.4.9.1 P 69 L 31 # r01-45 RAN, ADEE Intel Corporation Intel Corporation	OOS
Comment TypeEComment StatusDEditorialPer the style manual "In general text, isolated numbers less than 10 should be spelled out".	C/ 79 SC 79.3.2.2 P 82 L 11 # [r01-48] RAN, ADEE Intel Corporation Intel Corporation Intel Corporation Intel Corporation
SuggestedRemedy Change "5" to "five".	Comment TypeEComment StatusDEditoriaIt isn't clear what "can indicate" means here. (Style manual: "can equals is able to")Editoria
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	SuggestedRemedy Change "can indicate" to "indicates".
OOS	Proposed Response Response Status W
The comment should refer to line 19.	PROPOSED ACCEPT.

C/ 79 SC 79.3.2.60 RAN, ADEE	c.1 P87 Intel Corporat	L 34 ion	# r01-49	C/ 145 SC 145.2.8 RAN, ADEE	5 P166 Intel Corporati	L 16 ion	# <u>r01-51</u>
Comment Type E Inconsistent quotes (h quotes.	Comment Status D ere double, elsewhere single)	, and "field" sho	uld not be within the	Comment Type E Per the style manual,	Comment Status D the use of the word will is depr	recated.	Editorial
·	The 'PSE allocated power va	alue' field		Also in 145.3.8.10.			
Also in 79.3.2.6c.2 and SuggestedRemedy	d perhaps other places.			current may not equa		current does not	equally divide" or "the
5 1	to single, and move the word 2.6c.1 and 79.3.2.6c.2.	d "field" outside	of the quotes, in	Proposed Response PROPOSED ACCEP	Response Status W		
Fix similar inconsisten	cies across this clause.			C/ 145 SC 145.3.2	P176	L 41	# r01-52
Proposed Response	Response Status W			RAN, ADEE	Intel Corporat	ion	
PROPOSED ACCEPT	IN PRINCIPLE.			Comment Type G	Comment Status D		Editorial
Comment should refer	to page 85, line 49.			The NOTE seems to (normatively).	repeat (informatively) what the	clause text abo	ve it is stating
C/ 145 SC 145.2.4	P115	L 6	# r01-50	Saying that somethin	g is not allowed does not belon	ng in an informat	ive note.
RAN, ADEE	Intel Corporat	ion		SuggestedRemedy			
Comment Type E "Alternatives A and Alt	Comment Status D ernative B"		Editorial	Delete the note.			
SuggestedRemedy				If it isn't clear that bo in the preceding para	h Mode A and Mode B need to graph.	be supported, a	add a "shall" statement
Change to "Alternative	A and Alternative B".			Proposed Response	Response Status W		
Proposed Response PROPOSED ACCEPT	Response Status W			PROPOSED ACCEP	Т.		
OBE by 137				TFTD			
-				Now that we refer to supported? Do we st	Γable 145-20, is there any conf ill need these notes?	usion about what	at needs to be

Cl 1 SC	1.4.417	P 25	L 17	# r01-54	C/ 1	SC 1.4.418	lac	P 25	L 35	# r01-55
Agnes, Andrea		STMicroelect	ronics		Agnes, Ai	ndrea		STMicroelec	tronics	
Comment Type	G	Comment Status D		Definitions	Comment	t Type G	Comment	Status D		Definitions
classification, classification Classification	2 PD: A F , understat requests (, and supp	PD that provides a Class 4 si nds 2-Event classification, ar Class 4 during Physical Laye ports Data Link Layer E 802.3, Clause 33).	nd is capable of	Data Link Layer	The c 1.4.4 class	ification, implen	nents Multiple-É	vent classifica	or Class 8 during tion, is capable of imultaneously. (So	
uses a Multip	le-Event C	Classification, but it is not def	ined in Clause 3	33.	doesi	n't include dual	signature PDs b	ecause Class	5 is requested	
SuggestedRemed	dy			SuggestedRemedy						
Use the 2-Events became:	ent Classi	fication in the defintion as ca	lled in Clause 33	3. Then the definition	Chan	ge definition to:				
classification, classification Classification	, understa requests (, and supp	PD that provides a Class 4 si nds 2-Event classification, ar Class 4 during Physical Laye ports Data Link Layer	nd is capable of	Data Link Layer	signa class	ture PD that red ification, implen ification, and ac	quests Class 5 c nents Multiple-E	on at least one vent classifica	Mode during Phy tion, is capable of	
	•	802.3, Clause 33).			Proposea	l Response	Response	Status W		
Proposed Respor		Response Status W			PRO	POSED ACCEF	PT IN PRINCIPL	E.		
		IN PRINCIPLE.			OOS					
Change "Muli	itple-Event	t" to "2"			OBE	by 288				

C/ 1	SC 1.4.418aa	n P 25	L 28	# r01-56	C/ 145 S	C 145.2.5.4	P118	L 42	# r01-58
Agnes, A	Indrea	STMicroelectr	onics		Agnes, Andrea		STMicroelectr	onics	
Commen	nt Type G	Comment Status D		Definitions	Comment Type	e E	Comment Status X		Altpw
		if Comment TYPE4 is accept	oted)		alt_pwrd_s	ec has value	TRUE also when power is a	pplied (as alt_p	wrd_pri)
	definition:	A PD that requests Class 1 to	Class 6 during	Physical Laver	SuggestedRem	nedy			
	sification, impleme			T Hysical Layer	Change the	e definition o	f TRUE:		
		ation, and accepts power on	both Modes sim	ultaneously. (See IEEE			stastad alassifiad and will a		- Casaadam.
802.3 Claur	3, se 145).						etected, classified, and will po ing Secondary Alternative.	ower a PD on th	e Secondary
	edRemedy				Proposed Resp		Response Status W		
00	nge definition to:				TFTD				
Onai	ige definition to.								
		A single-signature PD that re			OOS				
		ests Class 1 to Class 4 on bo nts Multiple-Event classificati			waiting on	142			
		EEE 802.3, Clause 145).			5				
Proposed	d Response	Response Status W							
PRO	POSED ACCEPT	IN PRINCIPLE.							
005	5								
OBE	by 288								
C/ 145	SC 145.3.1	P176	L 23	# r01-57					
Agnes, A	ndrea	STMicroelectr	onics						
Commen	t Type E	Comment Status D		Editorial					
The i	information that a	dual-signature PD is defined	as Type4 althou	igt just one Mode					
reque	ests Class5 is mis	sing.							
Suggeste	edRemedy								
Add	NOTE 3 after the t	able 145-19:							
NOT	E 3 - Type 4 dual-	signature PDs request Class	5 on at least on	e pairset					
Proposed	d Response	Response Status W							
	, POSED ACCEPT.								
009									
()()									

OOS

Cl 1	SC 1.4.338	P 24	L 40	# r01-60	C/ 25		25.4.5	P 29	L 12	# r01-61	
Ysebood	dt, Lennart	Philips Lightin	ng		Yseboodt,	Lennar	t	Philips Lightin	g		
Commer	nt Type ER	Comment Status D		Editorial	Comment	Туре	TR	Comment Status D		F	PMD
The To b Ther Give Suggest 1. Cl 2016	term "DTE powerir be consistent, we ca re also seems to be an the extensive ch <i>redRemedy</i> hange the editing ir 6) as follows:" Replace 1.4.338 (in	ion of PSE as modified by 80 ng" is still used here, which w all it "Power over Data Lines" e a repeat of a sentence in th anges, we should just replace Instruction from "Change 1.4. corporating the changes made	re now refer to as for Clause 104. te definition. e the definition c 338 (as modified	ompletely. I by IEEE Std 802.3bu-	3, or T the Op require The re We re be stra It seer require	Type 4 F pen Circ ements eference ally sho ange that ms this	PD deliver cuit Induct of 25.4.5 e to 13.0 V ould be re at a data whole con o Type 1.	W is incorrect as the equivaler ferring to Class here. But do requirement depends on the a nstruction with "more than 13.	3.0 W average p 1.7 of TP- PMD nt number on th o we mean assig assigned Class.	oower shall meet eith), or meet the e PSE side is 15.4W gned Class ? It would	her
2 N	ew text:				Suggested	dRemed	dy				
"1.4. powe twist IEEE singl	.338 Power Sourcir er to a single link s ted-pair PHYs. Wh E Std 802.3, Clause le 10BASE-T, 100E	ng Equipment (PSE): A DTE ection. PSEs are defined for en used with 2 or 4 pair balar e 33 and Clause 145, Power BASE-TX, 1000BASE-T, 2.56	use with two diff nced twisted-pair over Ethernet is GBASE-T, 5GBA	erent types of balanced r (BASE-T) PHYs, see intended to provide a .SE-T, or 10GBASE-T	"A 100 more t require	DBASE- than 13 ement i	TX transr W avera n 9.1.7 of	ence to read: nitter in a Type 2 Endpoint PS ge power shall meet either the TP- PMD, or meet the require	e Open Circuit Ir	nductance (OCL)	ing
data Clau 1000	i. When used with s use 104), Power ov 0BASE-T1 device v	terface for both the data it re- single balanced twisted-pair (er Data Lines is intended to p vith a unified interface for both	(BASE-T1) PHYs provide a single th the data it req	s (see IEEE Std 802.3, 100BASE-T1 or uires and the power to	"A 100 shall n	neet eit	TX transr her the O	nitter in a Type 3 or Type 4 E pen Circuit Inductance (OCL) of 25.4.5.1."			
	ess these data. A l	PSE used with balanced sing	gle twisted-pair P	HYs is also referred to	Proposed	Respor	nse	Response Status W			
	d Response	Paananaa Statua IN			PROP	OSED	ACCEPT	-			

Proposed Response Response Status W

PROPOSED ACCEPT.

OOS

IEEE P802.3bt D3.1 4-Pair PoE	1st Sponsor rec	irculation ballot comments
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C/ 30 SC 30.9.1.1.5 Yseboodt, Lennart	P 36 Philips Lighting	L 31	# r01-62	C/ 30 SC Yseboodt, Lenna	30.9.1.1. art	5a	P 36 Philips Lightii	L 41 ng	# r01-63
Comment Type E	Comment Status D		Editorial	Comment Type	т	Comment	Status D		Management
error_condition = true."	State diagram is in the state I state diagram boolean variat			state POWE is in the stat	ration "deli R_ON_PR e IDLE_PF	veringPowerA RI. The enume RI due to the v	ration "faultAlt/ ariable error_c	A" indicates that ondition_pri = tru	te diagram is in the the PSE State diagram le. The enumeration than those listed
Change true with TRUE				Hard-links A	Iternative A	A to the Prima	ry state diagrai	n. Only has a 50	% chance of being
Proposed Response	Response Status W			right.					
PROPOSED ACCEPT I	N PRINCIPLE.			SuggestedReme	edy				
OOS OBE by 368				state POWE enumeration alt_pri='a', o (if alt_pri='a'	ration "deli R_ON_PR 1 "faultAltA" 1 the state) or error_c	R if alt_pri='a', " indicates tha IDLE_SEC if a condition_sec	or the state P0 t the PSE State alt_pri='b' due t = TRUE (if alt_	OWER_ON_SEC e diagram is in th to the variable er pri='b'). The enu	te diagram is in the c if alt_pri='b'. The the state IDLE_PRI if ror_condition_pri = true meration than those listed
				Proposed Respo	onse	Response S	Status W		
				PROPOSED	O ACCEPT	IN PRINCIPL	E.		
				state POWE enumeration alt_pri='a', o TRUE (if alt_	ration "deli R_ON_PR n "faultAltA" r the state _pri='a') or	R if alt_pri='a', " indicates tha IDLE_SEC if a error_conditio	or the state P0 t the PSE State alt_pri='b' due t n_sec = TRUE	OWER_ON_SEC e diagram is in th to the variable er (if alt_pri='b'). T	te diagram is in the c if alt_pri='b'. The ne state IDLE_PRI if ror_condition_pri = he enumeration than those listed
				Also, make s	similar cha	nge for the No	te directly belo	ow.	

C/ 30	SC 30.9.1.1.5		L 10	# r01-64	C/ 30 Vseboodt	SC 30.9.1	.1.7	P 38 Philips Lightin	L 9	# r01-65
"The o state diagra enum	<i>Type</i> T PowerDetectionS enumeration "deliv POWER_ON_SE am is in the state I	Philips Lightin Comment Status D tatusB: veringPowerAltB" indicates t C. The enumeration "faultAlt DLE_SEC due to the variab gAltB" indicates the PSE Sta	hat the PSE Stat tB" indicates that le error_condition	t the PSE State n_sec = true. The	and Figure The re <i>Suggestee</i>	<i>Type</i> E counter is incr e 145-13) ente eference Figur	emented when the state s	Philips Lightin nent Status D en the Type 1 and ⁻ SIGNATURE_INVA es not belong with a	Type 2 PSE stat	<i>Editorial</i> te diagram (Figure 33-9 E.
right. Suggester Repla "The o	<i>dRemedy</i> ace text by: enumeration "deliv	to the Secondary state diag veringPowerAltB" indicates t C if alt_pri='a', or the state F	hat the PSE Stat	te diagram is in the		Response POSED ACCE SC 30.9.1 Lennart	PT.	nse Status W P 38 Philips Lightin	L 15 ng	# <u>r01-66</u>
enum alt_pr (if alt_	eration "faultAltB" 'i='a', or the state I _pri='a') or error_c chingAltB" indicate	indicates that the PSE Stat DLE_PRI if alt_pri='b' due to ondition_pri = TRUE (if alt_p es the PSE State diagram is	e diagram is in th o the variable err ori='b'). The enun	ne state IDLE_SEC if or_condition_sec = true neration	"This	InvalidSignatu counter is incr	reCounterA: emented wh			Management te diagram (Figure 145-
•	Response POSED ACCEPT	Response Status WIIN PRINCIPLE.			Also,	we current do	not have a ir		inter for single-s	ndary state diagram. ignature. Propose to ature.
Repla	ace text by:				Suggestee	dRemedy				

"The enumeration "deliveringPowerAltB" indicates that the PSE State diagram is in the state POWER_ON_SEC if alt_pri='a', or the state POWER_ON_PRI if alt_pri='b'. The enumeration "faultAltB" indicates that the PSE State diagram is in the state IDLE_SEC if alt_pri='a', or the state IDLE_PRI if alt_pri='b' due to the variable error_condition_sec = TRUE (if alt_pri='a') or error_condition_pri = TRUE (if alt_pri='b'). The enumeration "searchingAltB" indicates the PSE State diagram is in a state other than those listed above.;"

Also, make similar change to Note directly below (word Note to be added to line 27 by comment 9).

Change to:

"This counter is incremented when the do_detect_pri or do_detect_sec function in Figure 145-13, Figure 145-15, and Figure 145-16, whichever corresponds to Alternative A depending on the value of alt_pri, returns 'invalid'.;"

Proposed Response Response Status W

PROPOSED ACCEPT.

 aPSEInvalidSignatureCounterB: "This counter is incremented when the Type 3 and Type 4 PSE state diagram (Figure 145-16) enters the state IDLE_SEC due to sig_sec [?] valid.;" Hard-links Alternative B to the Primary or Alternative B to the Secondary state diagram. Also, we current do not have a invalid signature counter for single-signature. Propose to repurpose aPSEInvalidSignatureCounterB to also serve single-signature. SuggestedRemedy Change to: "This counter is incremented when the do_detect_pri or do_detect_sec function in Figure 145-15, and Figure 145-16, whichever corresponds to Alternative B depending on the value of alt_pri, returns "invalid";" PROPOSED ACCEPT. C/ 30 SC 30.9.1.1.8a P38 L52 # [01-68] 	C/ 30 SC 30.9.1.1.7b Yseboodt, Lennart	P 38 Philips Lightin	L 27 g	# r01-67	C/ 30 Yseboodt	SC 30.9.1.1 , Lennart	.8b	Р 39 Philips Lighti	L 9 ng	# r01-69
Also, we current do not have a invalid signature counter for single-signature. Propose to repurpose aPSEInvalidSignatureCounterB to also serve single-signature. SuggestedRemedy Change to: This counter is incremented when the do_detect_pri or do_detect_sec function in Figure 145-13, Figure 145-15, and Figure 145-16, whichever corresponds to Alternative B depending on the value of alt_pri-to.", Proposed Response Response Status W PROPOSED ACCEPT. C/ 30 SC 30.9.11.8a P38 L52 # [01-68 response] Comment Type T Comment Status D Management aPSEProwrDeniedCounterA: This counter is incremented when the PSE state diagram (Figure 145-15) enters the state POWER_DENIED_PRI.", Hard-links Alternative A to the Primary or Alternative B to the Secondary state diagram. SuggestedRemedy Change to: This counter is incremented when the PSE state diagram (Figure 145-15) or Figure 145-15 or Figure 145-16) enters the state POWER_DENIED_PRI. if alt_pri='a', or enters the state POWER_DENIED_PRI. if alt_pri='a', or enters the state POWER_DENIED_PRI if	aPSEInvalidSignatureCounter "This counter is incremented	erB: when the Type 3 and T		ů.	aPSE "This	PowerDeniedCo counter is increr	ounterB: nented who		iagram (Figure 14	<i>Managemen</i> 45-16) enters the state
Change to: This counter is incremented when the do_detect_pri or do_detect_sec function in Figure 145-13, Figure 145-15, and Figure 145-16, whichever corresponds to Alternative B depending on the value of alt_pri, returns 'invalid'.;" Proposed Response Response Status W PROPOSED ACCEPT. C1 30 SC 30.9.1.1.8a P 38 L 52 # r01-68 Comment Type T Comment Status D Management aPSEPowerDeniedCounterA: "This counter is incremented when the PSE state diagram (Figure 145-15) enters the state POWER_DENIED_PRI.;" Hard-links Alternative A to the Primary or Alternative B to the Secondary state diagram. SuggestedRemedy Change to: "This counter is incremented when the PSE state diagram (Figure 145-15 or Figure 145-16) enters the state POWER_DENIED_PRI.;" Proposed Response Response Status W PROPOSED ACCEPT. Proposed Response Response Status W	Also, we current do not have repurpose aPSEInvalidSigna	a invalid signature cou	nter for single-s	ignature. Propose to	Suggeste	dRemedy	A to the P	rimary or Alternativ	e B to the Second	dary state diagram.
depending on the value of alt_pri, returns "invalid",;" Response Status W Proposed Response Response Status W PROPOSED ACCEPT. Cl 30 SC 30.9.1.1.8a P38 L 52 # [01-68] Cl 30 SC 30.9.1.1.8a P38 L 52 # [01-68] Comment Type T Comment Status D Management aPSEPowerDeniedCounterA: "This counter is incremented when the PSE state diagram (Figure 145-15) enters the state POWER_DENIED_PRI.;" Management aPSEPowerDeniedCounterA: This counter is incremented when the PSE state diagram (Figure 145-15) enters the state POWER_DENIED_PRI.;" Management Status D Management aPSEOverLoadCounterA: "This counter is incremented when the PSE state diagram (Figure 145-15) enters the state POWER_DENIED_PRI.;" This counter is incremented when the PSE state diagram (Figure 145-15 or Figure 145-16) enters the state ERROR_DELAY_PRI.;" Hard-links Alternative A to the Primary or Alternative B to the Secondary state diagram. SuggestedRemedy Change to: "This counter is incremented when the PSE state diagram (Figure 145-15 or Figure 145-16) enters the state ERROR_DELAY_PRI if alt_pri='a', or enters the state ERROR_DELAY_PRI if alt_pri='a', or enters the state ERROR_DELAY_SEC if alt_pri='b',:" Proposed Response Response Status W PROPOSED ACCEPT.	Change to: "This counter is inc				enter	s the state POW	ER_DENIE	ED_SEC if alt_pri='		
Cl 30 SC 30.9.1.1.8a P 38 L 52 # r01-68 Comment Type T Comment Status D Management aPSEPowerDeniedCounterA: "This counter is incremented when the PSE state diagram (Figure 145-15) enters the state Management POWER_DENIED_PRI.," Maragement "This counter is incremented when the PSE state diagram (Figure 145-15) enters the state SuggestedRemedy Change to: "This counter is incremented when the PSE state diagram (Figure 145-15 or Figure 145-16) enters the state POWER_DENIED_PRI if alt_pri='a', or enters the state SuggestedRemedy "This counter is incremented when the PSE state diagram (Figure 145-15 or Figure 145-16) enters the state POWER_DENIED_PRI if alt_pri='a', or enters the state SuggestedRemedy "This counter is incremented when the PSE state diagram (Figure 145-15 or Figure 145-16) enters the state POWER_DENIED_PRI if alt_pri='a', or enters the state SuggestedRemedy "This counter is incremented when the PSE state diagram (Figure 145-15 or Figure 145-16) enters the state POWER_DENIED_PRI if alt_pri='a', or enters the state SuggestedRemedy "This counter is incremented when the PSE state diagram (Figure 145-15 or Figure 145-16) enters the state POWER_DENIED_PRI if alt_pri='a', or enters the state ERROR_DELAY_PRI.j" "Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT.	depending on the value of all	_pri, returns 'invalid'.;"	hichever corres	ponds to Alternative B	•		,	nse Status W		
Cl 30 SC 30.9.1.1.8a P 38 L 52 # [r01-68] Yseboodt, Lennart Philips Lighting Management Comment Type T Comment Status D Management aPSEPowerDeniedCounterA: "This counter is incremented when the PSE state diagram (Figure 145-15) enters the state POWER_DENIED_PRI.;" Management Hard-links Alternative A to the Primary or Alternative B to the Secondary state diagram. SuggestedRemedy Change to: "This counter is incremented when the PSE state diagram (Figure 145-15 or Figure 145-16) enters the state POWER_DENIED_PRI if alt_pri='a', or enters the state POWER_DENIED_SEC if alt_pri='a', or enters the state POWER_DENIED_SEC if alt_pri='b'.;" Proposed Response Response Status W	PROPOSED ACCEPT.						.9a			# <u>r01-70</u>
"This counter is incremented when the PSE state diagram (Figure 145-15 or Figure 145-16) enters the state POWER_DENIED_PRI if alt_pri='a', or enters the state POWER_DENIED_SEC if alt_pri='b'.;" ERROR_DELAY_SEC if alt_pri='b'.;" Proposed Response Response Status W	Yseboodt, Lennart <i>Comment Type</i> T <i>Cc</i> aPSEPowerDeniedCounterA "This counter is incremented POWER_DENIED_PRI.;" Hard-links Alternative A to th <i>SuggestedRemedy</i>	Philips Lightin omment Status D : when the PSE state dia	g agram (Figure 1	<i>Management</i> 45-15) enters the state	aPSE "This ERR(Hard- <i>Suggeste</i> Chan "This	OverLoadCount counter is increr DR_DELAY_PRI links Alternative <i>dRemedy</i> ge to: counter is increr	erA: nented wh ;" A to the Pr nented wh	en the PSE state d rimary or Alternativ en the PSE state d	e B to the Second iagram (Figure 14	dary state diagram. 45-15 or Figure 145-16)
	"This counter is incremented enters the state POWER_DE POWER_DENIED_SEC if al Proposed Response Res	ENIED_PRI if alt_pri='a' t_pri='b'.;"			ERRO Proposed	DR_DELAY_SE Response	:if alt_pri <i>Respo</i>	"b'.;"		e

<i>Cl</i> 30 <i>SC</i> 30.9.1.1.9a Yseboodt, Lennart	P 39 Philips Lighting	L 46	# r01-71	C/ 30 Yseboodt,	SC 30.9.1.1	.10b	P 40 Philips Lightir	L 34	# r01-73
	Comment Status D		Management	Comment		Comm	ent Status D	ig	Managemer
This subclause (aPSEOve aPSEOverLoadCounterA a	rLoadCounterB) has the sa and has a copy-paste mista	me number as ke.	U U	aPSE "This direct	MPSAbsentCou counter is incre ly from the state	mented whe POWER_C	en the PSE state di DN_SEC to the stat		45-16) transitions
aPSEOverLoadCounterB: "This counter is incremente ERROR_DELAY_PRI.;"	ed when the PSE state diag	gram (Figure 1	45-16) enters the state		o_timer_sec_do links Alternative	0		B to the Secon	dary state diagram.
Hard-links Alternative A to	the Drimony or Altornative	D to the Second	danu atata diaaram	Suggeste	dRemedy				, ,
	the Fillinary of Alternative	B to the Secon	iuary state ulagram.	Chan	ge to:				
SuggestedRemedy Change to: "This counter is incremente enters the state ERROR_DE ERROR_DELAY_PRI if alt	DELAY_SEC if alt_pri='a', o			transi tmpdo	tions directly fro c_timer_sec_do ER_ON_PRI to	m the state	POWER_ON_SEC serted, if alt_pri='a'	to the state IDL , or, transitions o	45-15 or Figure 145-16) .E_SEC due to lirectly from the state one being asserted, if
- Fix subclause numbering				Proposed	Response	Respon	se Status W		
0	Response Status W			PROF	POSED ACCEP	т.			
PROPOSED ACCEPT.				CI 30	SC 30.12.2	1 10	P 42	L 13	# -04 74
				Yseboodt.		.1.10	Philips Lightir	-	# r01-74
C/ 30 SC 30.9.1.1.10a Yseboodt, Lennart	P 40 Philips Lighting	L 23	# r01-72	Comment		Comm	ent Status D	9	Managemer
							ead-only value that	indicates the PD	Class of the detected
Comment Type T (aPSEMPSAbsentCounterA	Comment Status D		Management	PD as	s specified in 33	.2.6."			
"This counter is incremented directly from the state POV mpdo_timer_pri_done bein	ed when the PSE state diag			lt is u From	reading 33.2.6	text if this is gather it wa	the requested or a sintended as the Class" is not a co	requested Class	
Hard-links Alternative A to	the Primary or Alternative	B to the Secor	ndary state diagram.	Suggeste	dRemedy				
SuggestedRemedy				Chan	ge to:				
Change to: "This counter is incremente transitions directly from the	e state POWER_ON_PRI te	the state IDL	E_PRI due to	and 1		and Type 4 o	devices use the PD		s specified in 33.2.6 s as the value."
mpdo_timer_pri_done bein POWER_ON_SEC to the s				Proposed	Response	Respon	se Status W		
alt_pri='b'.;"		uo_umei_sec	Lone being asserted li	PROF	POSED ACCEP	т.			
Proposed Response R	Response Status W			OOS					

PROPOSED ACCEPT.

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

C/ 30 SC 30.12.2.1.1	4 P 42	L 30	#	C/ 30	SC 20	12.2.1.18	0	P 43	L8	#
Yseboodt, Lennart	Philips Lighting		# r01-75	Yseboodt,		12.2.1.10		P 43 Philips Lighting	-	# r01-77
Comment Type T	Comment Status X		Management	Comment	Туре Е	R	Comment S	Status D		Managemen
aLldpXdot3LocPowerTyp "The second bit indicates set this bit to indicate a P	PSE or PD. A PSE shall se	t this bit to ind	icate a PSE. A PD shall					e that was used note system."	d by the PD to	compute the power that
Why do we have 'shalls'	on PSEs and PDs in Clause here. Clause 79 already has			staten	nent is inco		/alue is a fun	ction of the am	ount of power i	t needs. The quoted
SuggestedRemedy				Suggested	-					
Strike last two sentences	in quoted text.				sentence.					
	Response Status W			Proposed	,		Response S	tatus W		
, ,	here are other instances of the	nis as well (30.	.12.2.1.9 for example).	OOS	POSED AC	CEPT.				
OOS				005						
				C/ 30	SC 30.	.12.2.1.18	8a	P 43	L 15	# r01-78
C/ 30 SC 30.12.2.1.1	· ·-	L 43	# r01-76	Yseboodt,	Lennart			Philips Lighting	g	
Yseboodt, Lennart	Philips Lighting			Comment	Туре Т	-	Comment S	Status D		Managemen
Comment Type E "PD requested power val this power allocation if ac	Comment Status D ue is the maximum input ave ccepted."	erage power th	<i>Editorial</i> e PD ever draws under	pse_d	lll_ready_a	lt(X) and	pd_dll_read			s for the independent
Missing determiner.				Suggested	dRemedy					
SuggestedRemedy					ve in the e e 79, Claus		ft aLldpXdot3	BLocReadyA an	d aLldpXdot3L	ocReadyB (Clause 30,
Replace by: "The PD requested powe under this power allocation	r value is the maximum inpu	it average pow	er the PD ever draws	Proposed PROF	Response POSED AC		Response S	tatus W		
·	Response Status W				0012710					
PROPOSED ACCEPT.										
OOS										

C/ 30 SC 30.12.2. Yseboodt, Lennart	1.18c	P 43 Philips Lightin	L 49 a	# r01-79	CI 30 Yseboodt,	SC 30.12.2 Lennart	1.18g	P 44 Philips Lightin	L 51	# r01-82
Comment Type E aLldpXdot3LocPDRed It makes more sense aLldpXdot3LocPDRed	uestedPower to put these a	<i>t Status</i> D ValueA is 30.12. Ifter 30.12.2.1.17	2.1.18c.	Editorial	<i>Comment</i> "For a	<i>Type</i> T PSE this attrib	ute contains	ent Status D the value of the all of this attribute are	PSEPowerPairs	<i>Managemen</i> Ext attribute (see
SuggestedRemedy Move 30.12.2.1.18c a aLldpXdot3LocPDRed aLldpXdot3LocPDRed Do the same for the m Proposed Response	LldpXdot3Loc juestedPower juestedPower emove variant	PDRequestedPo ValueB to after 3 Value.		30.12.2.1.18d	Suggested Chang Proposed		PairsExt to a <i>Respon</i>	airs attribute. PSEPowerPairs <i>se Status</i> W		
PROPOSED ACCEP	Г.				<i>Cl</i> 30 Yseboodt,	SC 30.12.2 Lennart	1.18h	P 45 Philips Lightin	L 6 g	# <u>r01-83</u>
Cl 30 SC 30.12.2. Yseboodt, Lennart	1	P 44 Philips Lightin	L 42 g	# <u>r01-80</u>				ent Status X ssExtModeA is mis	sing an enumei	Managemen rated value to indicate
Comment Type T There are no Clause : defined in Table 79-60 SuggestedRemedy	30 objects for	t Status D 'PSE powering s	tatus' and 'PD p	Management owering status' as	aLldp)	alue "singlesig Kdot3LocDualS	gPowerClas		eir remote cour	nterparts.
Editor to create objec Proposed Response PROPOSED ACCEP	Response	riate content. Status W			TFTD	Response bly OBE by 364	Respon	se Status W		
C/ 30 SC 30.12.2. Yseboodt, Lennart	1.18g	P 44 Philips Lightin	L 44 g	# <u>r01-81</u>	C/ 30 Yseboodt,	SC 30.12.2 Lennart	.1.18j	P 45 Philips Lightin	L 37 g	# r01-84
Comment Type E "APPROPRIATE SYN		<i>t Status</i> D me as used for a	PSEPowerPairs	<i>Editorial</i> Ext"	Comment 30.12.			e <i>nt Status</i> D oad is at wrong loc	ation.	Editoria
Referenced object do SuggestedRemedy Copy APPROPRIATE with "both" as this is r Proposed Response PROPOSED ACCEP	SYNTAX fro ot supported <i>Response</i>		irs to here, how	ever remove the line	Proposed	30.12.2.1.18j a	Respon	ocPDLoad to just al se Status W	iter aLldpXdot3l	LocPowerTypeExt.

C/ 30 SC 30.12.2.1 . /seboodt, Lennart	18k P45 Philips Lighting	L 48	# r01-85	C/ 30 Yseboodt,	SC 30.12.2.	1.18m	P 46 Philips Lightin	L 17	# r01-86
Comment Type TR	Comment Status D		Management	Comment		Comme	ent Status X	9	Managemen
Objects aLldpXdot3Loc	PowerClassExtA and aLldpXdo s no corresponding Clause 79		Ũ	aLldp>	Xdot3LocPower	ClassExt	PSE and PD wh	en they should li	Ŭ
SuggestedRemedy				Classe	es. descriptive text i	o in complete			
	owerClassExtA, aLldpXdot3Lo ClassExtA, aLldpXdot3RemPov			Suggested	•	sincompieu	5.		
Proposed Response	Response Status W	VEICIASSEXIA	unoughout the draft.	00	ace the ENUME	RATED VAI	_UEs by:		
TFTD					lsig :: Dual-sig	nature PD			
IIID					s8 :: Class 8 s7 :: Class 7				
possibly OBE by 364				* clas	s6 :: Class 6				
					s5 :: Class 5 s4 :: Class 4				
					s3 :: Class 3				
					s2 :: Class 2				
				* clas	s1 :: Class 1				
							OUR DEFINED AS		
				during					s the requested Class ure PD, a read-only
					set to 'dualsig'.	Classificatio	in (see 145.5.0). F	or a qual-signati	are PD, a read-only
									y value that indicates
					priently assigned only value set to		145.2.7). For a Pt	SE connected to	a dual-signature PD, a
							OUR DEFINED AS	S:" for	
							sExtModeA and sExtModeB to follo	ow the style abov	/e.
				Proposed	Response	Respons	se Status W		
				TFTD					
				OOS					
				possib	bly OBE by 364				

Ø 30 SC 30.12.2.1.18n P 46 L 31 # [r01-87] seboodt, Lennart Philips Lighting	C/ 30 SC 30.12.2.1 P 49 L 29 # [r01-89] Yseboodt, Lennart Philips Lighting
Comment Type E Comment Status D Editorial Enumerated values of aLldpXdot3LocPowerTypeExt are confusing. Editorial Editorial	Comment Type ER Comment Status D Editorial Subclause numbering after 30.12.2.1.18ab has gone wrong.
 Change type4dualPD to type4dualsigPD. Change type4singlePD to type4singlesigPD. Change type3dualPD to type3dualsigPD. Change type3singlePD to type3singlesigPD. Make same fixes for the remote. Proposed Response Response Status W PROPOSED ACCEPT. 	SuggestedRemedy Use proper subclause numbering. [] Recheck this comment after implementing all Clause 30 changes. Proposed Response Response Status W PROPOSED ACCEPT. OOS
2/ 30 SC 30.12.2.1.18t P 47 L 51 # r01-88 seboodt, Lennart Philips Lighting Philips Lighting comment Type T Comment Status X Management aLldpXdot3LocPowerDownRequest is a BIT STRING of size 6, but it is used as a numeric value. Management uggestedRemedy Change to INTEGER. Also change the remote. Proposed Response troposed Response Response Status W TFTD OOS	Cl 30 SC 30.12.2.1.18ab15 P 52 L 9 # r01-90 Yseboodt, Lennart Philips Lighting # # r01-90 Comment Type T Comment Status D Management aLldpXdot3LocPSEPowerPriceIndex:: "A GET attribute that returns an index of the price of power.," Very terse, does not explain this is a PSE value only. SuggestedRemedy Replace by: "A GET attribute that returns an index of the price of power being sourced by the PSE. For a PD this value is undefined.," Add same last sentence to the remote variant.

C/ 30 SC 30.12.3.1.14	P53 L25	# r01-91		SC 30.12.3.1			L 50	# r01-93
Yseboodt, Lennart	Philips Lighting		Yseboodt, Le			ps Lighting		
Comment Type T Comm	ent Status D	Management	Comment Typ		Comment Status	-		Management
This subclause is not in the draft Changes have been made to the	(ergo, unmodified). 'local' version that need to be mirr	rored here.			e contains the value e contents of this at			Ext attribute (see
SuggestedRemedy Note: Existing text, **added text*	*, and XXremoved textXX.			PowerPairsExt	should be aPSEPc	werPairs		
- Bring 30.12.3.1.14 into the	draft		SuggestedRe	emedy				
- Change as BEHAVIOUR a A GET attribute that returns	as follows: a bit string indicating whether the			e aPSEPowerl 30.9.1.1.3 to	PairsExt with aPSEF 30.9.1.1.4	PowerPairs		
	rpe 1 or XXType 2XX **greater tha		Proposed Re	sponse	Response Status	w		
	1 or XXType 2XX **greater than Ty aLldpXdot3RemPowerTypeExt**;	pe 1 ^m . The second bit	PROPOS	SED ACCEPT				
OOS C/ 30 SC 30.12.3.1.18 (seboodt, Lennart	P 53 L 38 Philips Lighting	# r01-92						
Comment Type T Comm	ent Status D	Management						
The definition of aLldpXdot3Rem longer matches with changes matches with changes matches with chan	PSEAllocatedPowerValue (current ide to the local variant.	tly not in the draft) no						
SuggestedRemedy								
A GET attribute that re remote system. For a PSE, it is t remote system to compute the p **was mirrored back by the remo received from the remote system	and change BEHAVIOUR follows: turns the PSE allocated power val he PSE allocated power value that ower value that it has currently req te PD**. For a PD, it is the PSE all i. The definition and encoding of P n aLldpXdot3LocPSEAllocatedPow	t XXwas used by the uested from the PSEXX located power value SE allocated power						
Make similar change to aLldpXdo aLldpXdot3RemPSEAllocatedPo	ot3RemPSEAllocatedPowerValueA werValueB.	A and						
Proposed Response Respor	nse Status W							

PROPOSED ACCEPT.

OOS

C/ 30 S Yseboodt, Len	SC 30.12.3.1.18k	P 56 Philips Lighting	L 17	# <u>r01-94</u>	C/ 33 Yseboodt		33.4.9.3.2 +	-	2 s Lighting	L 54	# r01-95
						·			0 0	9	
Comment Typ	e T Comn	ent Status X			Comment	Туре	т	Comment Status	D		Editorial
- The enur Classes. - The desc	3RemPowerClassExt merated values only lis criptive text is incomple		n they should li	st the possible	devic For 5 value	es shall GBASE- s determ	meet the v T capable hined by Ta	alues determined b midspans, PSAFE able 33-20b from 1 I	/ Table 3 (T loss fo //Hz to 25	3-20b from 1 M r Midspan PSE 50 MHz.	ss for Midspan PSE Hz to 100 MHz. devices shall meet the E devices shall meet
SuggestedRei	medy							y Table 33-20b fron			
	the ENUMERATED V	ALUEs by:									
* class8	:: Dual-signature PD :: Class 8 :: Class 7				That : Georg		robably ref	fer to Table 33-20c.			
	:: Class 7 :: Class 6				Suggeste	dRemea	ly				
	:: Class 5				Chan	ae Table	- 33-20b to	Table 33-20c. (3x)			
* class4	:: Class 4				Proposed	0					
	:: Class 3							Response Status	vv		
	:: Class 2				PROF	OSED	ACCEPTI	N PRINCIPLE.			
* class1	:: Class 1				The t	able will	become ec	quation 33-19b by c	omment :	324. Change re	eference accordingly.
	- Replace the "BEHAV	IOUR DEFINED AS:	" by:							g	
	"For a single-signature				C/ 33	SC	33.4.9.3.2	P 7	3	L 3	# r01-96
	Class by the remote P	SE. For a dual-signat	ure PD, a read-	only value set to	Yseboodt	, Lennar	t	Philip	s Lighting	J	
	y the remote PSE. For a PSE connected	to a cingle cignature		walue that indicates	Comment	Type	Е	Comment Status	р		Editorial
the reques	sted Class during Phys	ical Layer classificati	ion (see 145.2.				_	z.Calculations"	2		Editorial
the remote		ie a adai eigilatale i	2, a load only		Missi	ng space	Э.				
	Change the "PEUAV		" for		Suggeste	dRemea	V				
	 Change the "BEHAV 3RemDualSigPowerC 		101		Add s		,				
	3RemDualSigPowerC		ow the style abo	ve.				D 0//			
Proposed Res	0	nse Status W	,		Proposed			Response Status	W		
TFTD	nespoi				PROF	POSED	ACCEPT.				
IFID											

OOS

possibly OBE by 364

C/ 33 SC 33.6.3.3 P73 L 19 # r01-97	Cl 79 SC 79.3.2 P80 L14 # [01-98
/seboodt, Lennart Philips Lighting	Yseboodt, Lennart Philips Lighting
Comment Type TR Comment Status X DLL	Comment Type E Comment Status D Editoria
In 802.3-2015, in Clause 79, the permitted value range for the PD requested power and PSE allocated power value fields ranged 1 to 255. By mistake, in Clause 33 the permitted range started at zero. The value of zero is undefined in DLL.	"Power entities may continue to use the Power Via MDI TLV basic fields shown in Figure 79-3 prior to supplying/drawing power to/from the Power Interface (PI)." This is the first mention of PI in Clause 79. Refer to definitions.
	SuggestedRemedy
In 802.3bt we are changing Clause 79 to permit value zero, this is required to support dual-	
signature power negotiation. However that, in combination with the current value ranges in 33.6.3.3 makes zero a legal value for legacy devices. Since this is undefined, we must prevent this.	Change to: "Power entities may continue to use the Power Via MDI TLV basic fields shown in Figure 79-3 prior to supplying/drawing power to/from the Power Interface (PI), as defined in 1.4.337."
The proposed solution is to restrict the value range in 33.6.3.3. In summary, we are moving a restriction from Clause 79 to 33.6.3.3, the net result is an identical permitted value range for legacy devices.	Proposed Response Response Status W PROPOSED ACCEPT.
A supporting MR has been filed for this comment.	C/ 79 SC 79.3.2 P 80 L 36 # r01-99
SuggestedRemedy	Yseboodt, Lennart Philips Lighting
In subclause 33.6.3.3 (variables, DLL classification), change the	Comment Type ER Comment Status D Editoria
"Values:0 through 255" to "Values 1 through 255" for the following: - MirroredPDRequestedPowerValue - MirroredPSEAllocatedPowerValue	Figure 79-3 shows a "Power down" field. Field name is different all over Clause 79.
- PDRequestedPowerValueEcho	Replace all by "Power down"
 PDRequestedPowerValue (here change to "0 through PD_DLLMAX_VALUE") PSEAllocatedPowerValue 	SuggestedRemedy
- PSEAllocatedPowerValueEcho	- page 89, line 41: Change subclause title to "Power down"
Proposed Response Response Status W	 page 89, line 42: Change "request power down" to "Power down request" page 90, line 12: Table 79-6g title => "Power down field"
TFTD	Proposed Response Response Status W
Does this need to be maintenance?	PROPOSED ACCEPT.

<i>Cl</i> 79 <i>SC</i> 79.3.2.1 Yseboodt, Lennart	P 81 Philips Lighting	L 1	# r01-100	<i>Cl</i> 79 Yseboodt, L	SC 79.3.2.3 _ennart	P 82 Philips Lighti	L 32	# r <u>01-103</u>
Comment Type E Editor to consistently p Eg. The 'Port class' fie SuggestedRemedy To implement through	<i>Comment Status</i> D but single quotes around field na ld.	mes.	Editorial	Table 7 same v defined	ower class' field '9-3b based on	Comment Status D I transmitted by a PSE shall aPSEPowerClassification. C I. Class 5 and above is com	lass 4 and abov	e is indicated with the
Proposed Response PROPOSED ACCEPT OOS	Response Status W			Table 7 same v	ower class' field '9-3b based on alue in this field	t transmitted by a PSE shall aPSEPowerClassification. C Class 5 and above is com	lass 4 and abov	e is indicated with the
Cl 79 SC 79.3.2.1 Yseboodt, Lennart Comment Type E	P81 Philips Lighting Comment Status D	L 6	# <u>r01-101</u> Editorial	Proposed F	l in 79.3.2.6c.6. Response DSED ACCEPT	Response Status W		
Table 79-3 "MDI powe title which is "MDI pow	r capabilities/status" does match	n with Figu		C/ 79 Yseboodt, L	SC 79.3.2.4 _ennart	Р 83 Philips Lighti	L 3	# <u>r01-104</u>
SuggestedRemedy Change Table title to " Proposed Response PROPOSED ACCEPT	MDI power support field". Response Status W			priority	ower type/sourc defined in Table around fieldna	Comment Status D e/priority field shall contain a e 79-4 and is reported for the me and capitalize first letter	e device generat	
Cl 79 SC 79.3.2.1 Yseboodt, Lennart Comment Type E Table 79-3, unlike eve	P 81 Philips Lighting <i>Comment Status</i> D ry other Table in Clause 79, lists	L 8	# <u>r01-102</u> <i>Editorial</i> arting with the LSB.	"The 'P priority Proposed F	ower type/sourd defined in Tabl	ce/priority' field shall contain e 79-4 and is reported for the <i>Response Status</i> W		
The Title of the table d SuggestedRemedy - Reverse the order of - Append 'field' to Tabl Proposed Response PROPOSED ACCEPT	the rows in Table 79-3 e title <i>Response Status</i> W		-	Suggested	^r ype E in column "Fur Remedy	P83 Philips Lighti <i>Comment Status</i> D oction" should all start with a	capital letter.	# <u>r01-105</u> Editoria
OOS				Proposed F	, ,	italize first letter and update Response Status W	usage in Clause	979.

C/ 79 SC 79.3.2. Yseboodt, Lennart	61 P 85 Philips Lightir	L 1 ng	# r <u>01-106</u>	<i>Cl</i> 79 Yseboodt,	SC 79.3.2.6c.1 Lennart	Р 86 Philips Lighti	L 50 ing	# r01-109
Comment Type E "Table 79-6aPD rea Figure 79-3. Strike 'f	Comment Status D quested power value for Mode or'.	A field" does not	<i>Editorial</i> t match with field title in		79-6c, Power status	Comment Status D s field, item 'Power Class d or assigned by Type 3/4		LLDP alue for Class 0.
And do the same for Proposed Response PROPOSED ACCEF C/ 79 SC 79.3.2. Yseboodt, Lennart Comment Type E "The 'power status' f	Response Status W PT. 6c P85 Philips Lightin Comment Status D eld shall contain the PSE's bit- ned in Table 79-6c, and is repo	L 44 ng map of the PSE		Proposed PROP OOS The de When Type 2 'power	ce by "0 0 0 0 = Res Response OSED REJECT. escription says this the 'power type ext 2 PD the	served/Ignore" <i>Response Status</i> W is for Type 1 and Type 2 ' field indicates a PD for a all be set to the requested	a single-signature	
	ield shall contain the PSE's bit ied in Table 79-6c, and is repo <i>Response Status</i> W PT.			Cl 79 Yseboodt, <i>Comment</i> "Wher	Туре Е	P87 Philips Lighti <i>Comment Status</i> D t' field indicates a PD the quested Class of	-	# <u>r01-110</u> <i>Editoria</i> ower Class ext Mode A'
Cl 79 SC 79.3.2. Yseboodt, Lennart Comment Type E Table 79-6c, bit 13:1 SuggestedRemedy Capitalize. Proposed Response PROPOSED ACCER	Philips Lightin Comment Status D 2 "powered single-signature Pl Response Status W	0	# <u>r01-108</u> Editorial	When signatu shall b Field r Suggested Chang "When A' field the du When signatu shall b Proposed	the power type ext ure PD, the 'dual-sig e set to the PSEs a names should start of <i>Remedy</i> ge to: the 'Power Type ex al-signature PD for the 'Power Type ex ure PD, the 'Dual-si pe set to the PSEs a	Mode A during Physical I field indicates a PSE and gnature power Class ext I assigned Class for Alternative with capital first letter. xt' field indicates a PD the requested Class of Mode A during Physical I tt' field indicates a PSE and gnature power Class ext assigned Class for Alternative Response Status W	d the PSE is conr Mode A' field ative A as defined e 'Dual-signature _ayer Classification nd the PSE is cor Mode A' field	nected to a dual- l in 145.2.7." power Class ext Mode on as defined in 145.3.6. nnected to a dual-

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

C/ 79 SC 79.3.2.6c Yseboodt, Lennart	.4 P 87 Philips Lighti	L 19 ng	# <u>r01-111</u>	CI 79 S Yseboodt, Len	C 79.3.2.6c nart		7 L 33 os Lighting	# <u>r01-113</u>
Comment Type TR	Comment Status D		LLDP	Comment Type	E	Comment Status	D	Editoria
"PSEs connected to a	Type 1, Type 2 or single-sig	nature PD set this	s field to value 7."			ext' field indicates a	PD for a single-signat	ture PD or Type 1 and
	able to distinguish the Type issue of Type 3 PSEs that a equirement.			Classificat defined in the PSEs a Class as d	ss ext' field s ion as 145.3.6. Whe assigned efined in 145	en the power type is	PSE, the 'power Clas	PD during Physical Layer as ext' field shall be set to PD and dual-signature
SuggestedRemedy				PDs set th Class ext'		ower class indicated	by the total power ind	dicated by 'power Class ext
"PSEs connected to a mode, shall set this fiel	single-signature PD, or Type d to value 7."	3 PSEs that ope	erate only in 2-pair	Mode A' fie			by the total power me	
- Do the same for 79.3.	2.6c.5			Field name	es should sta	rt with capital first let	tter.	
Proposed Response	Response Status W			SuggestedRen	nedy			
PROPOSED ACCEPT				Type 2 PD	'Power Type the		0 0	ature PD or Type 1 and
C/ 79 SC 79.3.2.6c Yseboodt, Lennart	.5 P87 Philips Lighti	L 24 ng	# r01-112	Classificat defined in	ion as 145.3.6. Whe			PD during Physical Layer ss ext' field shall be set to
field shall be set to the	Comment Status D ext' field indicates a PD the requested Class D for Mode B during Physica	0 1		PDs set th Class ext' ext Mode A	efined in 145 e 'Power field to the po A' field		Ū	PD and dual-signature
When the 'power type e signature PD, the 'dual	ext' field indciates a PSE an -signature power Class ext I s assigned Class for Alterna	/lode B' field		Proposed Res		Response Status	w	
Field names should sta	art with capital first letter.							
SuggestedRemedy								
B' field shall be set to the of the dual-signature P 145.3.6. When the 'Power Type signature PD, the 'Dual	e ext' field indicates a PD the he requested Class D for Mode B during Physica ext' field indciates a PSE an I-signature power Class ext s assigned Class for Alterna	al Layer Classifica ad the PSE is cor Mode B' field	ation as defined in nected to a dual-					
Proposed Response	Response Status W							
PROPOSED ACCEPT.								
TVPE: TR/technical require	d ER/editorial required GR	/general required	T/technical E/editorial G/g	eneral			Comment ID r01-11	13 Page 29 of 123

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

C/ 79 SC 79.3.2.6d P87 L 33 # r Yseboodt, Lennart Philips Lighting		79 SC eboodt, Lenna	79.3.2.6d.2 rt		' 87 ips Lighting	L 50	# <u>r01-116</u>
Comment Type E Comment Status D "The 'system setup' field shall contain the device bit-map of the Power type ext, and PD Load defined in Table 79-6d and is reported for the device generating the TLV. The v 'system setup'	, PD 4PID,	field, but faile Also the text	ed to move t in that subc	Comment Statu 4PID bit from the he descriptive sul lause needs to be	s D System setup bclause with i e updated.	t.	LLDF ver type/source/priority
field transmitted by a PSE is undefined." Field names should start with capital first letter. SuggestedRemedy Change to: "The 'System setup' field shall contain the device bit-map of the Power Type ex and PD Load defined in Table 79-6d and is reported for the device generating the TLV. The v 'System setup' field transmitted by a PSE is undefined." Proposed Response Response Status W PROPOSED ACCEPT.	rt, PD 4PID, value of the Pro	DLL power c ggestedReme - Delete subd - Add new su This field sha the PD suppor This field sha poosed Respo PROPOSED	ontrol state dy clause 79.3. ubclause uni- all be set ac- ort powering all be set to <i>nse</i> ACCEPT.	diagrams. 2.6d.2 der 79.3.2.4 title " cording to Table 7 of both Modes si 0' when the powe <i>Response Status</i>	PD 4PID" with '9-4 when the multaneously er type is PSE s W	n content: power type i	t is now handled by the
Cl 79 SC 79.3.2.6d P87 L 33 # r Yseboodt, Lennart Philips Lighting Philips Lighting Comment Type E Comment Status D "This field shall be set to '0' when the power type is PSE. This field shall be set '1' when the 'power type ext' is Type 3 PD or Type 4 PD." Field names should start with capital first letter. SuggestedRemedy Change to: "This field shall be set to '0' when the power type is PSE. This field shall be set '1' when the 'Power Type ext' is Type 3 PD or Type 4 PD." Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT. Proposed Response To the top of	Co Editorial ^{to} Suy Pro	eboodt, Lenna mment Type	E ext" we sho dy d to "Power" nse	Phil <i>Comment Statu</i> uld capitalize Type	e to be consis		# <u>r01-117</u> Editoria rest of the draft.

Comment Type T Comment Status D LLDP In Table 73-6d the Power Type ext field describes the Type of the PSE or PD. This still includes entries for Type 1 / Type 2, which no longer makes sense given that they suggested/Remedy Reduce field to 15 bits with following content: When the power type is PSE this field shall be set to indicate that the PSE has conclute the Autoclass is made by the PD using the "Autoclass request for Autoclass is made by the PD using the "Autoclass request for Autoclass is made by the PD using the "Autoclass request for Autoclass is made by the PD using the "Autoclass request for Autoclass is made by the PD using the "Autoclass request for Autoclass is made by the PD using the "Autoclass request field defined in Table 73-6d. 010 Type 3 rest 	C/ 79 SC 79.3.2		P88	L1	# r01-118	C/ 79	SC 79.3.2.	6f.2	P89	L 30	# r01-120
In Table 79-64 the Power Type est field describes the Type of the PSE or PD. The still induste entries for Type 1.7 type 2, which no longer makes sense given that they are barred from sending the T344 extension fields. When the power type is PSE this field shall be set to indicate that the PSE has conclusion to match P100 type 3 single-signature PD to 117 type 4 single-signaturePD to 117 type 4 single-signature PD to 117 type 4 sing	Yseboodt, Lennart		Philips Lighting					Comm		ig	Editoria
SuggestedRemedy Network field to 3 bits with following content: 111 Type 4 dual-signature PD 101 Type 4 single-signature PD 010 Type 3 single-signature PD 010 Type 3 single-signature PD 010 Type 4 PSE 010 Type 4 PSE 010 Type 4 PSE 010 Type 3 PSE - Move the reserved bit on bit position 1 to the top (which now has bits 7.4 as Reserved) - Update Clause 30 enumeration to match Proposed Response Response Status W PROPOSED ACCEPT. OOS Carry SC 79.3.2.6f.1 P89 L25 # [11119] Vent the power type is PSE this field shall be set to indicate if the PSE supports Autoclass or coll.L according to Table 79-61. When the power type is PSE this field shall be set to indicate if the PSE supports Autoclass or coll.L according to Table 79-61. When the Power Type is PSE this field shall be set to indicate if the PSE supports Autoclass or coll.L according to Table 79-61. When the Power Type is PSE this field shall be set to indicate if the PSE supports Autoclass or coll.L according to Table 79-61. Change to: "The Power down request field shall be set as	In Table 79-6d the F This still includes er are barred from sen	Power Type ext fiel htries for Type 1 / 1	d describes the T Type 2, which no	Type of the PSE longer makes set	or PD.	"Wher the Au This h	n the power typ itoclass measu appens after a	e is PSE this rement. request for <i>i</i>	s field shall be set Autoclass is made		ne PSE has concluded
Cl 79 SC 79.3.2.6f.1 P89 L 25 # r01-119 Yseboodt, Lennart Philips Lighting Comment Type E Comment Status D Editorial "When the power type is PSE this field shall be set to indicate if the PSE supports Autoclass over DLL according to Table 79-6f. When the power type is PD this field shall be set to 0." E Comment Type E Comment Type is PSE this field shall be set to indicate if the PSE supports SuggestedRemedy Change to: "When the Power Type is PSE this field shall be set to indicate if the PSE supports Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT. OS	 Reduce field to 3 b 111 Reserved / Igno 110 Type 4 dual-sig 101 Type 4 single-s 011 Type 3 dual-sig 010 Type 3 single-s 001 Type 4 PSE 000 Type 3 PSE Move the reserved - Update Clause 30 Proposed Response 	ore nature PD ignature PD ignature PD bit on bit position enumeration to ma <i>Response Si</i>	1 to the top (whic atch	ch now has bits	7:4 as Reserved)	When Field r Suggested Chang "When the Au This h reques When Proposed PROF	the power type hames should s dRemedy ge to: n the Power Typ toclass measu appens after a st" field defined the Power Typ Response	e is PD this fi start with cap be is PSE th rement. request for / in Table 79 e is PD this <i>Respon</i>	ield shall be set to bital first letter. is field shall be se Autoclass is made -6f. field shall be set to	t to indicate that t	
Cli 79 SC 79.3.2.6f.1 P89 L 25 # [01-119] Yseboodt, Lennart Philips Lighting Philips Lighting Comment Type E Comment Status D E Comment Type E Comment Status D E Editorial The 'request power down' field shall be set as defined in Table 79-6g. by a PD that no longer requires power from the PL." "When the power type is PSE this field shall be set to indicate if the PSE supports Autoclass over DLL according to Table 79-6f. When the power type is PSE this field shall be set to indicate if the PSE supports Autoclass over DLL according to Table 79-6f. When the Power Type is PSE this field shall be set to indicate if the PSE supports Autoclass over DLL according to Table 79-6f. When the Power Type is PD this field shall be set to 0." Change to: "The 'Power down request' field shall be set as defined in Table 79-6g. by a PD that no longer requires power from the PI." "When the Power Type is PSE this field shall be set to indicate if the PSE supports Autoclass over DLL according to Table 79-6f. When the Power Type is PD this field shall be set to 0." Proposed Response Response Status W PROPOSED ACCEPT. OOS	OOS					-		6f.2			# r01-121
Autoclass over DLL according to Table 79-6f. When the power type is PD this field shall be set to 0." Field names should start with capital first letter. SuggestedRemedy Change to: "When the Power Type is PSE this field shall be set to indicate if the PSE supports Autoclass over DLL according to Table 79-6f. When the Power Type is PD this field shall be set to 0." Proposed Response Response Status W PROPOSED ACCEPT. SuggestedRemedy Change to: "The 'Power down request' field shall be set as defined in Table 79-6g. by a PD that not longer requires power from the PL." Proposed Response Response Status W PROPOSED ACCEPT.	Yseboodt, Lennart Comment Type E	Comment S	Philips Lighting tatus D	-	Editorial	Comment "The ' longer	<i>Type</i> E request power requires powe	down' field s	ent Status D hall be set as defir	-	<i>Editoria</i> g. by a PD that no
SuggestedRemedy Proposed Response Response Status W "When the Power Type is PSE this field shall be set to indicate if the PSE supports PROPOSED ACCEPT. PROPOSED ACCEPT. Autoclass over DLL according to Table 79-6f. When the Power Type is PD this field shall be set to 0." OOS Proposed Response Response Status W PROPOSED ACCEPT. OOS	Autoclass over DLL according to Table Field names should	79-6f. When the po	ower type is PD th			Suggested Chang "The "	<i>dRemedy</i> ge to: Power down re			ned in Table 79-6	ig. by a PD that no
Proposed Response Response Status W PROPOSED ACCEPT.	Change to: "When the Power T Autoclass over DLL					Proposed PROF	Response	Respon			
OOS	Proposed Response PROPOSED ACCE	Response Si			,						

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

C/ 79 SC 79.3.8.1 P92 C/ 79 SC 79.4.2 P95 L13 # r01-124 L 26 # r01-122 Yseboodt, Lennart Yseboodt, Lennart Philips Lighting Philips Lighting Comment Type T Comment Status D Editorial Comment Type E Comment Status D **F**ditorial The energy measurement field in Table 79-7b does not contain a 'valid values' range. In Table 79-9 and 79-10 in the column "TLV variable" the variable "PSE power pairx" is used . this has been renamed. SuggestedRemedy SuggestedRemedy Add to 'Energy measurement': Change variable name to: "Valid values are 0 through 4294967295." "PSE power pairs ext" Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT. OOS C/ 145 SC 145 P103 L1 # r01-125 C/ 79 SC 79.3.8.2 P92 L 33 # r01-123 Yseboodt, Lennart Philips Lighting Yseboodt, Lennart Philips Lighting Comment Type E Comment Status D Editorial Comment Type TR Comment Status X Pres: Yseboodt1 We have inconsistent capitalization for "Physical Layer [C/c]lassification". "The PSE power price index field shall contain a linear index of the current value of electricity within the PSE. This is a 15 bit unsigned integer in the range 0 through 32767, as For 802.3-2015 SECTION2 defined in Table 79-7d. The PSE shall set the value of this field taking the availability of without capital c: 3 occurances power from any external and internal resources, and the relative supply and demand with capitcal C: 47 occurences balance, into account. A value of zero means that no power price index is available. The meaning of this field is implementation dependent." In our draft: without capital c: 14 occurances Contradicts itself: it needs to be both a linear index, but it's also implementation dependent. with capitcal C: 47 occurences SuggestedRemedy As currently specified this isn't terribly useful. We should come up with a specification. - Replace throughout the draft "Physical Layer Classification" with "Physical Layer SuggestedRemedy classification". Adopt yseboodt_01_1117_powerpriceindex.pdf - Decapitalize "Classification" whereever it should not be capitalized (whole draft) Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT. TFTD OOS OOS WFP

IEEE P802.3bt D3.1 4-Pair PoE 1st Sponsor recirculation ballot comments

	D					D		
C/ 145 SC 145.1 Yseboodt, Lennart	P 103 Philips Lighting	L 9	# <u>r01-126</u>	C/ 145 Yseboodt, I	SC 145.1 Lennart	P 103 Philips Lighting	L 24	# r01-129
Comment Type ER	Comment Status D		Editorial	Comment T		Comment Status D		Editorial
"This clause defines enhancement of the	the functional and electrical chara Power over Ethernet (PoE) system	m defined in Ċ	providing an Clause 33."	"The P used fo	SE and PD allo or data transmis	bw devices to supply/use power ssion." low this, the standard does.	using the same	
	was lost due to adopting Thomps Clause 145 is an 'add-on' to Claus use.			Suggested Change	e to:			
SuggestedRemedy					[.] over Ethernet sed for data tra	allows devices to supply/use po insmission."	wer using the s	same generic cabling
"This clause defines	taken from response in i-43): the functional and electrical chara system. The original PoE system			Proposed F		Response Status W		
Proposed Response	Response Status W			C/ 145	SC 145.1	P103	L 32	# r01-130
PROPOSED ACCEP	PT.			Yseboodt, I		Philips Lighting		
C/ 145 SC 145.1	P103	L 16	# r01-127	Comment T	Туре Е	Comment Status D		Editorial
Yseboodt, Lennart	Philips Lighting					is intended to provide a 10BASE		
Comment Type E "The cabling portion	Comment Status D of the system is defined as the Li	nk Section."	Editorial	data ar	nd power."	E-T, or 10GBASE-T device with	a single cablir	ng interface for both the
No need for capitals	in Link Section.				the' before data	а.		
SuggestedRemedy				Suggested	<i>Remedy</i> the' before data	-		
Decapitalize.								
Proposed Response PROPOSED ACCER	Response Status W			Proposed F PROPO	COSED ACCEP	Response Status W T.		
	D 100	1.00	"	C/ 145	SC 145.1.3	P 105	L 31	# r01-131
C/ 145 SC 145.1	P103	L 22	# r01-128	Yseboodt, I	Lennart	Philips Lighting		
Yseboodt, Lennart	Philips Lighting			Comment 7	Туре Е	Comment Status D		Editorial
Comment Type E "Those MAUs are de Clause 55, and Clau	Comment Status D efined Clause 14 and the PHYs de se 126."	fined in Claus	<i>Editorial</i> e 25, Clause 40,	from th	e PSE Type ar	system parameters. The Nomina nd the number of powered pairs. se sense to swap the order of the	0	nt per pair is derived
Not English.				Suggested	Remedy			
SuggestedRemedy				Swap p	position of colu	mns 2 and 3 in Table 145-1.		
Change as follows:	fined **in** Clause 14 and the PF 5. and Clause 126."	IYs **are** del	fined in Clause 25,	Proposed F PROP	Response OSED ACCEP ⁻	Response Status W T.		
Proposed Response	Response Status W			OOS				
PROPOSED ACCER	1							
	ired ER/editorial required GR/ge dispatched A/accepted R/rejectent nt ID			5	U/unsatisfied		t ID r01-131	Page 33 of 123 10/31/2017 10:34

C/ 145 SC 145.1.3 Yseboodt, Lennart	P 106 Philips Lighting	L 28	# r01-132	Cl 145 SC Yseboodt, Lenna	145.2 rt	P 107 Philips Lighting	L18	# r01-134
When referring to dete When referring to sign signature PD, or PD si The draft contains 12 i	Comment Status D acconsistencies in the word 'sign action, we should talk about "P ature configuration, we should ignature configuration". instances of the ambiguous "P	nature'. D detection sigr ⊨either say "sino D signature".	gle-signature PD, dual-	SuggestedReme	<i>dy</i> lectrical sp <i>nse</i>	Comment Status D becifications that apply to the Pa becifications that apply to the Pa Response Status W		
signature has not yet b	dual- signature PD, when ope been identified, V PSE is meas negative conductor of the corr	sured between a	any positive conductor	C/ 145 SC Yseboodt, Lenna	145.2.1 rt	P107 Philips Lighting	L 28	# <u>r01-135</u>
SuggestedRemedy "When connected to a signature **configurati	dual- signature PD, when ope on** not yet been identified, V he pairset and any negative co re." Response Status W	PSE is measur	ed between any	requirements Rather than	E could be s) when it is open that c	Comment Status D nt." reconfigured between Type 3 a s in the IDLE/DISABLED state. can of worms, how about we jus ntences that causes more troub	st remove this	text.
PROPOSED ACCEPT	,			SuggestedReme Remove quo	dy			
C/ 145 SC 145.1.4 Yseboodt, Lennart	P 106 Philips Lighting	L 34	# <u>r01-133</u>	Proposed Respo PROPOSED		Response Status W		
	Comment Status D peration requires Class D, or b dditional requirement that the							
Comment i-48 against Redundant reference t	D3.0 attempted to fix this, but to Type.	misquoted the	draft.					
	bling as specified in ISO/IEC 1 hannel DC loop resistance is 2 in this Clause."							
operation as specified								

P 107 Philips Lighting	L 30	# r01-136	C/ 145 SC 145.2.5. Yseboodt, Lennart	1 P116 Philips Lightir	L 26 ng	# r01-138
s we have changed Table entry 'Optional' and 'Yes' upported" ==> requires a es for "Range of maximur res for changes, the head by "No" naximum Class supporte 4" by "1 to 4" 6" by "1 to 6" by "7 to 8"	==> this overlag PhD in subtles n Class support ling row counts d" by "Highest (os. standards language red" is wrong per the as row 0.	When referring to dete When referring to sign signature PD, or PD s The draft contains 12 "If a PSE performing of complete a second de attempt. This allows a an Alternative B PSE signature." SuggestedRemedy Change as follows: "If a PSE performing of signature, it should co the first detection atte detection cycle prior to	ection, we should talk about "F hature configuration, we should ignature configuration". instances of the ambiguous "f detection using Alternative A c etection in less than T dbo after n Alternative A PSE to complet present on the same link sect detection using Alternative A c implete a second detection in mpt. This allows an Alternative o an Alternative B PSE preser	D detection sig d either say "sin PD signature". detects an invalid er the beginning ete a successful ion that may hav detects an invalid less than T dbo e A PSE to com	gle-signature PD, dual- d signature, it should of the first detection detection cycle prior to ve caused the invalid
oonse Status W			Proposed Response PROPOSED ACCEP OOS	Response Status W T.		
P 115 Philips Lighting	L 5	# r01-137	C/ 145 SC 145.2.5. Yseboodt, Lennart	-	L 51	# <u>r01-139</u>
Alternatives A and Altern d' as is done in the PD se Alternative A and Altern	ection.	Editorial	This sentence is to be PSE statediagram. SuggestedRemedy Remove this sentence statediagram. (Wait for other comme Proposed Response	e removed when the inrush sta e when the inrush statediagrar ent and revisit if adopted). <i>Response Status</i> W	atediagrams are	included in the top level
	nment Status D s we have changed Table entry 'Optional' and 'Yes' supported" ==> requires a es for "Range of maximur tes for changes, the head by "No" maximum Class supporte 4" by "1 to 4" 6" by "1 to 4" 6" by "1 to 6" by "7 to 8" entical content where app boonse Status W <u>P115</u> Philips Lighting mment Status D Alternatives A and Altern d' as is done in the PD se	<i>nment Status</i> D s we have changed Table 145-2, and it is entry 'Optional' and 'Yes' ==> this overlap upported" ==> requires a PhD in subtle s es for "Range of maximum Class support tes for changes, the heading row counts by "No" naximum Class supported" by "Highest O 4" by "1 to 4" 6" by "1 to 6" by "7 to 8" entical content where appropriate. <i>ponse Status</i> W P115 L5 Philips Lighting <i>nment Status</i> D Alternatives A and Alternative B." d' as is done in the PD section. 4 Alternative A and Alternative B."	<i>PSE Types</i> is we have changed Table 145-2, and it is STILL wrong and entry 'Optional' and 'Yes' ==> this overlaps. supported" ==> requires a PhD in subtle standards language as for "Range of maximum Class supported" is wrong per the tes for changes, the heading row counts as row 0. by "No" maximum Class supported" by "Highest Class supported" 4" by "1 to 4" 6" by "1 to 6" by "7 to 8" entical content where appropriate. bornse Status W $M = \frac{P15 L5 \# \text{[not-137]}}{\text{Philips Lighting}}$ mment Status D Editorial Alternatives A and Alternative B."	Imment Status DPSE Typesis we have changed Table 145-2, and it is STILL wrong andComment TypeERis we have changed Table 145-2, and it is STILL wrong andTOPIC:SIGNATURE These comments fix it When referring to sign signature PD, or PD is signature PD, or PD is signature PD, or PD is some status BTOPIC:SIGNATURE These comments fix it When referring to sign signature PD, or PD is signature PD, or PD is the draft contains 12when effering to sign signature PD, or PD is signature PD, or PD is the draft contains 12when effering to sign signature PD, or PD is signature PD, or PD is signature.when effering to signature PD, or PD is signature PD, or PD is signature PD, or PD is signature.when effering to signature PD, or PD is signature.when effering to signature PD, or PD is signature.when effering to signature PD, or PD is signature.when effering to signature.when effering to signature. <td>mment Status D PSE Types s we have changed Table 145-2, and it is STILL wrong and TOPIC:SIGNATURE entry 'Optional' and 'Yes' ==> this overlaps. TOPIC:SIGNATURE upported" ==> requires a PhD in subtle standards language ToPIC:SIGNATURE es for "Range of maximum Class supported" is wrong per the The draft contains 12 instances of the ambiguous " tes for changes, the heading row counts as row 0. SuggestedRemedy tes for changes, the heading row counts as row 0. SuggestedRemedy oby "No" Alternative A of by "Highest Class supported" "If a PSE performing detection using Alternative A of 6" by "1 to 4" 6" by "1 to 6" by "7 to 8" SuggestedRemedy change as follows: "If a PSE performing detection using Alternative A of 6" by "1 to 6" PSE to complete a second detection in the first detection using Alternative A of 6" by "1 to 6" by "7 to 8" Content Type E Comment Type E Comment Type E entical content where appropriate. When referring to complete a second detection using Alternative A of 25E present on the same link sect signature." P115 L5 # [r01-137] OOS C1 145 SC 145.2.5.1 P116 Yseboodt, Lennart Philips Lighting "Monintoring o inrush is described by the state diagram."<td>mment Status D PSE Types s we have changed Table 145-2, and it is STILL wrong and Comment Type ER Comment Status D entry 'Optional' and 'Yes' ==> this overlaps. upported" ==> requires a PhD in subtle standards language TOPIC:SIGNATURE entry 'Optional' and 'Yes' ==> this overlaps. upported" ==> requires a PhD in subtle standards language These comments fix inconsistencies in the word 'signature'. s of "Range of maximum Class supported" is wrong per the The draft contains 12 instances of the ambiguous "PD signature". org "No" The account where appropriate. The draft contains 12 instances of the ambiguous "PD signature". by "1 to 4" The draft contains 12 instances of the ambiguous "PD signature". The draft contains 12 instances of the ambiguous "PD signature". by "1 to 4" The draft contains 12 instances of the ambiguous "PD signature". The draft contains 12 instances of the ambiguous "PD signature". by "1 to 4" The draft contains 12 instances of the ambiguous "PD signature." "If a PSE performing detection using Alternative A detects an invalim signature." by "1 to 6" by '1 to 6" by '1 to 6" The sectorn was a cond detection in less than T dbo the first detection as anternative B PSE present on the same link section the same link section the same link we condition the same link we condition the same link we condition the same link we condite contone signature."</td></td>	mment Status D PSE Types s we have changed Table 145-2, and it is STILL wrong and TOPIC:SIGNATURE entry 'Optional' and 'Yes' ==> this overlaps. TOPIC:SIGNATURE upported" ==> requires a PhD in subtle standards language ToPIC:SIGNATURE es for "Range of maximum Class supported" is wrong per the The draft contains 12 instances of the ambiguous " tes for changes, the heading row counts as row 0. SuggestedRemedy tes for changes, the heading row counts as row 0. SuggestedRemedy oby "No" Alternative A of by "Highest Class supported" "If a PSE performing detection using Alternative A of 6" by "1 to 4" 6" by "1 to 6" by "7 to 8" SuggestedRemedy change as follows: "If a PSE performing detection using Alternative A of 6" by "1 to 6" PSE to complete a second detection in the first detection using Alternative A of 6" by "1 to 6" by "7 to 8" Content Type E Comment Type E Comment Type E entical content where appropriate. When referring to complete a second detection using Alternative A of 25E present on the same link sect signature." P115 L5 # [r01-137] OOS C1 145 SC 145.2.5.1 P116 Yseboodt, Lennart Philips Lighting "Monintoring o inrush is described by the state diagram." <td>mment Status D PSE Types s we have changed Table 145-2, and it is STILL wrong and Comment Type ER Comment Status D entry 'Optional' and 'Yes' ==> this overlaps. upported" ==> requires a PhD in subtle standards language TOPIC:SIGNATURE entry 'Optional' and 'Yes' ==> this overlaps. upported" ==> requires a PhD in subtle standards language These comments fix inconsistencies in the word 'signature'. s of "Range of maximum Class supported" is wrong per the The draft contains 12 instances of the ambiguous "PD signature". org "No" The account where appropriate. The draft contains 12 instances of the ambiguous "PD signature". by "1 to 4" The draft contains 12 instances of the ambiguous "PD signature". The draft contains 12 instances of the ambiguous "PD signature". by "1 to 4" The draft contains 12 instances of the ambiguous "PD signature". The draft contains 12 instances of the ambiguous "PD signature". by "1 to 4" The draft contains 12 instances of the ambiguous "PD signature." "If a PSE performing detection using Alternative A detects an invalim signature." by "1 to 6" by '1 to 6" by '1 to 6" The sectorn was a cond detection in less than T dbo the first detection as anternative B PSE present on the same link section the same link section the same link we condition the same link we condition the same link we condition the same link we condite contone signature."</td>	mment Status D PSE Types s we have changed Table 145-2, and it is STILL wrong and Comment Type ER Comment Status D entry 'Optional' and 'Yes' ==> this overlaps. upported" ==> requires a PhD in subtle standards language TOPIC:SIGNATURE entry 'Optional' and 'Yes' ==> this overlaps. upported" ==> requires a PhD in subtle standards language These comments fix inconsistencies in the word 'signature'. s of "Range of maximum Class supported" is wrong per the The draft contains 12 instances of the ambiguous "PD signature". org "No" The account where appropriate. The draft contains 12 instances of the ambiguous "PD signature". by "1 to 4" The draft contains 12 instances of the ambiguous "PD signature". The draft contains 12 instances of the ambiguous "PD signature". by "1 to 4" The draft contains 12 instances of the ambiguous "PD signature". The draft contains 12 instances of the ambiguous "PD signature". by "1 to 4" The draft contains 12 instances of the ambiguous "PD signature." "If a PSE performing detection using Alternative A detects an invalim signature." by "1 to 6" by '1 to 6" by '1 to 6" The sectorn was a cond detection in less than T dbo the first detection as anternative B PSE present on the same link section the same link section the same link we condition the same link we condition the same link we condition the same link we condite contone signature."

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

Cl 145 SC Yseboodt, Lennar	145.2.5.2	P 117 Philips Lightir	L1	# r01-140	C/ 145 Yseboodt,	SC 145.2.5.3		117 ps Lightin	L 49	# r01-141	
Comment Type	TR	Comment Status X	ig	Pres: Yseboodt6	Comment		Comment Statu		g	PSE SL	
Our state diagrams are inordinately complex, with a very large number of variables (current count 163 for the PSE). Given that our state diagrams mutated out of the Clause 33 state diagrams, we have low consistency in our variable descriptions. Specifically, it is unclear what the rules are pertaining to each variable: - may it be set externally ? - only in IDLE, or at any time ? - is it a state diagram internal variable ? - is it a variable that must be set according to certain rules (eg. mps_valid) ?					A bunch of descriptive text was added after CC_DET_SEQ: "For a single-signature PD, parallel detection means that detection on both pairsets is done within the T det time period. For a dual-signature PD, parallel detection means that detection on both pairsets is done within the same T det time period. For a single-signature PD, staggered detection means that detection on both pairsets is done in different T det cycles. For a dual-signature PD, parallel detection means that detection both pairsets is done in different T det cycles."						
alt_pri: A vari alt_pwrd_pri: autoclass_en class_4PID_r det_once_se MirroredPDA mps_valid: Th set per requir If we don't sp anything. SuggestedRemed	les: A variable able used to A variable able: A cor mult_events c: This vari utoclassRe his variable ements] ecify the 'u dy odt_06_011	don't help. used to coordinate [this c o select [this is a config v that controls [also reserve trol variable indicating [co s_pri: A variable indicating able indicates [reserved f quest: A control variable ou indicates the presence or a sage rules' of variables, the 7_variablerules.pdf Response Status W	rariable] ed for the state of onfiguration] . [configuration] or state diagram ttput [reserved absence of a val	liagram]] for state diagram] id MPS [mandatory	to kee If yes, - last s - That same. - Is the revers Descri If we'rn precis allowe is doin In fact to use	p it ? the following iss sentence seems means the defin ere a difference l ed ? ptive text like thi e worried about ' ely at the same t d to be called, a g it's thing), as l , as we discover	to want to say 'stag ition for staggered of between the first two s does NOTHING te parallel detection' be ime, I would offer the nd wait around doin, ong as it meets the ed, the functions MU	gered dete letection is echnically. eing interp at a do_d g nothing f Tdet timin JST be ab	ection' rather than s the same for sing es ? If yes it feels preted as the actua etection_xxx funct for a while, (eg. wh g. le to wait in order	parallel detection. gle and dual is the s like it should be al detection happining	
TFTD						SuggestedRemedy					
OOS					Optior	1: remove quot	ed text.				
WFP				Option 2: [my suggestion based on some guess work] Replace by: "Parallel detection refers to detection on both pairsets being performed in the same Tdet time period. Staggered detection refers to detection on both pairsets being performed in a different Tde cycle."							
					Proposed		Response Status	w			
					PROP	OSED ACCEPT	IN PRINCIPLE.				
					Replace by: "Parallel detection refers to detection on both pairsets being performed in the same Tdet time period.						
TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/ge								Comme	ent ID r01-141	Page 36 of 12	

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

Comment ID r01-141

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Staggered detection refers to detection on both pairsets being performed in a different Tdet cycle."

C/ 145	SC 145.2	.5.4	P118	L 31	# r01-142
Yseboodt,	Lennart		Philips Lighti	ng	
Comment	Type TR	Comme	ent Status X		Altpwra
T "' poweri a	The PSE has ing the Prima nd	inition of alt_p detected, clas ry Alternative.	"	wer a PD on the	Primary Alternative, is Secondary Alternative."
С	ther comme	nts fix the edito	orial issues with th	nese sentences.	
We dis	scussed this	at the last mee	eting and I feel we	did not end up w	vith a good solution.
These	variables' "T	RUE" descript		viour that (should	does or represents. d have) happened in the
If we lo	ook at how th	ese variables	are actually used	the definition rea	ally is very simple:
			power to the XYZ		
Suggested	lRemedy				
	ce quoted ser E: The circu		s operating voltag	e to the Primary	Alternative is disabled."
	: The circuit	y that applies	operating voltage	to the Primary A	Iternative is enabled."
And th	e same for S	econdary.			
	Posnonso	Pospon	-		
Proposed	Response	Respon	se Status W		

C/ 145	SC 145.2.5.4	P118	L 31	# r01-143
Yseboodt,	Lennart	Philips Lighting	9	
"The P	le alt_pwrd_pri, T SE has detected,	classified, and will power a F	PD on the Prim	<i>Altpwrd</i> nary Alternative, is
poweri	ing the Primary Al	ternative."		
Missin	g 'or'.			
	2	classified, and will power a F ternative."	PD on the Prim	ary Alternative, **or** is
Ignore	if comment mark	ed ALT_PWRD is accepted.		
Proposed I TFTD	Response	Response Status W		
waiting	g on 142			
C/ 145	SC 145.2.5.4	P119	L 34	# r01-144
Yseboodt,	Lennart	Philips Lighting	9	
Comment	Туре Е	Comment Status D		Editorial
		s whether a 4-pair PSE has c second Alternative."	completed dete	ction on a first
Descri	ption differs from	how 'both_neither' and 'only_	one' are descr	ibed.
Suggested	Remedy	-		
	able that indicates	s whether a 4-pair PSE has c ither or both Alternatives."	completed dete	ction on one and only
Proposed I	Response	Response Status W		
PROP	OSED ACCEPT I	N PRINCIPLE.		
	able that indicates	s whether a 4-pair PSE has c PSE has completed detection		

C/ 145 SC 145.2.5.4 Yseboodt, Lennart	P118 Philips Lighting	L 38	# r01-145	C/ 145 Yseboodt, I	SC 145.2. _ennart	5.4	P119 Philips Lighting	L 40 g	# <u>r01-147</u>
Comment Type E	Comment Status X		Altpwrd	Comment 7	Гуре Е	Co	mment Status D		Editoria
Variable alt_pwrd_sec, "The PSE has detected	, TRUE: d, classified, and will power a PE) on the Seco	ondary Alternative."	"A varia	able indicatin	g the stat	e of the PD 4PID bit in t	the 'power type	/source/priority field'"
Dees not match Drines	m. deficition		-	Wrong	field quotatic	on.			
Does not match Prima	ry definition.			Suggestedl	Remedy				
SuggestedRemedy				Change					la avera e la via vite d'Ala della
Replace by: "The PSF has det	tected, classified, and will power	a PD on the	Primary Alternative, or			0	e of the PD 4PID bit in t	the Power type	/source/priority field
is powering the Second				Proposed F PROPC	Response DSED ACCE		ponse Status W		
Ignore if commen	t marked ALT_PWRD is accepted	ed.							
Proposed Response TFTD	Response Status W								
waiting on 142									
C/ 145 SC 145.2.5.4	<i>P</i> 118	L 38	# r01-146						
rseboodt, Lennart	Philips Lighting								
Comment Type TR	Comment Status X		Altpwrd						
Variable alt_pwrd_sec, "The PSE has detected	, TRUE: d, classified, and will power a PE	on the Seco	ondary Alternative."						
Missing the bit where if	t is already powering the Second	lary.							
SuggestedRemedy									
"The PSE has detected is powering the Second	d, classified, and will power a PE dary Alternative**."	on the Seco	ondary Alternative**, or						
Proposed Response	Response Status W								
TFTD									
waiting on 142									

C/ 145 Yseboodt,	SC 145.2.5.4 Lennart	P 119 Philips Lightin	L 40	# <u>r01-148</u>	C/ 145 Yseboodt,	SC 145.2.5.4 Lennart	P 121 Philips Lightir	L 22	# r01-150
Comment		Comment Status D	5	PD SD	Comment		Comment Status D	.9	Editorial
"dll_4F	PID A variable indica	ting the state of the PD 4	PID bit in the 'p	-			s incorrect formatting of the	value descriptior	
The va "0: 2-p	as defined in Table 7 Ilues are described a air power negotiatec air power negotiatec	as: J.			- pd_r	dRemedy ame fix for: eq_pwr allocated_pwr			
2. This	value description do	pes not match the definition ave a mapping to aLldpX			PROF	Response POSED ACCEPT.	Response Status W		
3. It isr	n't being set properly	/ by the DLL state diagrar	ns (for Type 3/4	this variable must be	OOS				
set to ⁻ 4. The	,	but is used as a boolean	in the PSE state	e diagram.	C/ 145	SC 145.2.5.4	P 121	L 28	# r01-151
Suggested	Remedy			-	Yseboodt,	Lennart	Philips Lightin	ng	
- Chan "FALS		ID as follows: port powering of both Mod pring of both Modes simul		sly		_class_probe: "T	Comment Status D his variable indicates if the F pwr is less than 4"	SE should deter	Editorial mine the PD requested
and du	PSE aLldpXdot3 PD aLldpXdot3l alsig mapping table) * Note: this entr	<i>t</i> to occur both in single	of pse The a dual-s	_avail_pwr. ctual behavior is f ignature. vay to fix this des	perform class probing when to further complicated by optior cription is not to mention any	_2ev and this va	ariable being used for
		IZE in Figure 145-41: "dll IZE in Figure 145-45 and			Suggestee	dRemedy			
Proposed I	- Add dll_4PID to	o the variable lists of the l	_		"This	ce first sentence variable indicates ass_probe functio	if the PSE should determine	e the PD request	ed Class via the
	OSED ACCEPT.	Response Status W			Proposed PROF	Response POSED ACCEPT.	Response Status W		
Cl 145 Yseboodt,	SC 145.2.5.4 Lennart	P 120 Philips Lightir	L 7 Ig	# r01-149	OOS				
Comment Variab	<i>, , , , , , , , , ,</i>	Comment Status D ri is listed twice (copy / pa	aste mistake).	Editorial					
Suggested Chang	•	ri on p120/line 7 to error_	condition_sec						
Proposed I PROP	Response F OSED ACCEPT.	Response Status W							
COMMENT				I T/technical E/editorial G/g NSE STATUS: O/open W/wi		d U/unsatisfied 2		ent ID r01-151	Page 39 of 123 10/31/2017 10:34

4:38 AM

					-					
C/ 145	SC 145.2.5	6 P121	L 53	# r01-152	C/ 145	SC 145.2	.5.4	P 124	L19	# r01-154
Yseboodt,	Lennart	Philips Lighti	ng		Yseboodt,	Lennart		Philips Lightin	g	
Comment	Type E	Comment Status D		Editorial	Comment	Type TR	Cor	nment Status D		PSE SD
"This v		es if the PSE will continue to o e in the event power is not ap			Wend		lass 0 for			exists as a requested
'class'	' is not a verb.				Suggested	dRemedy ge quoted tex	to "Close	2"		
Suggested	dRemedy				Chang	je quoted tex	10 01855	5.		
	ge as follows:		data at and a soudit				e_avail_pw	r_pri and pse_avail_p	wr_sec.	
perf	orm Physical La	es if the PSE will continue to only ayer classification on the Se mary Alternative."			Proposed PROP	Response POSED ACCE	'	oonse Status W		
'	Response	Response Status W			OOS					
PROP	POSED ACCEP	1.			C/ 145	SC 145.2	5.4	P 125	L 32	# r01-155
C/ 145	SC 145.2.5	4 P122	L 43	# r <u>01-153</u>	Yseboodt,	Lennart		Philips Lightin	g	
seboodt,	Lennart	Philips Lighti	ng		Comment	Type ER	Cor	nment Status D		Editorial
Comment	Туре Е	Comment Status D		Editorial		C:SIGNATUR	E			
		ction of the results of Detection of the results of Detection 0 4PID; see 145.2.6.7."	on, Connection C	Check, Physical Layer	When	referring to c	etection, w	encies in the word 'sig e should talk about "P onfiguration, we should	D detection sig	nature". gle-signature PD, dual-
Unneo	cessary capitali	zation.			signat	ure PD, or PI	signature	configuration".	-	jio orginataro i D, adar
Suggested	dRemedy				The di	raft contains	2 instance	s of the ambiguous "P	PD signature".	
	variable is a fur	ction of the results of detection 4PID; see 145.2.6.7."	on, connection ch	eck, Physical Layer	using	Alternative A	after an inv	n when negating this v valid signature is detected ee 145.2.5.1)."		E performing detection delay it introduces
Proposed	Response	Response Status W			Suggested	dRemedy				
PROF	POSED ACCEP	Т.			"NOT using	Alternative A	after an inv	n when negating this v valid **detection** sign attempts (see 145.2.5	nature is detecte	E performing detection ad due to the delay it
					Proposed PROP	<i>Response</i> POSED ACCE	'	oonse Status W		
					OOS					

C/ 145 SC 145.2.5.4 P 125 L 42 # [r01-156] Yseboodt, Lennart Philips Lighting Philips Lighting Philips Lighting Philips Lighting	C/ 145 SC 145.2.5.4 P 127 L 9 # [r01-158] Yseboodt, Lennart Philips Lighting Philips Lighting Philips Lighting Philips Lighting						
Comment Type TR Comment Status D PSE SD pse_reset_pri: "Controls the resetting of the PSE state diagram on Alternative A. Condition that is TRUE until such time as the power supply for the device that contains the PSE overall state diagrams has reached the operating region. It is also TRUE when implementation-specific reasons require reset of PSE Alternative A functionality." Hard links _pri to Alternative A.	Comment Type E Comment Status D Editorial There are 5 occurances of the term "state variable" in the draft, and 8 of "the variable". Variables temp_var, temp_var_pri, and temp_var_sec refer to a 'state variable'. SuggestedRemedy Replace 'state variable' with 'variable' (3x). Proposed Response Response Status W						
SuggestedRemedy - Replace "Alternative A" with "Primary Alternative"	PROPOSED ACCEPT. <i>CI</i> 145 SC 145.2.5.5 <i>P</i> 127 <i>L</i> 40 # r01-159						
- Replace "Alternative B" with "Secondary Alternative"	Yseboodt, Lennart Philips Lighting						
Proposed Response Response Status W PROPOSED ACCEPT.	Comment Type E Comment Status D Editorial tcc2det timer: "A timer used to limit the time between Connection Check and Detection						
Cl 145 SC 145.2.5.4 P 126 L 7 # [101-157] Yseboodt, Lennart Philips Lighting Philips Lighting Comment Type T Comment Status D PSE SD "pse_ss_mode: A variable that controls whether the PSE provides power over 2 pair or 4 pair to a Close 0 to 4 single signature PD." PSE SD	when CC_DET_SEQ = 0 or CC_DET_SEQ = 3. See T cc2det in Table 145-7." Redundant capitals. SuggestedRemedy "A timer used to limit the time between connection check and detection when CC_DET_SEQ = 0 or CC_DET_SEQ = 3. See T cc2det in Table 145-7."						
pair to a Class 0 to 4 single-signature PD." This refers to assigned Class, and as such, it should be Class 1 to 4. SuggestedRemedy	Proposed Response Response Status W PROPOSED ACCEPT.						
Replace by: "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 4." Also fix the bad indenting.	OOS C/ 145 SC 145.2.5.5 P127 L 48 # r01-160						
Proposed Response Response Status W	Yseboodt, Lennart Philips Lighting						
PROPOSED ACCEPT.	Comment Type TR Comment Status D PSE SD						
OOS	tcev_timer_pri: "A timer used to limit the second and fourth class event time in Multiple- Event classification on the Primary Alternative; see T CEV in Table 145-14." That should be 'second through fourth class event time' <i>SuggestedRemedy</i> Change to: "A timer used to limit the second through fourth class event time in Multiple-						
	Event classification on the Primary Alternative; see T CEV in Table 145-14."						
	Same fix for tcev_timer_sec. <i>Proposed Response Response Status</i> PROPOSED ACCEPT.						

Cl 145 SC 145.2.5.5 Yseboodt, Lennart	P 128 Philips Lighting	L 14 g	# r01-161	C/ 145 S Yseboodt, Ler	SC 145.2.5.6 mart	P 130 Philips Lightin	L 21 g	# r01-163	
Comment Type ER TOPIC:SIGNATURE These comments fix inc When referring to detec When referring to signal signature PD, or PD sig The draft contains 12 in tdbo_timer: "A timer used dbo in Table 145-16." SuggestedRemedy Change as follows: "A timer used to regulat dbo in Table 145-16." Proposed Response	Comment Status D onsistencies in the word 'sig tion, we should talk about "P ture configuration, we should	nature'. D detection sig I either say "sin PD signature". Ietection of an i	gle-signature PD, dual- nvalid signature; see T	The function do_class_probe_pri returns the variable pd_req_pwr_pri, as does the fur do_classification_pri. A double definition needs to be kept in perfect sync or it can lead to ambiguity. It would be better simply to point to the variable than re-describe it. Case in point, the definitions of pd_req_pwr_pri in both functions has drifted apart (on Class 0, the other does not). SuggestedRemedy Replace lines 21 to 28 on page 130 with: "pd_req_pwr_pri: See 'pd_req_pwr_pri' in the function do_classification defined in 145.2.5.6." Same fix for pd_req_pwr_sec in do_classification_sec. Proposed Response Response Status W					
PROPOSED ACCEPT. OOS C/ 145 SC 145.2.5.6 Yseboodt, Lennart	P 130 Philips Lightin	L 6	# r01-162				L 30 g	# <u>r01-164</u> Editorial	
Comment Type ER The function do_class_r This variable is also def A double definition need	Comment Status D probe returns the variable pd ined in the variables section Is to be kept in perfect synce <i>t</i> to point to the variable than ge 130 by:	_req_pwr. 145.2.5.4. or it can lead to	<i>Editorial</i>	This varia A double o It would bo SuggestedRed Replace li "pd_cls_4 Same fix f Proposed Res	ble is also de definition nee e better simp <i>nedy</i> ne 30-36 on PID_pri: See or do_class_	Response Status W	145.2.5.4. or it can lead to re-describe it.	o ambiguity.	

C/ 145 SC 145.2.5.6 P 131 L 35 # [r01-165] Yseboodt, Lennart Philips Lighting Philips Lighting Philips Lighting Philips Lighting	C/ 145 SC 145.2.5.6 P 133 L 5 # r01-167 Yseboodt, Lennart Philips Lighting Philips Lighting Philips Lighting Philips Lighting					
Comment Type ER Comment Status D Editoria	Comment Type ER Comment Status D Editoria					
In do_classification_pri, variable pd_req_pwr_pri, value 5 is decribed as: "5: Class 5 (pd_class_sig_pri will have a value of 4 for the first two class events and a value of 3 for any subsequent class events.)" We have removed this description everywhere else, this is a leftover. <i>SuggestedRemedy</i>	TOPIC:SIGNATURE These comments fix inconsistencies in the word 'signature'. When referring to detection, we should talk about "PD detection signature". When referring to signature configuration, we should either say "single-signature PD, dual signature PD, or PD signature configuration". The draft contains 12 instances of the ambiguous "PD signature".					
Remove quoted text here and also in do_classification_sec.	There are inconsistencies in the way the values for do_detect_pri/sec are described:					
Proposed Response Response Status W PROPOSED ACCEPT.	"- open_circuit: The PSE has detected an open circuit. - valid: The PSE has detected a valid PD signature. - invalid: Neither open circuit nor valid PD detection signature has been found."					
OOS	SuggestedRemedy					
Cl 145 SC 145.2.5.6 P 132 L 43 # r01-166 Yseboodt, Lennart Philips Lighting Philips Lighting Editorial Comment Type ER Comment Status D Editorial	Replace by: "- open_circuit: The PSE has detected an open circuit. - valid: The PSE has detected a valid PD **detection** signature. - invalid: Neither **an** open circuit nor **a** valid PD detection signature has been found."					
TOPIC:SIGNATURE	Apply the same fix for do_detect_sec.					
These comments fix inconsistencies in the word 'signature'. When referring to detection, we should talk about "PD detection signature". When referring to signature configuration, we should either say "single-signature PD, dual- signature PD, or PD signature configuration". The draft contains 12 instances of the ambiguous "PD signature".	Proposed Response Response Status W PROPOSED ACCEPT. OOS					
"sig_type: This variable indicates the Type of PD signature connected to the PI, with respect to 4-pair operation."	Cl 145 SC 145.2.5.6 P 133 L 25 # r01-168 Yseboodt, Lennart Philips Lighting Philips Lighting Philips Lighting Philips Lighting					
and "invalid: Neither a single-signature PD nor a dual-signature PD connection check signature has been found. This includes an open circuit condition."	Comment Type ER Comment Status D Editoria The function do_update_pse_allocated_pwr returns the variable pse_allocated_pwr.					
SuggestedRemedy	This variable is also defined in the variables section 145.2.5.4.					
Replace by: "sig_type: This variable indicates the Type of PD signature **configuration** connected to	A double definition needs to be kept in perfect sync or it can lead to ambiguity. It would be better simply to point to the variable than re-describe it.					
the PI, with respect to 4-pair operation." "invalid: Neither a single-signature nor a dual-signature signature configuration has been found. This includes an open circuit condition."	SuggestedRemedy Replace line 29-38 by:					
Proposed Response Response Status W	"pse_allocated_pwr: See 'pse_allocated_pwr' in 145.2.5.4."					
PROPOSED ACCEPT.	Proposed Response Response Status W					
oos	PROPOSED ACCEPT.					

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

C/ 145 SC	345.2.5.6	P133	L 43	# r01-169	C/ 145	SC 145.2.5.	7	P 135	L 6	# r01-171
Yseboodt, Lenna	art	Philips Lighting			Yseboodt, L	ennart	I	Philips Lighting		
Comment Type	ER	Comment Status D		Editorial	Comment T	ype TR	Comment St	tatus D		PSE SD
This variable A double de It would be b SuggestedReme Replace line	e is also retu finition need petter simply edy e 29-38 on p		_pri function. r it can lead to re-describe it.	ambiguity.	diagran For dua While p should forces p This co	n. I-signature the d_4pair_cand set it correctly d_4pair_cand mment assum	e value is set, how is never reference to match with the to be False when es that another c	vever for single- ed by the single e 4PID text in 14 n a single-sig is omment will ma	signature it is sig state dia 45.2.6.7. The connected, w ke changes to	ngram (it is implicit), we current state diagram which is wrong. o the SISM state
		See 'pse_allocated_pwr_pri' fined in 145.2.5.6."	returned by th	e function			ey no longer cont e pd_4pair_cand			/_PRI state (which
Same fix for	pse_allocat	ted_pwr_sec.			SuggestedF	Remedy				
Proposed Respo PROPOSEE OOS	onse	Response Status W			- add th "IF (pse					
C/ 145 SC	145.2.5.7	P135	L 6	# r01-170	Proposed R	esponse	Response St	atus W		
Yseboodt, Lenna	art	Philips Lighting			PROPC	SED ACCEP	T IN PRINCIPLE.			
Comment Type	TR	Comment Status D		PSE SD	OOS					
through the s SuggestedReme	state diagra	ole of variables / timers in the m as indicated by simulation.		allow multiple passes	The onl	y way to get to		ON in the SS sta	ate diagram is	based on sig_type. s to have a SS result,
Add in state "stop tcc2de "stop tdet2de "sig_pri = FA "sig_sec = F	et_timer" et_timer" ALSE"	following statements:			- add "p - add th "IF (sig_	e following to _type = single)	= False" to IDLE CLASSIFICATIO THEN			
Proposed Respo	onse	Response Status W			pd_4 END"	pair_cand = T	rue			
PROPOSED	ACCEPT.									
OOS										

IEEE P802.3bt D3.1 4-Pair PoE 1st Sponsor recirculation ballot comments C/ 145 SC 145.2.5.7 P135 L13 C/ 145 SC 145.2.5.7 P137 L 33 # r01-174 # r01-172 Yseboodt, Lennart Philips Lighting Philips Lighting Yseboodt, Lennart Comment Type TR Comment Status X Pres: Yseboodt6 Comment Type TR Comment Status D PSE SD In IDLE we have "alt pri = user defined". The value 'user defined' is not a valid value for There is a cornercase bug in single-signature classification. If: alt pri. This is the only instance in the state diagram where we do this. - pse alternative = a or b (so, 2-pair PSE) We're trying to textually describe that this variable may/must be set by the "user". - option 2ev = True (PSE only wants to do 2 class events when it has class 4 power) - pse allocated pwr > 4 (a bit strange, but it is an allowed permutation...) SuggestedRemedy Remove this ELSE statement. Then the branch logic out of CLASS EV2 is wrong and it makes a third class Setting alt pri is done 'outside' of the state diagram, and use of this variable will be clarified event even though option 2ev is set. by yseboodt_06_0117_variablerules.pdf Also, we should reset allocated power to zero in IDLE. Proposed Response Response Status W TFTD SuggestedRemedy - Change logic from CLASS EV2 to MARK EV LAST to: OOS "tcev_timer_done * option_2ev * ((pse_avail_pwr = 4) + (pse_alternative != both)) * (pd class sig = 4)"WFP - Change logic from CLASS_EV2 to MARK_EV2 to: C/ 145 SC 145.2.5.7 P136 L 36 # r01-173 "tcev timer done * (pd class sig = 4) * (((pse avail pwr > 4) * (pse alternative = both)) + !option 2ev)" Yseboodt. Lennart Philips Lighting Editorial Comment Type E Comment Status D - Add to IDLE There are spaces before "(det_temp= ..." "pse allocated pwr = 0" Proposed Response Response Status W SuggestedRemedy PROPOSED ACCEPT. Remove spaces. Proposed Response Response Status W C/ 145 SC 145.2.5.7 P140 L 5 # r01-175 PROPOSED ACCEPT. Yseboodt, Lennart Philips Lighting 005 Comment Type E Comment Status D Editorial State "SEMI PWRON PRI" and "SEMI PWRON SEC" state name box badly drawn. For this reason the variable name "!power available" in the exit branch is not shown completely. SuggestedRemedy Redraw state and correct variable name. Proposed Response Response Status W PROPOSED ACCEPT.

C/ 145 SC 145.2.5.7 Yseboodt, Lennart	7 P140 Philips Lightir	L 5	# r01-176	C/ 145 Yseboodt, Le	SC 145.2.5.7	P148 Philips Lighting	L11	# r01-178
which SISM machine t The states SEMI_PWI part of the top level sta SuggestedRemedy - Rename SEMI_PWF	RON_PRI and SEMI_PWROI ate diagram. RON_PRI to PRIMARY_SEMI RON_SEC to SECONDARY_S	N_SEC are an e _PWRON		"ted_time (pd_req_ pd_4pair Has <i>SuggestedRe</i> Remove <i>Proposed Re</i>	CLASS_EVAL_ er_sec_done * to pwr_sec <= pse _cand)" s extra closing pa emedy final closing par	Comment Status D SEC to POWER_UP_SEC: ed_timer_done * a_avail_pwr_sec) * aren. SYNTAX ERROR. ren. Response Status W		Editoria
This corrupts the "sig_ Also variable "pd_4pai SuggestedRemedy		evaluated consta gnature pd dete		Cl 145 Yseboodt, Le Comment Ty The inrus They've j asserted SuggestedRe - Remov - in POW - in POW - in POW - in POW - Remov Proposed Re PROPOS OOS - Remov - in POW - in POW	SC 145.2.5.7 ennart pe T sh monitor state just become a c emedy e Figure 145-19 (ER_UP, after 'a (ER_UP_RI, a (ER_UP_SEC, a e last sentence esponse SED ACCEPT II e Figure 145-19 (ER_UP, after 'a (ER_UP, after 'a (ER_UP, after 'a (ER_UP_RI, a (ER_UP_SEC, a e last sentence	alt_pwrd_pri <= TRUE', add 'st alt_pwrd_sec <= TRUE', add 'st add 'start tinrush_pri_timer' add 'start tinrush_sec_timer' of paragraph at page 116, line <i>Response Status</i> W N PRINCIPLE. alt_pwrd_pri <= TRUE', add 'st alt_pwrd_sec <= TRUE', add 'st dd 'start tinrush_pri_timer' add 'start tinrush_sec_timer' of paragraph at page 116, line e two timers to the IDLE state(:	art tinrush_pr start tinrush_s 51. art tinrush_s start tinrush_s	en alt_pwrd_pri/sec is i_timer' :ec_timer' iec_timer'

Comment ID r01-179

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C/ 145 SC 145.2.6 Yseboodt, Lennart	P 150 Philips Lighting	L 28	# r01-180	C/ 145 Yseboodt, Ler	SC 145.2.6.4	P 153 Philips Lightin	L 17 ng	# r01-182
Comment Type ER TOPIC:SIGNATURE These comments fix in When referring to dete When referring to sign signature PD, or PD si The draft contains 12 i "The PSE is not require The period of time whe implementation depend A PSE detecting an inv other Alternative, and i SuggestedRemedy Change as follows: "The PSE is not require	Comment Status D consistencies in the word 'sign ction, we should talk about "PD ature configuration, we should gnature configuration". nstances of the ambiguous "PD ed to continuously probe to det en a PSE is not attempting to de dent. valid PD signature on either Alt f valid may perform classification ed to continuously probe to det en a PSE is not attempting to de	ature'. D detection sig either say "sin D signature". tect a PD signa etect a PD sig erenative may p on on that pair	gle-signature PD, dual- ature. nature is perform detection on the set."	Comment Typ TOPIC:SI These cou When refe signature The draft "A PSE sl specified SuggestedRet Change a "A PSE sl characteri	e ER GNATURE mments fix inco erring to detecti erring to signatu PD, or PD sign contains 12 ins hall accept as a in Table 145-9. medy s follows: hall accept as a stics specified	Comment Status D onsistencies in the word 'sig on, we should talk about "P ure configuration, we should ature configuration". tances of the ambiguous "F valid PD signature a pairse	nature'. PD detection signa d either say "singl PD signature". et with all of the c	le-signature PD, dual- characteristics
	valid PD **detection** signature Alternative, and if valid may pe <i>Response Status</i> W			Yseboodt, Ler <i>Comment Typ</i> TOPIC:SI These con	e ER GNATURE mments fix inco	P 153 Philips Lightin Comment Status D onsistencies in the word 'sig on, we should talk about "P	nature'.	# <u>r01-183</u> <i>Editorial</i> ature".
C/ 145 SC 145.2.6.1 /seboodt, Lennart	P 150 Philips Lighting	L 37	# r01-181	When refe signature	erring to signatu PD, or PD sign	ure configuration, we should ature configuration". tances of the ambiguous "F	d either say "singl	
the classification of a F single-signature PD co While I certainly agree	Comment Status X power on both pairsets shall cc PD as defined in 145.2.7 to dete infiguration, a dual-signature PI with this requirement, how a ve the result of cc-check at the	ermine if the P D configuration are we going to	SE is connected to a n, or neither."	the pairse SuggestedRe Change a "The PSE signature,	t exhibits any o medy s follows: shall reject a p	airset within a link section a f the following characteristic pairset within a link section a set exhibits any of the follow	cs as defined in 1 as having an inva	Table 145-10:" alid **detection**
	nt such that it can be tested or edy, but I don't have a solution		w to do this].	145-10:" Proposed Res PROPOS	sponse ED ACCEPT.	Response Status W		

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

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C/ 145 SC 145.2.6.5 P 153 L 35 Hilips Lighting Yseboodt, Lennart Philips Lighting P	# r01-184	Cl 145 SC Yseboodt, Lennar	145.2.6.7 rt	P 154 Philips Lighting	L 20	# r01-185		
Comment Type ER Comment Status D	Editorial	Comment Type	TR	Comment Status D		4PID		
"The PSE shall reject a pairset within a link section as having an invalid sign the pairset exhibits any of the following characteristics as defined in Table 1 For comparison, this is the text for valid: "A PSE shall accept as a valid PD signature a pairset with all of the charact specified in Table 145-9."	145-10:"	pairsets prior to as 4PID. 4 pairsets, the r and the result	to applying PID shall b result of co ts of the Po	whether an attached PD is a c g operating voltage to both pa be determined as a logical fun- pronection check as described ower via MDI TLV described ir , defined in 145.2.5.4.	rsets. This de ction of the de in 145.2.6.1, r	termination is referred tection state of both nutual identification,		
What is "a pairset within a link section" ? This strange construction also exists in Clause 33. The PSE is not in the business of rejecting pairsets or link sections Let's try to mimick the 'valid' text which makes at least some sense.		A PSE shall r signature on l No less than	not apply 4 both pairse four shalls	-pair power unless the PSE has and one or more of the follow	owing conditic			
SuggestedRemedy				the shall is to determine some e because unclear (again a de		ithout specifics on what		
Replace as follows: "The PSE shall reject as an invalid detection signature, a pairset which exhi following characteristics as defined in Table 145-10:"	ibits any of the	is pass/fail) Third shall : contradicted by the state diagram (but we will fix that) AND untestable. Fourth shall: Hurray! A valid shall statement.						
Proposed Response Response Status W				the results of the Device vie M		had in 70.0.01 which no		
PROPOSED ACCEPT.		,		the results of the Power via M pd_4pair_cand.	DI ILV desch	bed in 79.3.2 which ho		
OOS		signature ope	eration.	only follows this text partly, as nake state diagram changes, I		-		
		SuggestedRemed	dy					
		prior to applyi 4PID. 4PID is connection ch	ing operati a logical f neck as de	her an attached PD is a candid ng voltage to both pairsets. The function of the detection state scribed in 145.2.6.1, and muti- in 145.2.5.4, contains the res	nis determinat of both pairse al identification	ion is referred to as ts, the result of on. The variable		
				-pair power unless the PSE ha				
		Proposed Respor PROPOSED		Response Status W				

.7.1 P158 L27 Philips Lighting	# <u>r01-188</u>
Comment Status D	Editoria
n the state CLASS_EV1_LCE, CLASS_EV [.] _PRI, CLASS_EV1_LCE_SEC, CLASS_EV _4PID_SEC, ne PI or pairset VClass, subject to T LCE tirr	1_LCE_4PID_PRI, or
state" when describing capital statenames.	
5 1	
n CLASS_EV1_LCE, CLASS_EV1_AUTO,	CLASS EV1 LCE PRI,
_SEC, CLASS_EV1_LCE_4PID_PRI, or CL	ASS_EV1_LCE_4PID_SEC,
e PI or pairset VClass, subject to T LCE tim	ning specification."
6, 44, 47 and 52 remove "in the state".	
Response Status W	
EPT.	
T O D (00 ()	"
.7.2 <i>P</i> 160 <i>L</i> 10	# r01-189
Philips Lighting	
Comment Status D e minimum amount of power the PSE must a	Editoria add to P Autoclass in order
permitted.	
e minimum amount of power the PSE adds t	to P Autoclass in order to
Response Status W	
EPT.	
	Comment ID r01

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

C/ 145 SC 145.2.	7.2	P160	L 32	# r01-190	C/ 145	SC 145.2.8.1	P 163	L 43	# r01-192
Yseboodt, Lennart		Philips Lighting	g		Yseboodt, L	ennart	Philips Light	ing	
Comment Type TR	Comment	Status X		Pres: Yseboodt2	Comment T	ype TR	Comment Status D		PSE Powe
resistance and opera The current curve fit	ating conditions. s lead to excess	ive margin being	g provisioned fo		pairsets	while in a pow		-	
the July plenary) allo			JL and the meas	surements presented at		be inferred that	"POWER_ON" to the less e t this includes the SEMI_PV		
SuggestedRemedy							PDATE is a state in which n	o physical time is	s spent, we are safe to
Adopt yseboodt_02_	1117_autoclass	margin.pdf				just POWER_0			
Proposed Response	Response	Status W			SuggestedF	Remedy			
TFTD					Revert t				
OOS						that has assign while in POWI	ned Class 5 to 8 to a single- ER_ON."	signature PD sha	all apply power to both
WFP					Proposed R PROPC	esponse SED ACCEPT	Response Status W		
C/ 145 SC 145.2.	3	P 161	L 32	# r01-191		00 445 0 0 0	D462	/ 54	# -04 400
Yseboodt, Lennart		Philips Lighting	g		C/ 145	SC 145.2.8.2		L 51	# r01-193
Comment Type E	Comment	Status D		Editorial	Yseboodt, L		Philips Light	ing	
In Table 145-16 item POWER UP per the Statename is with a	assigned Class"		pairs of the sam	ne polarity during	pairs wi	PSE_diff, as de th the same po	Comment Status D efined in Table 145-16, is the larity, at no load condition, w		
SuggestedRemedy					on state	."			
Change to:					Multiple	power on state	es, do not use "the power or	i state".	
"Total output current assigned Class"	of both pairs of	the same polari	ty during POWE	=R_UP per the	SuggestedF	Remedy			
Proposed Response PROPOSED ACCEI	Response S PT.	Status W				PSE_diff, as de th the same po	efined in Table 145-16, is th larity, at no load condition, v		
					Proposed R	esponse	Response Status W		
					PROPC	SED ACCEPT			
					OOS				

There is a double period on this line (one of which subscript). "is the minimum current due to un defined in Equation (145-12)" SuggestedRemedy Fix. Proposed Response Response Status PROPOSED ACCEPT. "is the minimum current due to un in Equation (145-12)" CI 145 SC 145.2.8.5 P 164 L 23 # r01-195 Yseboodt, Lennart Philips Lighting PROPOSED ACCEPT. PROPOSED ACCEPT.			·
Comment Type E Comment Status D Editorial Comment Type ER Comment Type	ent Status D Ibalance effects a PSI		ort on a pairset as
There is a double period on this line (one of which subscript). "is the minimum current due to un defined in Equation (145-12)" SuggestedRemedy Fix. Proposed Response Response Status W PROPOSED ACCEPT. SuggestedRemedy Cl 145 SC 145.2.8.5 P164 L 23 # r01-195 Proposed Response Philips Lighting Proposed Response Response PROPOSED ACCEPT. P164 L 23 # r01-195 Proposed Response PROPOSED ACCEPT. Philips Lighting PROPOSED ACCEPT. Proposed Response Response	abalance effects a PS		ort on a pairset as
SuggestedRemedy defined in Equation (145-12)" Fix. Must no good. Proposed Response Response Status W PROPOSED ACCEPT. "is the minimum current due to un in Equation (145-12)" C/ 145 SC 145.2.8.5 P164 L 23 # r01-195 Yseboodt, Lennart Philips Lighting PROPOSED ACCEPT. PROPOSED ACCEPT.	balance effects a PS		·
SuggestedRemedy Fix. Must no good. Proposed Response Response Status W SuggestedRemedy PROPOSED ACCEPT. "is the minimum current due to un in Equation (145-12)" C/ 145 SC 145.2.8.5 P164 L 23 # r01-195 Yseboodt, Lennart Philips Lighting PROPOSED ACCEPT. Proposed Response Response		E supports or	ו a pairset as defined
Proposed Response Response Status W SuggestedRemedy PROPOSED ACCEPT. "is the minimum current due to un in Equation (145-12)" Cl 145 SC 145.2.8.5 P164 L 23 # r01-195 Proposed Response Response Yseboodt, Lennart Philips Lighting PROPOSED ACCEPT. PROPOSED ACCEPT. PROPOSED ACCEPT.		E supports or	າ a pairset as defined
PROPOSED ACCEPT. "is the minimum current due to un in Equation (145-12)" Cl 145 SC 145.2.8.5 P164 L 23 # r01-195 Yseboodt, Lennart Philips Lighting PROPOSED ACCEPT. PROPOSED ACCEPT.		E supports or	າ a pairset as defined
In Equation (145-12)" Cl 145 SC 145.2.8.5 P 164 L 23 # r01-195 Proposed Response Response Yseboodt, Lennart Philips Lighting PROPOSED ACCEPT.		E supports or	ו a pairset as defined
Yseboodt, Lennart Philips Lighting PROPOSED ACCEPT.	se Status W		
Comment Type E Comment Status D Editorial	D.400	1.00	"
"IPort-2P and IPort-2P-other are the currents on the pairs with the same polarity of the two pairsets and are defined in Equation (145-5) and in Equation (145-6)."	P 166 Philips Lighting	L 26	# r01-198
af the two pairs at a decay of a decay of the part of the part of the two pairs at a decay of the two pairs at a decay of the part of the two pairs at a decay of the part of the two pairs at a decay of the part of the part of the two pairs at a decay of the part of the part of the two pairs at a decay of the part of			
SuggestedRemedy Comment Type E Comme	ent Status D	an "Malua" da	Editorial
Change to: maximum.		III value uu	es not convey this is a
"IPort-2P and IPort-2P-other are the currents on the pairs with the same polarity and are			
defined in Equation (145-5) and in Equation (145-6)." Change column name to "Max"			
Proposed Response Response Status W Proposed Accept. Proposed Response Resp	se Status W		
PROPOSED ACCEPT. PROPOSED REJECT.			
OOS Max does not add any new inform	ation The table con	iove the value	a of lupplance 2p which
C/ 145 SC 145.2.8.5 P165 L10 # r01-196 is used in a requirement on page			
Ysehoodt Lennart Philips Lighting			
Comment Type TR Comment Status D PSE Power — A total current of ICon, defined			
"When powering a single-signature PD over 4 pairs, a PSE supports: polarity;			
- A minimum current of I Unbalance-2P over one of the pairs of the same polarity" — A minimum current of IUnbalance condition (see		•	same polarity under
The current a PSE is required to support is ICon-2P-unb, whereas IUnbalance-2P is the maximum unbalance current that occurs under worst-case conditions.			
SuggestedRemedy			
Replace I_Unbalance-2P by ICon-2P-unb in the quoted sentence.			
Proposed Response Response Status W PROPOSED ACCEPT.			

In the last cycle the values of IUnbalance-2P were increased without corresponding changes to RSource and RLoad. This leads to the 'extri unbalance margin being assigned to both the PSE and the PD. PSEs and PDs that meet their respective unbalance requirements will now exceed IUnbalance-2P when hooked up together. I suspect we need updates to RSource and RLoad. SuggestedRemedy Adopt ysebood_07_0117_unbalance.pdf Proposed Response Response Status W TFTD WFP C/ 145 SC 145.2.8.5.1 P166 L28 # [r01-200] WFP C/ 145 SC 145.2.8.5.1 P166 L28 # [r01-200] Yeboodt, Lennart Philips Lighting Comment Type ER Comment Status D Editorial Table 145-171 lists the maximum pair unbalance current in the PSE unbalance section. The value for Assigned Class 1 to 4 is "ICOn". We need a similar explanation as exists for ICon-2P-unb in Table 145-16. SuggestedRemedy Add forone to "1 to 4" that says: "Unbalance current for these assigned Classes is not restricted."	C/ 145 SC 145.2.8.5.1 P 166 L 27 # r01-199 Yseboodt, Lennart Philips Lighting	C/ 145 SC 145.2.8.5.1 P 167 L 19 # r01-201 Yseboodt, Lennart Philips Lighting Philips Lighting Philips Lighting Philips Lighting
SuggestedRemedy Adopt yesboodt_07_0117_unbalance.pdf Proposed Response Response Status WFP OOS C/1 145 SC 145.2.8.5.1 P 166 L 28 # [01-200] Yseboodt, Lennart Philips Lighting OOS Comment Type ER Comment Status D Editorial The value for Assigned Class 1 to 4 is "ICon". The value for Assigned Class 1 to 4 is "ICon". Editorial SuggestedRemedy Add forhore to "1 to 4" that says: "Unbalance current for these assigned Classes is not restricted." Response Status W Proposed Response Response Status W Replace 'allowable' by 'supported' throughout the draft. Proposed Response Response Status W PROPOSED ACCEPT. OOS Comment Type ER Comment Status D Editorial The value for Assigned Class 1 to 4 is "ICon". We need a similar explanation as exists for ICon-2P-unb in Table 145-16. SuggestedRemedy Add forhore to "1 to 4" that says: "Unbalance current for these assigned Classes is not restricted." SuggestedRemedy Proposed Response Response Status W PROPOSED ACCEPT. SuggestedRemedy Change to:	In the last cycle the values of IUnbalance-2P were increased without corresponding changes to RSource and RLoad. This leads to the 'extra' unbalance margin being assigned to both the PSE and the PD. PSEs and PDs that meet their respective unbalance requirements will now exceed	"is, given R PSE_min , the highest allowable common mode effective resistance in the powered pairs of the same polarity" 'allowable' is not the best word, what is meant is 'supported'.
Cl 145 SC 145.2.8.5.1 P 166 L 28 # r01-200 Yseboodt, Lennart Philips Lighting Editorial Comment Type ER Comment Status D Editorial Table 145-17 lists the maximum pair unbalance current in the PSE unbalance section. The value for Assigned Class 1 to 4 is "ICon". We need a similar explanation as exists for ICon-2P-unb in Table 145-16. Equation (145-14), Equation (145-15)." "Table 145-18 specifies the values of resistance used to compute Rload_min and Rload_max according to Equation (145-14). Equation (145-15)." SuggestedRemedy Add footnote to "1 to 4" that says: "Unbalance current for these assigned Classes is not restricted." Resistances is futile. Proposed Response Response Status W Table 145-18 specifies the resistance values used to compute Rload_min and Rload_max according to Equation (145-14), Equation (145-14), Equation (145-15)." PROPOSED ACCEPT. W Equation (145-14), Equation (145-15)."	SuggestedRemedy Adopt yseboodt_07_0117_unbalance.pdf Proposed Response Response Status W	Replace 'allowable' by 'supported' throughout the draft. Proposed Response Response Status W PROPOSED ACCEPT.
Philips Lighting Comment Type ER Comment Status D Editorial Table 145-17 lists the maximum pair unbalance current in the PSE unbalance section. The value for Assigned Class 1 to 4 is "ICon". We need a similar explanation as exists for ICon-2P-unb in Table 145-16. Editorial Comment Type E Comment Status D Editorial SuggestedRemedy Add footnote to "1 to 4" that says: "Unbalance current for these assigned Classes is not restricted." Editorial "Table 145-18 specifies the values of resistance used to compute Rload_min and Rload_max according to Equation (145-14), Equation (145-15)." "Values of resistance" is strange. Proposed Response Response Status W "Table 145-18 specifies the resistance values used to compute Rload_min and Rload_max according to Equation (145-14), Equation (145-15)." "Table 145-18 specifies the resistance values used to compute Rload_min and Rload_max according to Equation (145-14), Equation (145-15)."		
	Yseboodt, Lennart Philips Lighting Comment Type ER Comment Status D Editorial Table 145-17 lists the maximum pair unbalance current in the PSE unbalance section. The value for Assigned Class 1 to 4 is "ICon". We need a similar explanation as exists for ICon-2P-unb in Table 145-16. SuggestedRemedy Add footnote to "1 to 4" that says: "Unbalance current for these assigned Classes is not restricted." Response Status W	 "Table 145-18 specifies the values of resistance used to compute Rload_min and Rload_max according to Equation (145-14), Equation (145-15)." "values of resistance" is strange. Resistances is futile. SuggestedRemedy Change to: "Table 145-18 specifies the resistance values used to compute Rload_min and Rload_max according to Equation (145-14), Equation (145-15)."

C/ 145 SC 145.2.8.5.1 P 167 L 35 # [r01-203] Yseboodt, Lennart Philips Lighting Philips Lighting Philips Lighting Philips Lighting	C/ 145 SC 145.2.8.6 P 169 L 5 # r01-205 Yseboodt, Lennart Philips Lighting Philips Lighting Philips Lighting Philips Lighting
Comment Type E Comment Status D Editorial "The load resistances Rload_min and Rload_max are split into two series resistances Rload1_min and R load2_min, and Rload1_max and Rload2_max respectively, as shown in Figure 145-22, to correctly be able to set the power sink." Strange ending in last part. Editorial	Comment Type T Comment Status D PSE Inrust "PSEs that have assigned Class 5 to 8 to a single-signature PD shall reach the power on state 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."
SuggestedRemedy Change to: "The load resistances Rload_min and Rload_max are split into two series resistances Rload1_min and R load2_min, and Rload1_max and Rload2_max respectively,	This solely applies to the one and only POWER_ON state. "a power up state" is misleading as there is only one POWER_UP state, however each pairset can go independently into a 'power up' condition.
as shown in Figure 145-22, such that the power sink can be set correctly." Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. OBE by 445	SuggestedRemedy Change to: "PSEs that have assigned Class 5 to 8 to a single-signature PD shall reach POWER_ON on both pairsets within TInrush max, starting with the first pairset transitioning into power up, and where the second pairset transitions to power up anytime within this time period." Proposed Response Response Status
C/ 145 SC 145.2.8.5.1 P 167 L 36 # [r01-204] Yseboodt, Lennart Philips Lighting Phi	PROPOSED ACCEPT.
Comment Type E Comment Status D Editorial "according to Equation (145-14), Equation (145-15).The load resistances"	C/ 145 SC 145.2.8.6 P 169 L 20 # r01-206 Yseboodt, Lennart Philips Lighting Philips Lighting Philips Lighting Philips Lighting
Missing space and missing conjunction. SuggestedRemedy Replace by "according to Equation (145-14) and Equation (145-15). The load resistances" Proposed Response Response Status W PROPOSED ACCEPT.	Comment Type E Comment Status D Editor. The line depicting the IPSEIT-2P should stop at the 75ms mark in Figure 145-23, but it runs past it. SuggestedRemedy Shorten line to end at the 75ms mark. Proposed Response Response Status W

C/ 145 SC 145.2.8.6 P169	L 25	# r01-207	C/ 145	SC 145.2.8	.6 <i>P</i> 169	L 44	# r01-210
Yseboodt, Lennart Philips Lighting			Yseboodt,	Lennart	Philips Lighti	ng	
Comment Type E Comment Status D		Editorial	Comment	Туре Т	Comment Status D		PSE Inrus
"Figure 145-23Per pairset inrush transient limits"					sh and I Inrush-2P current capa exceeds 30 V. During a power		
Improper description, this Figure depicts I_PSEIT-2P limit.	which is the PS	SE inrush maximum	current	is as follows:		•	
SuggestedRemedy				an exception to be a requirem	o the shall on line 8, but it intro ent also.	oduces new mir	iimums. As such, this
Change title to "Per pairset PSE inrush maximum cur	ent limit"		The re-	quirements that	t follow are hard to parse.		
Proposed Response Response Status W			Suggested	Remedy			
PROPOSED ACCEPT IN PRINCIPLE.					ne 44-52 as follows:		
"limit" hints at implementation. This is really just the r	naximim currer	nt.		when VPSE	sh and I Inrush-2P current capa exceeds 30 V	ability as define	d in Table 145-16
			During	a power up st	ate, PSE shall support:		
Change title to "Per pairset PSE inrush maximum curr	ent"				ngle-signature PD, a minimum nA when VPSE is between 10		when VPSE is between
C/ 145 SC 145.2.8.6 P169	L 30	# r01-208	- when	powering a du	al-signature PD, a minimum I	nrush-2P of 5m	A when VPSE is
Yseboodt, Lennart Philips Lighting			betwee	en 0V and 10V	, and 60mA when VPSE is bet	ween 10V and	30V."
Comment Type TR Comment Status D		PSE Inrush	Proposed I	Response	Response Status W		
"IInrush-2P" is a range for dual-signature, thus the ma	ximum value s	hould be used.	PROP	OSED ACCEF	Т.		
SuggestedRemedy			C/ 145	SC 145.2.8	.8 P170	L8	# r01-211
Change "IInrush-2P" to "IInrush-2P max", 5 occurance	es.		Yseboodt,	Lennart	Philips Lighti	ng	
Proposed Response Response Status W			Comment	Туре Е	Comment Status D		Editoria
PROPOSED ACCEPT.					starts as follows:		
C/ 145 SC 145.2.8.6 P169	L 39	# r01-209			Figure 145-24, Equation (145- Figure 145-25, Equation (145-		
Yseboodt, Lennart Philips Lighting	L 39	# 101-209	1 01	туре 4 госа,	Figure 145-25, Equation (145-		on (145-20) apply.
Comment Type T Comment Status D		PSE Inrush	This te	ext should corr	e after the first paragraph.		
"is the maximum value of I Inrush-2P or I Inrush as de	fined in Table		Suggested	Remedy			
			Move of	dashed list to a	fter the first paragraph.		
We got rid of this dual equation for IInrush-2P and IIn	ush. Now solel	y applies to IInrush-2P.	Proposed I	Response	Response Status W		
SuggestedRemedy			PROP	OSED ACCEF	т.		
Remove "or IInrush" from quoted sentence.							
Proposed Response Response Status W							
PROPOSED ACCEPT.							

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

C/ 145 SC 145.2.8.8 Yseboodt, Lennart	P 170 Philips Lighting	L 13	# <u>r01-212</u>	C/ 145 Yseboodt, L	SC 145.2.8.9 _ennart	P 172 Philips Lightin	L 32 g	# r01-213
Comment Type E	Comment Status D		PSE Power	Comment 7	Type TR	Comment Status D		PSE Power
	ower from the PI if the PI current n Figure 145-24 and Figure 14		xceeds the "PSE	That re		3.0. which proposed a chang ged in the room, but we failed ontradiction:		
Only one of those figur	es applies to a given PSE. Ch	ange 'and' to '	or'.					
SuggestedRemedy						Off in Table 145-16 shall app / Off of a pairset with a test re		
	ower from the PI if the PI current of the PI current figure 145-24 or Figure 145		xceeds the "PSE	pairset.	In addition, it is	recommended that the pairs ien V PSE drops 1 V below the	et be discharge	d when voltage is not
Proposed Response PROPOSED ACCEPT	Response Status W				d_pri and alt_pv <= V Off max."	vrd_sec variables are cleared	(see Figure 14	5-13). T Off ends when
				Suggested	Remedy			
				Either:	nge first sentend	e to:		
				"Ťhe sp	pecification for T	Off in Table 145-16 shall app rset with a test resistor of 320		
						e "T Off starts when V PSE on alt_pwrd_sec variables are		
						ce as follows: mended that the pairset be di	scharged when	operating voltage is
				Proposed F	Response	Response Status W		
				PROPO	OSED ACCEPT	IN PRINCIPLE.		
						'T Off starts when V PSE dro nd alt_pwrd_sec variables ar		
						ce as follows: mended that the pairset be di	scharged when	operating voltage is

C/ 145 SC 145.2.8.9 Yseboodt, Lennart	P 172 Philips Lighting	L 37	# r01-214	<i>Cl</i> 145 Yseboodt,	SC 145.2.8.1 Lennart	2	L 8 ting	# r01-217
Comment Type E "TOff ends when VPSE Voff is a max. SuggestedRemedy Change to: "TOff ends when VPSE Proposed Response PROPOSED ACCEPT. OOS			PSE Power	measu PSEs i smalle We ne <i>Suggested</i> Replac "Type	4 PSEs shall not red using a slidir may source more r than 4 seconds ed a similar cons <i>Remedy</i> æ by: 4 PSEs shall not	Comment Status D source more power than F ag window with a width up than PType for up to 4 se to be used. Also this does struct as for PPeak.	to 4 seconds." econds. Text allow n't work. P Type max, as de	rs any sliding window
Cl 145 SC 145.2.8.10 Yseboodt, Lennart	D P172 Philips Lighting	L 40	# r01-215	Proposed I	5	Response Status W	ycie of 176.	
	Comment Status D Off in Table 145-16 shall apply against Draft 3.0 has not beer Response Status W			"Figure These	<i>Type</i> ER luse 145.2.10 "P e 145-17, Figure	P174 Philips Ligh <i>Comment Status</i> D SE power removal" contair 145-18, and Figure 145-19 nonitor for inrush current a	ns just one senter show the PSE m	onitor state diagrams.
the PSE is in DISABLE Also applies to BACKO	Philips Lighting Comment Status D hall be equal or less than V Off D, IDLE, or ERROR_DELAY." FF state. letection by the other PSE ?	L 44	# <u>r01-216</u> <i>PSE Power</i> in Table 145-16, when	In the I subdiv The cu 145.2. Suggested - Delet - Add a "A PSE minimu This is 145-17 Proposed I	base standard, th ided in to AC and irrent 145.2.10 as 11 (on MPS), doo <i>Remedy</i> e 145.2.10 as new first parage is required to re um amount of cu referred to as th and Figure 145-	s-is makes little sense. es a poor job of introducing graph to 145.2.11: emove power when a powe rrent. e 'Maintain Power Signatu 18 monitor for the absenc <i>Response Status</i> W	g the topic. ered connected Pl re'. The PSE state	D no longer draws a

<i>Cl</i> 145 <i>SC</i> 145.2.11 Yseboodt, Lennart	P 174 Philips Lighting	L 18	# r01-219	<i>Cl</i> 145 <i>SC</i> 145.3. Yseboodt, Lennart		76 L 49 os Lighting	# r01-222
Comment Type ER "The specification for T	Comment Status D MPS in Table 145-16 applies	only to the DC	<i>Editorial</i> MPS component."		Comment Status and any voltage from 0 ed in Table 145-20 inde	V to 57 V applied an	
SuggestedRemedy - Remove quoted sente	DC MPS" by "MPS" in Clause Response Status W		n we just call "MPS".	Missing word 'per'. SuggestedRemedy "The PD shall withst	and any voltage from 0 ed in Table 145-20 inde <i>Response Status</i>	V to 57 V applied **p finitely without perma	per** any of the valid
C/ 145 SC 145.3 Yseboodt, Lennart	P 175 Philips Lighting	L 24	# <u>r01-220</u>	Cl 145 SC 145.3. Yseboodt, Lennart		78 L 26	# r01-223
"Additional electrical sp	pecifications that apply to the F	PD are in 145.4	"	SuggestedRemedy	eset_PD max" is the onl	y variable with a space	ce in the name.
SuggestedRemedy "Additional electrical sp	Decifications that apply to the F Response Status W	PD are **specifi	ed** in 145.4."	Change name to "V Proposed Response PROPOSED ACCE		W	
SuggestedRemedy "Additional electrical sp Proposed Response	Response Status W	L 34	ed** in 145.4." # <u>r01-221</u>	Change name to "VI Proposed Response PROPOSED ACCE Cl 145 SC 145.3. Yseboodt, Lennart	Response Status PT. 3.4 P1 Philip	W 78 <i>L</i> 52 s Lighting	# <u>r01-224</u>
SuggestedRemedy "Additional electrical spin Proposed Response PROPOSED ACCEPT. CI 145 SC 145.3.2 Yseboodt, Lennart Comment Type ER "PDs shall be capable of pair configuration as de	Response Status W P176 Philips Lighting Comment Status D of accepting power in any value	L 34 9 d 2-pair configu	# r01-221 Editorial	Change name to "VI Proposed Response PROPOSED ACCE Cl 145 SC 145.3. Yseboodt, Lennart Comment Type E pd_acs_req: "This v Physical Layer class	Response Status PT. 3.4 P1 Philip Comment Status ariable indicates whethe sification. See 145.3.6.2	W 78 L 52 s Lighting D er the PD performs a"	# <u>r01-224</u>
SuggestedRemedy "Additional electrical spin Proposed Response PROPOSED ACCEPT. CI 145 SC 145.3.2 Yseboodt, Lennart Comment Type ER "PDs shall be capable of pair configuration as de Reference to Table is w SuggestedRemedy Change to:	Response Status W P176 Philips Lighting Comment Status D of accepting power in any valid efined in Table 145-19." vrong, should be Table 145-20 of accepting power in any valid	L 34 9 d 2-pair configu).	# <u>r01-221</u> <i>Editorial</i> ration and any valid 4-	Change name to "VI Proposed Response PROPOSED ACCE Cl 145 SC 145.3. Yseboodt, Lennart Comment Type E pd_acs_req: "This v Physical Layer class That is a very poor of SuggestedRemedy Replace by: "This variable indica	Response Status PT. 3.4 P1 Philip Comment Status ariable indicates whethe sification. See 145.3.6.2 description of what this we	W 78 L 52 s Lighting D er the PD performs a variable does.	# <u>r01-224</u> Editorial
SuggestedRemedy "Additional electrical spin Proposed Response PROPOSED ACCEPT. Cl 145 SC 145.3.2 Yseboodt, Lennart Comment Type ER "PDs shall be capable of pair configuration as de Reference to Table is w SuggestedRemedy Change to: "PDs shall be capable of "PDs shall be capable of	Response Status W P176 Philips Lighting Comment Status D of accepting power in any valid sfined in Table 145-19." vrong, should be Table 145-20 of accepting power in any valid effined in Table 145-20." Response Status W	L 34 9 d 2-pair configu).	# <u>r01-221</u> <i>Editorial</i> ration and any valid 4-	Change name to "VI Proposed Response PROPOSED ACCE Cl 145 SC 145.3. Yseboodt, Lennart Comment Type E pd_acs_req: "This v Physical Layer class That is a very poor of SuggestedRemedy Replace by: "This variable indica	Response Status PT. 3.4 P1 Philip Comment Status ariable indicates whether sification. See 145.3.6.2 description of what this w tes if a PD will draw P_ ERED. See 145.3.6.2." Response Status	W 78 L 52 Is Lighting D er the PD performs a " variable does. Autoclass_PD in the	# <u>r01-224</u> <i>Editorial</i> n Autoclass request during

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

C/ 145 SC 145.3.3.3 (seboodt, Lennart	P 180 Philips Lighting	L 52	# r01-225	<i>Cl</i> 145 <i>SC</i> 145.3.3.7 Yseboodt, Lennart	P 184 Philips Lighting	L 30	# r01-227
Comment Type E VPD is not in alphabetic SuggestedRemedy Move "VPD" after "VOn_ Proposed Response PROPOSED ACCEPT.			Editorial	Comment Type TR C There is a possibility for intr A PD can exit the INRUSH If it does so while the PSE loops through NOPOWER It is PD undemotion essent To close this hole we need	state at any time less tha is still in inrush, and VPD and defeats classification. ially.	n 50ms to POW is less than Vof	/ER_DELAY. f_pd, the state diagram
/ 145 SC 145.3.3.6 seboodt, Lennart	P181 Philips Lighting	L 50	# r01-226	SuggestedRemedy - Remove the arc from PON - Same fix in the dual-signa	VER_DELAY to NOPOW	_	
This variable is also defi A double definition need	Comment Status D _pse_assigned_class returns ned in the variables section 1 ls to be kept in perfect sync o v to point to the variable than	45.3.3.4. or it can lead to	-	Proposed Response R PROPOSED REJECT. TFTD, waiting on 349 AIP. This problem is fixed by cha done in comment 349.	esponse Status W	r value to be Ti	nrush_PD max. This is
	i0 through page 182 line 5 by ee 'pse_assigned_class' defi <i>Response Status</i> W		4."	51	P185 Philips Lighting Comment Status D	-	# <u>r01-228</u> PD Si
OOS				voltage drop of around 0. It is compounded section,	o mention in our spec that is it is possible to get sput 5V caused by the class c I by the PD state diagram e cannot change while the N, VOn_PD, VReset_th fro	a PD should in rious class/marl urrent. listing VMark_1 e state diagram	nplement hysteresis for k transitions due to the Th in the constants is running.

C/ 145 SC 145.3.3.8	8 <i>P</i> 185	L 49	# r01-229	C/ 145	SC 145.3.3.1	1 P	°188	L 26	# r01-232
Yseboodt, Lennart	Philips Lighting			Yseboodt, I	ennart	Phi	lips Lighting		
Comment Type T	Comment Status D		PD SD	Comment 7	ype ER	Comment Statu	is D		Editori
Variable "VReset_PD"	' needs to be updated to match	single-signatu	re.			e_pse_assigned_cl	ass_mode(2	X) returns the v	/ariable
SuggestedRemedy				. –	signed_class_n riable is also de	node(X). efined in the variable	as section 1	15330	
0	e to "VReset_PD_max" and upd	ate descriptio	n to match single-	1113 Va				40.0.0.0.	
o • • •	e name in statediagram.					eds to be kept in pe			ambiguity.
Proposed Response	Response Status W				•	ly to point to the va	riable than r	e-describe it.	
PROPOSED ACCEPT	Г.			Suggested	•	00 to 00 h			
C/ 145 SC 145.3.3.9	9 <i>P</i> 186	L12	# r01-230		e page 188 line ssigned class i		assigned o	lass mode(X)	defined in 145.3.3.9."
Yseboodt, Lennart	Philips Lighting	- 12	101 200	Proposed F	o	Response Statu	- 0 -		
Comment Type TR	Comment Status D		PD SD	•	, DSED ACCEPT	,			
51	0 which removed pd_current_lim	nit for single-s	-						
Should also be done f		in ter enigre e	grataroi	OOS					
SuggestedRemedy				C/ 145	SC 145.3.3.1	2 F	°190	L 19	# r01-233
	mit_mode(X) in 145.3.3.9 and re	emove it's use	in the dual-sig state	Yseboodt, I	ennart	Phil	lips Lighting		
diagram.				Comment 1	<i>уре</i> т	Comment Statu	is D		PD S
Proposed Response	Response Status W					he statement: "pd_			
PROPOSED ACCEPT	Γ.					mode(X), pd_req_c rer_level_mode(X)"			alaaa mada(X)"
C/ 145 SC 145.3.3.9	9 <i>P</i> 186	L17	# r01-231	Suggestedl			Should be	pse_assigneu_	
Yseboodt, Lennart	Philips Lighting			00		ower_mode(X) = m	in/nea assir	med class m	ode(X)
Comment Type T	Comment Status D		PD SD		_class_mode(X)		in(poc_assi		uuu(n),
51	able_mode(X)" and "pd_dll_enal	ble mode(X)"	-	Proposed F	Response	Response Statu	s W		
"mode" part.	_ () !	_ ()		PROPO	SED ACCEPT				
SuggestedRemedy				OOS					
	od_dll_capable" and "pd_dll_ena "Mode(X)" from descriptions.	able".		005					
Proposed Response	Response Status W								
PROPOSED ACCEPT	Г.								
008									

00S

C/ 145 SC 145.3.3.12 /seboodt, Lennart	P 190 Philips Lighting	L 21	# r01-234	C/ 145 Yseboodt, Ler	SC 145.3.8	P 199 Philips Lighting	L 40	# r01-236		
Comment Type T	Comment Status D	ia	PD SD	Comment Typ		Comment Status D		PD Power		
In state "NOPOWER" the SuggestedRemedy Change variable to "pd_i	e variable "pd_max_power(X)" nax_power_mode(X)".	is missing tr	e 'mode'.	"PI capac and	U	 and 16: MDI_POWER states for single uring MDI_POWER states for of 	0			
Proposed Response PROPOSED ACCEPT.	Response Status W			MDI_POV SuggestedRe		aven't existed for a while now				
OOS C/ 145 SC 145.3.8 Yseboodt, Lennart	P 198 Philips Lighting	L 10	# <u>r01-235</u>	Replace it "Single-si and item	tem 15 descri gnature PD c 16:	iption by: apacitance while in INRUSH, F rset capacitance while in INRU	_			
1 parameter that seemed	Comment Status D he PD Type column in Table 1 to depend on Type: V_Overla ower related parameters, this	oad-2P.		Proposed Res PROPOS OOS	sponse ED ACCEPT	Response Status W				
	or "Type 3" aka "Class 1-6" is	wrong, it sho	uld be 39.4V	C/ 145 Yseboodt, Ler	SC 145.3.8	Р 200 Philips Lighting	L 13	# r01-237		
Replace rows: - Single-signature PD, C	uggestedRemedy Replace rows: - Single-signature PD, Class 1-6 and dual-signature PD Class 1-4 = 39.4V - Single-signature PD, Class 7-8 and dual-signature PD Class 5 = 40.4V					Comment TypeEComment StatusDEditoItem 18 in Table 145-29 comprises of two different symbols. Also the numbering is off (next item is 20).Edito				
	into a single-signature and du text in the Parameter cell.	al-signature	subitem in order to	SuggestedRe Split VOn		f_PD into two different items (1	8 and 19).			
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Res PROPOS	sponse ED ACCEPT	Response Status W				
				OOS						

C/ 145 Yseboodt,		145.3.8 t	P 200 Philips Lightir	L16	# r01-238	C/ 145 Yseboodt,	SC 145.3.8.2	2.1	P 201 Philips Lightir	L 37	# r01-239
Comment		TR	Comment Status X	'9	Pres: Yseboodt8	Comment		Comment		'9	PD Power
This is condit VOff_ In add	s in dire tions tha PD rang dition, pe	ct contradi it require t je. er the state	VOff_PD is a range from 30' ction with the peak and tran he PD to continue operating e diagram, drawing peak poo h should never happen.	sient specificatio	n, both of which are VPD to go into the	consui - P_Au - PDM - PCla	has three differe mption, with pre utoclass_PD axPowerValue ss_PD cessful DLL neg	cendence for th	he lesser value		verage power
			e max value though, as for r ne VPort_PD-2P range.	normal operation	a PD is only	The in	put average pov	ver exceptions	currently do no	t take PDMaxPo	owerValue into account.
Propo						In 145 145.3.		d cluster all of t	he PD power re	equirements (Au	toclass currently sits in
30\/ -	42\/ - \	(on PD -	=> PD shall turn on in this ra	ande		Suggestea	Remedy				
30V - 36V -	36V = \	′off_PD == P min ==	 > PD shall turn off in this ra > PD may turn off if conditio PD shall stay on in this range 	inge n persists longer	than TCUT min	to:	ingle-signature F	-			itional information"
Suggestee	dRemea	ly					above 712, whe			ass 8, and PDM	axPowerValue set to
- Add Off_P "The F	sentend D." as fo PD may nger that	e after p2 ollows: turn off if n TCUT m	to 36 volt. (# This is the mir 01,line 6: "The PD shall turn the voltage in the range of V in". <i>Response Status</i> W	off at a voltage	in the range of V	to: "For de	ual-signature PI	Ds assigned to	·	additional inform PDMaxPowerVa	nation" lue_mode(X) set above
TFTD						- In 14	5.3.8.2 (line 26)	change:			
OOS						"The n PDMa	naximum averaç xPowerValue in	ge power, P Cla 145.5.3.3.3, in	cluding any pe	lass_PD-2P in Ta ak power drawn	
WFP	WFP				averaged over a 1 second sliding window." to: "The maximum average power, P Class_PD or P Class_PD-2P in Table 145-29, or PDMaxPowerValue in 145.5.3.3.3, **or P_Autoclass_PD in 145.3.6.2**, including an power drawn per 145.3.8.4 is averaged over a 1 second sliding window."					2**, including any peak	
						 Append new paragraph to 145.3.8.2: "The PD shall not draw more power than P Autoclass_PD, unless the PD successfunegotiates a higher power level, up to the PD requested Class, through Data Link L classification as defined in 145.5." 					
						"The F below	V Reset_PD ma	w more power t ax , unless the	PD successfull		int until V PD falls igher power level, up to efined in 145.5."

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

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"The PD is restricted to a maximum power draw of P Autoclass PD until the PD C/ 145 P 204 SC 145.3.8.6 successfully negotiates a higher power level through Data Link Layer classification as defined in 145.5." Yseboodt, Lennart Philips Lighting Proposed Response Response Status W Comment Type TR Comment Status X PROPOSED ACCEPT. During the last meeting it was identified that "Source resistance" and "Source current" are ambiguous and require re-simulation of the transient requirements. OOS SuggestedRemedy C/ 145 Adopt vseboodt 04 0117 pdtransients.pdf SC 145.3.8.4 P 203 L 39 # r01-240 Yseboodt, Lennart Philips Lighting Proposed Response Response Status W TFTD PD Power Comment Type T Comment Status D "These equations may be used to calculate P Peak PD or P Peak PD-2P for Data Link WFP Laver classification by substituting P Class PD or P Class PD-2P with PDMaxPowerValue or PDMaxPowerValue mode(X) and for Autoclass by substituting P Class PD with C/ 145 SC 145.3.8.9 P 205 PAutoclass PD." Philips Lighting Yseboodt, Lennart Old text combined with new equations = confusion. Comment Type E Comment Status D "The maximum pair current in a system depends on the assigned Class (see 145.3.6), and The equations redefine PPeak_PD based on PDMaxPowerValue. is defined in Table 145-17." SuggestedRemedy Reference to Table is wrong. Replace text by: SuggestedRemedy "These equations may be used to calculate P Peak PD or P Peak PD-2P after Data Link Change to: Layer classification and for Autoclass by substituting PDMaxPowerValue with "The maximum pair current in a system depends on the assigned Class (see 145.3.6), and PAutoclass PD." is defined in Table 145-31." Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT. C/ 145 SC 145.3.8.4.1 P 204 L14 # r01-241 C/ 145 SC 145.3.8.9 P 205 Yseboodt, Lennart Philips Lighting Yseboodt, Lennart Philips Lighting Comment Type **T** Comment Status D Editorial Comment Status D Comment Type TR Subclause 145.3.8.4.1 refers to PPort PD max to refer to maximum PD power under the Table 145-31 (Maximum pair-to-pair current unbalance) is the duplicate of 145-17 for the conditions in 145.3.8.2.1. PD section. This is hard to deduce. Some modifications are needed to make it work here. SuggestedRemedy SuggestedRemedy Append sentence at the end: "PPort PD max refers to the maximum power draw as 1. ICon is not a parameter known to the PD. Replace ICon by "PClass PD / VPD" permitted by 145.3.8.2.1". 2. Add a footnote to assigned Class "1 to 4" that says Proposed Response Response Status W "There is no maximum unbalance current requirement for these assigned Classes." PROPOSED ACCEPT. 3. By duplicating the Table we get a duplicate parameter name. Even though the values are the same, we should give them proper names. Rename I Unbalance-2P to I Unbalance PD-2P in subclause 145.3. Proposed Response Response Status W PROPOSED ACCEPT.

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

Comment ID r01-244

L25

L 26

L 26

r01-242

r01-243

r01-244

PD Power

Editorial

Pres: Yseboodt4

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C/ 145 SC 145.3.8.9 P 205 L 32 Yseboodt, Lennart Philips Lighting	# r01-245	C/ 145 SC 145.3.8.9 P 207 L 18 # [r01-247] Yseboodt, Lennart Philips Lighting Philips Lighting Philips Lighting Philips Lighting
Comment Type E Comment Status D In Table 145-31 the column header "Value" does not convey IUnbalanc maximum current. SuggestedRemedy	<i>Editorial</i> ce_PD-2P is a	Comment Type E Comment Status D Editori. In Figure 145-31 the arrows for the currents are missing, they are drawn in the PSE section SuggestedRemedy Add current arrows.
Change header to "Max". Proposed Response Response Status W PROPOSED REJECT.		Proposed Response Response Status W PROPOSED ACCEPT.
The table is giving you the value of the parameter, while the text lets th the current shall not exceed that value. Max does not make anything n		C/ 145 SC 145.3.9 P 208 L 5 # r01-248 Yseboodt, Lennart Philips Lighting Philips Lighting Philips Lighting Philips Lighting
X 145 SC 145.3.8.9 P 206 L 25 Seboodt, Lennart Philips Lighting	# r01-246	Comment Type T Comment Status D PD Power "A PD shall meet the T MPS_PD requirement with a series resistance representing the worst case cable resistance between the measurement point and the PD PI."
duty cycle, and shall not exceed I Peak-2P-unb , as defined in Equation pair" This links back to a PSE parameter in the PD section. We are now able because we have local PD unbalance numbers. Note: values are I_LIM-2P minus 2mA.		SuggestedRemedy Change to: "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 Proposed Response Response Status W PROPOSED ACCEPT.
SuggestedRemedy - To Table 145-31, add new parameter I_Unbalance_peak-2P: Assigned Class Value 1 to 4 PPeak_PD / VPD 5 0.56 6 0.7 7 0.827 8 0.994 Proposed Response Response Status W PROPOSED ACCEPT.		Cl 145 SC 145.4.9 P 217 L 51 # r01-249 Yseboodt, Lennart Philips Lighting Editorial Comment Type E Comment Status D Editorial "For a 10GBASE-T midspan PSDs, in meeting either of the above requirements, the Midspan PSE may be substituted for up to two connection pairs in the FD." I guess PSDs needs to be PSE ? SuggestedRemedy Change to: "For a 10GBASE-T midspan PSE, in meeting either of the above requirements, the Midspan PSE may be substituted for up to two connection pairs in the FD."

145 Seboodt, Ler	SC 145.5	P 222 Philips Lighting	L 28	# r01-250	C/ 145 Yseboodt, I	SC 145.5	P 222 Philips Lightin	L 28	# r01-251
omment Typ		Comment Status X		Pres: Yseboodt5	Comment 1		Comment Status X	5	Pres: Yseboodt5
There is a	i basic timing i	ssue in DLL power negotiatior	ns which is cur		There i	51	ct between DLL power negotia	tion and Autocla	
- it must of (through p - it must of to lower M When a P - it must of - it must i	conform to the od_max_powe wait for the PS IPS current be D negotiates wait for the PS mmediately tr	E to be in sync before it trigge fore the PSE is ready for it)	ers power upda	te (otherwise it can flip wer	PD req The PS budget DLL is Per the Class. At this	uests Autoclas SE performs the initialized DLL state diag point the Autoc	ppens. An initial Class is assign s Autoclass measurement and grams, the PSE uses a PSE_II lass optimization is forgotten PowerValue is the amount of p	based on this re NITIAL_VALUE I	educes the power based on the assigned ver power the PSE
IggestedRei	medy				The ee	ma hannana w	non DLL Autoplano in upod rig	ht ofter the mea	ouromont the result is
yseboodt_	_05_0117_dlla		essed in		invalida The roo value.	ated because the this	nen DLL Autoclass is used, rig ne value in PSEAllocatedPower is that DLL always requires bo t of Autoclass is that neither pa at the PD PI.	rValue prevails. oth PSE and PD	to negotiate to some
yseboodt_05_0117_dllauto Adopt yseboodt_05_0117_ <i>roposed Response R</i> TFTD WFP	Response Status W			DLL op Ideally go bacl Thus, I PSEAll Autocla	peration is susp what I would w k to "normal" p would suggest locatedPowerV ass power.	icate at DLL level that Autoclas ended. ant is that a PD or PSE can, a ower allocation. that we take a magic number alue fields that indicates that th would be 0xACAC.	t any time, switc for the PDReque	h out of this mode and estedPowerValue and	
					PDReq The PS	uestedPowerV SE, if it supports	n after a Physical Layer Autoc alue=0xACAC which indicates & Autoclass, would use PSEAll can set PSEAllocatedPowerVa	Autoclass. ocatedPowerVal	lue=0xACAC.
							perates under Autoclass, is ab n even redo Autoclass using [' to a fixed PD PI
					Suggested	Remedy			
					Adopt y	yseboodt_05_0	117_dllautoclass.pdf		
					Proposed F TFTD	Response	Response Status W		
					OOS				
					WFP				

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

C/ 145 SC 145.5 Yseboodt, Lennart	Р 222 Philips Lightir	L 33	# r01-252	C/ 145 Yseboodt,	SC 145.5.3	DI	P 223 hilips Lightin	L13	# r01-254
Comment Type T	Comment Status D	ig	DLL	Comment		Comment Sta		ig	DLI
"Single-signature PD	s advertising a Class 4 signatu or higher on either Mode supp		dual-signature PDs	The was	ay the subclause with the particula	es are ordered in a ar implementation	145.5.3 (DLL n of DLL we	have adopted in	s) no longer makes
request Class) SuggestedRemedy Replace by: "Single-signature PD	to be inconsistent within the si s that request Class 4 or highe either Mode support Data Link <i>Response Status</i> W PT.	er and dual-signa	ture PDs that request	- The t - Subd - Crea _alt(X) - Merg - Crea - Rem	icture 145.5.3 su op branch is PS livide PD into sin te a single mapp ones) e the variable lis te two mapping	E and PD igle-signature and ing Table for PSE its for the PSE Tables for PDs (o it _alt(X=A) or _m	Es with ALL f	the variables (th	e regular ones and the one of dual-signature) nature mapping table,
C/ 145 SC 145.5.2 Yseboodt, Lennart	P 222 Philips Lightir	L 52	# r01-253	Proposed PROP	Response OSED ACCEPT	Response Stat	tus W		
Comment Type E This is last occuranc	Comment Status D e of "state variable" (another o	ne in the PICS re	<i>Editorial</i> elated to this one).	C/ 145 Yseboodt,	SC 145.5.3.3 Lennart		P 225 hilips Lightin	L 25	# r01-255
	ate variable pd_dll_ready withir nabled in a PD as indicated by .3.3.3)."				s for pse_initial_v	Comment Sta value are incorrec		atch PClass_PD	DLI).
SuggestedRemedy Replace "the state va	ariable" by "the variable".				se_allocated_pv	vr=6, change pse vr=8, change pse			
Proposed Response PROPOSED ACCEF	Response Status W			Proposed		Response Stat			
OOS				C/ 145 Yseboodt,	SC 145.5.3.3 Lennart		P 226 hilips Lightin	L 28	# r01-256
					on pse_power_re	<i>Comment Sta</i> eview does not fo		vention that fund	DLI ctions start with do
				Suggested Renan	-	eview to do_pse_	power_revie	w in Clause 145	i.
				Proposed PROP	<i>Response</i> OSED ACCEPT	Response Sta	tus W		

Values for pd_dllmax_value are incorrect (should match PClass_PD for Class 6) SuggestedRemedy - For pd_req_class=6, change pd_dll_max_value to 510 Class 8 is OK. Proposed Response Response Status W PROPOSED ACCEPT. Cl 145 SC 145.5.3.4.2 P 229 L1 Yseboodt, Lennart Philips Lighting Comment Type TR Comment Status D DLL Wrong valid values: for Values: 0 through 999" DLL Wrong valid values: for PDRequestedPowerValue. SuggestedRemedy Change both to "Values: 0 through 999" DL Wrong valid values: for Values: 0 through 999" DL Wrong valid values: 0 through 999" Change both to "Values: 0 through 999" Change both to "Values: 0 through 999" Proposed Response Response Status W PROPOSED ACCEPT. OOS Cl 145 SC 145.5.3.4.2 P 229 L 40 # [01-261 Wrong valid values for VirroredP DequestedPower/Value = through 999" DL Wrong valid values for PDRequestedPower/Value = code(X): "Values: 0 through 499" SuggestedRemedy Change to through 999" Change to to "Values: 0" Proposed Response Response Status W PROPOSED ACCEPT.		
Values for pd_dlmax_value are incorrect (should match PClass_PD for Class 6) Suggested/Remedy - For pd_req_class=6, change pd_dll_max_value to 510 Class 8 is 0K. Proposed Response Response Status W PROPOSED ACCEPT. Cl 145 SC 145.5.3.4.2 P229 L1 # [01-258] Yseboodt, Lennart Philips Lighting Conment Type TR Comment Type TR </th <th></th> <th></th>		
 For pd_req_class=6, change pd_dll_max_value to 510 Class 8 is OK. Proposed Response Response Status W PROPOSED ACCEPT. Cl 145 SC 145.5.3.4.2 P229 L1 # rol1-258 Yseboodt, Lennart Philips Lighting Comment Type TR Comment Status D Wrong Vaild values for MirroredPDRequestedPowerValueE-tho and MirroredPSEAllocatedPowerValueS: 1 through 999" Proposed Response Response Status W PROPOSED ACCEPT. Cl 145 SC 145.5.3.4.2 P229 L1 # rol1-258 Vieboodt, Lennart Philips Lighting Comment Type TR Comment Status D DLL Comment Type TR Comment Status V Proposed Response Response Status W PROPOSED ACCEPT. COS Cl 145 SC 145.5.3.4.2 P229 L32 # rol1-259 Vseboodt, Lennart Philips Lighting Comment Type T Comment Status D Cl 145 SC 145.5.3.4.2 P229 L32 # rol1-259 Vseboodt, Lennart Philips Lighting Comment Type T Comment Status D Cl 145 SC 145.5.3.4.2 P229 L32 # rol1-259 Vseboodt, Lennart Philips Lighting Comment Type T Comment Status D DLL SuggestedRemedy Comment Type T Comment Status D DLL SuggestedRemedy Add "Values: 1 through 999" Proposed Response Response Status W PROPOSED ACCEPT. Cl 145 SC 145.5.3.4.2 P229 L32 # rol1-259 Values for variable PDMaxPowerValue. Proposed Response Response Status W PROPOSED ACCEPT. Cl 145 SC 145.5.3.4.2 P230 L2 # rol1-262 Vseboodt, Lennart Philips Lighting Comment Type T Comment Status D Missing 'valid values' for variable PDMaxPowerValue. Proposed Response Response Status W PROPOSED ACCEPT. Cl 145 SC 145.5.3.4.2 P230 L2 # rol1-262 Vseboodt, Lennart Philips Lighting Comment Status D Values for variable PDMaxPowerValue. Proposed Response Response Status W PROPOSED A		
Class is or. PROPOSED ACCEPT. Oposed Response Response Status W PROPOSED ACCEPT. OOS C1 145 SC 145.5.3.4.2 P229 L 1 # [01-265] Yseboodt, Lennart Philips Lighting D DL Comment Type TR Comment Status D DL Wrong valid values: for MirroredPDRequestedPowerValueEcho and MirroredPSEAllocatedPowerValue Yalues: 1 through 999" DL Wrong valid values: for PMerguestedPowerValueE(X): Values: 0 through 999" These are incoming fields that can be zero. SuggestedRemedy - Change both to 'Values: 0 through 999" - Change both to 'Values: 0 through 999" Proposed Response Response Status W PROPOSED ACCEPT. SuggestedRemedy C1 145 SC 145.5.3.4.2 P230 L 2 # [01-265] OOS C1 145 SC 145.5.3.4.2 P230 L 2 # [01-266] Yseboodt, Lennart Philips Lighting Comment Type TR Comment Type Comment Type Comment Type Comment Type Cl 145 SC 145.5.3.4.2 P230 L 2 # [01-266] Yseboodt, Lennart Philips Lighting Comment Type TR Comment Type <t< td=""><td></td><td></td></t<>		
Cl 145 SC 145.5.3.4.2 P 229 L 1 # [01-258 Cl 145 SC 145.5.3.4.2 P 229 L 40 # [01-261 Vseboodt, Lennart Philips Lighting Cl Cl 145 SC 145.5.3.4.2 P 229 L 40 # [01-261 Wrong valid values for MirroredPDRequestedPowerValueEcho and MirroredPDRequestedPowerValue: Through 999" DL Wrong valid values for PDRequestedPowerValue. mode(X): "Values: 0 through 999" DL These are incoming fields that can be zero. SuggestedRemedy - Change to: "Values: 0 through 999" - Change to: "Values: 0" SuggestedRemedy - Change to: "Values: 0" PROPOSED ACCEPT. OOS SC 145.5.3.4.2 P 229 L 32 # [01-259] Consent Type T Comment Status D DL SuggestedRemedy - Change to: "Values: 0" Cl 145 SC 145.5.3.4.2 P 229 L 32 # [01-259] Values: 0" Vseboodt, Lennart Philips Lighting Cl I45 SC 145.5.3.4.2 P 230 L 2 # [01-262] Yseboodt, Lennart Philips Lighting Cl I45 SC 145.5.3.4.2 P 230 L 2 # [01-262] Yseboodt, Lennart <t< td=""><td></td><td></td></t<>		
Yseboodt, Lennart Philips Lighting Yseboodt, Lennart Philips Lighting Comment Type TR Comment Status D DLL Comment Type TR Comment Status D DLL Wrong Valid values' for MirroredPDR-questedPowerValue Change both to "Values: 1 through 999" DLL Comment Type TR Comment Status D DL SuggestedRemedy Change both to "Values: 0 through 999" Change both to "Values:	PROPOSED ACCEPT.	OOS
Wrong 'valid values' for MirroredPDRequestedPowerValueEcho and Wrong valid values for PDRequestedPowerValue_mode(X): "Values: 0 through 499" These are incoming fields that can be zero. SuggestedRemedy Change both to "Values: 0 through 999" Change both to "Values: 0 through 999" Proposed Response Response Status W PROPOSED ACCEPT. C/ 145 OOS C/ 145 SC 145.5.3.4.2 P 229 Vseboodt, Lennart Philips Lighting Comment Type T Comment Status D DL Visitig values' for variable PDMaxPowerValue. DL SuggestedRemedy - For pd_max_power=8, change pd_initial_value to "<=510"		
SuggestedRemedy - Change both to "Values: 0 through 999" Proposed Response Response Status W PROPOSED ACCEPT. OOS - Change to: "Values: 0" Cl 145 SC 145.5.3.4.2 P 229 L 145 SC 145.5.3.4.2 P 229 V seboodt, Lennart Philips Lighting Comment Type T Comment Status D Missing 'valid values' for variable PDMaxPowerValue. DLL SuggestedRemedy SuggestedRemedy - For pd_max_power=6, change pd_initial_value to "<=510"	Wrong 'valid values' for MirroredPDRequestedPowerValueEcho and MirroredPSEAllocatedPowerValue "Values: 1 through 999"	Wrong valid values for PDRequestedPowerValue_mode(X): "Values: 0 through 499" This is the single-signature PD DLL state diagram, the requested value for _mode(X) can
Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT. OOS C/ 145 SC 145.5.3.4.2 P 229 L 32 # [01-259] Yseboodt, Lennart Philips Lighting Comment Status D DL Comment Type T Comment Status D DLL Values for pd_initial_value are incorrect (should match PClass_PD) SuggestedRemedy Add "Values: 1 through 999" to PDMaxPowerValue. DL Suggested Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT. For pd_max_power=8, change pd_initial_value to "<=510"	SuggestedRemedy	
OOS CI 145 SC 145.5.3.4.2 P 229 L 32 # r01-259 Yseboodt, Lennart Philips Lighting Comment Status D DL Comment Type T Comment Status D DL Values for pd_initial_value are incorrect (should match PClass_PD) SuggestedRemedy Missing 'valid values' for variable PDMaxPowerValue. DL SuggestedRemedy - For pd_max_power=6, change pd_initial_value to "<=510"	Proposed Response Response Status W	
Yseboodt, Lennart Philips Lighting Values for pd_initial_value are incorrect (should match PClass_PD) Comment Type T Comment Status D DLL SuggestedRemedy Missing 'valid values' for variable PDMaxPowerValue. D DLL SuggestedRemedy - For pd_max_power=6, change pd_initial_value to "<=510"	OOS	
Missing 'valid values' for variable PDMaxPowerValue. - For pd_max_power=6, change pd_initial_value to "<=510"		
Add "Values: 1 through 999" to PDMaxPowerValue. Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT. OOS		- For pd_max_power=6, change pd_initial_value to "<=510"
Proposed Response Response Status W PROPOSED ACCEPT. OOS		Proposed Response Response Status W
OOS OBE by 358		
	OOS	OBE by 358

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

Cl 145 SC 145.5.3.4.2 P230 L 8	# r01-263	Cl 145 SC 145.5.3.4.4 P231 L14 # r01-266
Yseboodt, Lennart Philips Lighting		Yseboodt, Lennart Philips Lighting
Comment Type T Comment Status D Wrong valid values for PSEAllocatedPowerValueEcho: "Values	DLL : 1 through 999"	Comment Type E Comment Status D Editorial Spurious newline after pd_new_value:
SuggestedRemedy Change to "Values: 0 through 999"		SuggestedRemedy Fix.
Proposed Response Response Status W PROPOSED ACCEPT.		Proposed Response Response Status W PROPOSED ACCEPT.
OOS C/ 145 SC 145.5.3.4.2 P230 L15	# r01-264	Cl 145 SC 145.5.3.4.5 P 233 L 3 # r01-267 Yseboodt, Lennart Philips Lighting Philips Lighting Philips Lighting
Yseboodt, Lennart Philips Lighting	# 101-204	Comment Type TR Comment Status D DLL
Comment Type TR Comment Status D Wrong valid values for TempVar: "Values: 1 through 999" Must match valid range of MirroredPSEAllocatedPowerValue.	DLL	"!pd_dll_ready" Entry arc into INITIALIZE should be "!pd_dll_enable + !pd_dll_ready" to match with other DLL state diagrams.
SuggestedRemedy		SuggestedRemedy
Change to: "Values: 0 through 999"		Change to: "!pd_dll_enable + !pd_dll_ready"
Proposed Response Response Status W PROPOSED ACCEPT.		Proposed Response Response Status W PROPOSED ACCEPT.
Cl 145SC 145.5.3.4.4P 231L 10Yseboodt, LennartPhilips Lighting	# r01-265	C/ 145 SC 145.5.3.4.5 P 233 L 23 # r01-268 Yseboodt, Lennart Philips Lighting Philips Lighting Philips Lighting Philips Lighting
Comment Type T Comment Status D Function pd_power_review does not follow the convention that	DLL functions start with do	Comment Type E Comment Status D Editorial The exit branch from REQUEST to IDLE has the "+" at the start of the next line. Editorial
SuggestedRemedy Rename pd_power_review to do_pd_power_review in Clause 1	45.	SuggestedRemedy Move the "+" to the end of the line above.
Proposed Response Response Status W PROPOSED ACCEPT.		Proposed Response Response Status W PROPOSED ACCEPT.

C/ 145	SC 145.5.3.5	P 233	L 33	# r01-269
Yseboodt,	Lennart	Philips L	₋ighting	
Comment	Type ER	Comment Status D)	Editorial
object	S.	the mappings between	Ū	
		ve used the notation "P able PDRequestedPow		/alueEcho_alt(X=A)" to
		use "P" as a variable p	pointing to the active	state diagram, this
	on no longer feels	right.		
Suggested		4		
•		1 every instance of "(X	, , ,	$(X=B)^{\circ}$ with " $(B)^{\circ}$.
•	Response	Response Status V	V	
PROF	POSED ACCEPT.			
OOS				
C/ 145	SC 145.5.3.5	P 233	L 41	# r01-270
Yseboodt,	Lennart	Philips L	₋ighting	
Comment	Туре Т	Comment Status D)	DLL
		0 0		dy_alt(X) to non-existing
state	diagram object aL	ldpXdot3LocReadyA /	aLldpXdot3LocRead	lyB.
Suggestee	dRemedy			
	ve this mapping.			
		ructures these tables a exists for pse dll ready		nuffle, Editor to verify one
	, 11 0	1 = = ,		
	Response	Response Status V	V	
PROF	POSED ACCEPT.			
OOS				

C/ 145	SC 145.5.3.5	P 233	L 51	# <u>r01-271</u>
Yseboodt,	Lennart	Philips I	_ighting	
Comment	Туре Т	Comment Status)	DLI
		ing from non-existing v bject aLldpXdot3LocR		
Suggestee	dRemedy			
	ve those lines and Xdot3LocReady <	d replace by mapping: = pd_dll_ready		
Proposed	Response	Response Status V	v	
PROF	OSED ACCEPT.			
OOS				
C/ 145	SC 145.5.3.6.	2 P 234	L 46	# <u>r</u> 01-272
Yseboodt,	Lennart	Philips I	_ighting	
Comment	Type ER	Comment Status)	DL
param We sh	neter. nould also mentior	"145.5.3.6.2 Variables n "P" which was added I5.3.3 can now be mac	at D3.0.	C C
Suggested	dRemedy			
"XXTh			ure 145-39) uses	"_alt(X)" , which is defined
over e to Alte or "B"	each pairset indepernative A and Alte , or "_alt(P)" where	endently unless otherv ernative B are denoted e "P" can be "A" or "B"	vise specified. All t with the suffix "_a , as defined in 145	shown in Figure 145-39 the parameters that apply lt(X)" where "X" can be "A" 5.5.3.6.1. A parameter that native A and Alternative B.
		ol state diagram (Figur following variables:**'		145-40, Figure 145-43, and

Proposed Response Response Status W PROPOSED ACCEPT.

Cl 145 SC 145.5.3.6. Yseboodt, Lennart	2 P235 Philips Lighting	L 45	# r01-273	Cl 145 SC 145.5.3.7.3 P 239 L 35 # r01-275 Yseboodt, Lennart Philips Lighting
Comment Type TR	Comment Status D		DLL	Comment Type ER Comment Status D DLL
SuggestedRemedy	lue_alt(X) are incorrect, should r_pri/sec=5 change pse_initial_		_	The introductory text for "145.5.3.7.3 Variables" only refers to "X" as being a variable parameter. We should also mention "P" which was added at D3.0. Also the reference to 145.3.3 can now be made to the DLL specific 145.5.3.7.1.
- Replace "pse, allocate	d_pwr_mode_pri/sec" to "pse_	allocated pwr	nri/sec"	SuggestedRemedy
Proposed Response PROPOSED ACCEPT.	Response Status W		_µ1/300	Change text as follows: "XXThe PD power control state diagram (Figure 145-41) use "_mode(X)", which is defined in 145.3.3, and the following variables:XX
OOS C/ 145 SC 145.5.3.7.	2 P 239	L 32	# r01-274	**Dual-signature PDs provide the behavior of the state diagram shown in Figure 145-45 over each pairset independently unless otherwise specified.
Yseboodt, Lennart	2 Philips Lighting	L 32	# [<u>r01-274</u>	All the parameters that apply to Mode A and Mode B are denoted with the suffix "_mode(X)" where "X" can be "A" or "B", or "_mode(P)" where "P" can be "A" or "B", as
Comment Type TR	Comment Status D value_mode(X) is incorrect, sho	uld match PC	DLL lass PD	defined in 145.5.3.7.1. A parameter that ends with the suffix "_mode(X)" may have different values for Mode A and Mode B.
SuggestedRemedy				The PD power control state diagram (Figure 145-45 and Figure 145-46) use the following variables:**"
 For pd_req_class_mo 	de(X)=5 change pd_dll_max_va	alue_mode(X)	to 356	Proposed Response Response Status W
Proposed Response PROPOSED ACCEPT.	Response Status W			PROPOSED ACCEPT.
OOS				C/ 145 SC 145.5.3.7.3 P 240 L 10 # r01-276 Yseboodt, Lennart Philips Lighting
				Comment Type TR Comment Status D DLL Wrong valid values for PDRequestedPowerValue_mode(X): "Values: 0 through 499". These must be bound by pd_dllmax_value_mode(X). DLL DLL
				SuggestedRemedy Replace by: "Values: 0 through pd_dllmax_value_mode(X)"
				Proposed Response Response Status W PROPOSED ACCEPT.

OOS

IEEE P802.3bt D3.1 4-Pair PoE 1st Sponsor recirculation ballot comments

Cl 145 SC 145.5.3. Yseboodt, Lennart	7.3 P 240 Philips Lighting	L 25	# r01-277	C/ 145 SC 145.7.3.2 P 254 L 12 # r01-280 Yseboodt, Lennart Philips Lighting Philips Lighting Philips Lighting Philips Lighting	
SuggestedRemedy	Comment Status D wer_mode(X) should match PCI mode(X)=5 change pd_initial_va		DLL 356.	Comment Type E Comment Status D Ea PICS PSE11 contains spurious period before "PD". SuggestedRemedy Remove period.	ditoiral
Proposed Response PROPOSED ACCEP	Response Status W			Proposed Response Response Status W PROPOSED ACCEPT.	
OOS C/ 145 SC 145.5.4	P 244	L 27	# r01-278	C/ 145 SC 145.7.3.2 P 255 L 10 # r01-281 Yseboodt, Lennart Philips Lighting P	
Yseboodt, Lennart Comment Type E	Philips Lighting <i>Comment Status</i> D Title and header "_alt(X)", but th		DLL	Comment Type E Comment Status D "PSE28 PD_4pair_cand default value" Variable name should not be capitalized. SuggestedRemedy Change to: "PSE28 pd_4pair_cand default value"	PICS
Proposed Response PROPOSED ACCEP	Response Status W			Proposed Response Response Status W PROPOSED ACCEPT.	
OOS <i>C</i> / 145 SC 145.5.6.	1 <i>P</i> 246	L 50	# r01-279	C/ 145 SC 145.7.3.2 P 257 L 24 # [r01-282] Yseboodt, Lennart Philips Lighting Philips Lighting Philips Lighting Philips Lighting	
Yseboodt, Lennart Comment Type E "A dual-signature PD power it needs for 2- p	Philips Lighting Comment Status D that is switched from 4-pair to 2- pair operation in the PDRequested power for the active Mode	pair mode reque adPowerValue v	Editorial sts the amount of	Comment Type E Comment Status D Ed "PSE55 In theCLASS_RESET, CLASS_RESET_PRI or CLASS_RESET_SEC state" Sentence is missing space. SuggestedRemedy Change to: "PSE55 In the CLASS_RESET, CLASS_RESET_PRI or CLASS_RESET_SEC state"	ditorial
That should be Table SuggestedRemedy Change Annex 145-43 Proposed Response PROPOSED ACCEP	to Table 145-43. Response Status W			Proposed Response Response Status W PROPOSED ACCEPT.	

C/ 145 SC 145.7.3.2 Yseboodt, Lennart	P 257 Philips Lighting	L 32	# r01-283	C/ 145 SC 145.2 Zimmerman, George	.8.5.1	P 166 Aquantia, AD	L 44	# r01-286	
	1 0 0			ý č			i, Comm		
Comment Type E	Comment Status D	1 - 1 - 1 - 1	Editorial	Comment Type TR		ment Status D		Leeb Personale and a	
Misspelled variable.	hen PSE reaches POWER_ON	state"		"The PSE PI connector (jack) when mated with a specified balanced cabling connector (plug) shall meet the requirements of 145.2.8.5.1." - this is nonsensical. There is actually					
SuggestedRemedy				only one other requ	irement liste	d in 145.2.8.5.1, and	d I believe the int		
Change to:				SuggestedRemedy	De stated s	o that it applies when			
1 =	hen PSE reaches POWER_ON	I state"			nes 44-45 (th	le quoted sentence i	in the comment)	and insert new	
Proposed Response	Response Status W							e begins on line 29 "A	
PROPOSED ACCEPT.					,,	entence to read ""Th r (jack) when mated			
C/ 145 SC 145.7.3.2	P 264	L 7	# r01-284	connector (plug)."	FICOINECIO	I (Jack) when maleu	with a specified	balanced cabiling	
Yseboodt, Lennart	Philips Lighting			Proposed Response	Respo	onse Status W			
Comment Type E	Comment Status D		Editorial	PROPOSED ACC	PT.				
"PD45 Input average po Two spaces missing.	owerexceptions for Class 6 and	l Class 8single	-signature PDs"	C/ 145 SC 145.3	.8.9	P 205	L 50	# <u>r</u> 01-287	
Two spaces missing.	owerexceptions for Class 6 and	l Class 8single	-signature PDs"	C/ 145 SC 145. Zimmerman, George	.8.9	P 205 Aquantia, AD		# r01-287	
Two spaces missing.	owerexceptions for Class 6 and	l Class 8single	-signature PDs"						
Two spaces missing. SuggestedRemedy Change to:	owerexceptions for Class 6 and ower exceptions for Class 6 and	Ū		Zimmerman, George Comment Type TR "The PD PI connect	Com tor (jack) wh	Aquantia, AD ment Status D en mated with a spe	I, Comm	Unbalance cabling connector	
Two spaces missing. SuggestedRemedy Change to: "PD45 Input average po Proposed Response	ower exceptions for Class 6 and Response Status W	Ū		Zimmerman, George Comment Type TR "The PD PI connee (plug) shall meet th	Com tor (jack) wh e requireme	Aquantia, AD ment Status D en mated with a spe nts of 145.3.8.9" - th	I, Comm cified balanced on is is nonsensical	Unbaland cabling connector I. This is a dual of a	
Two spaces missing. SuggestedRemedy Change to: "PD45 Input average po	ower exceptions for Class 6 and Response Status W	Ū		Zimmerman, George Comment Type TR "The PD PI conner (plug) shall meet th comment on 145.2 and the same for c	Com tor (jack) wh e requireme 8.5.1. Ther ual-sig) liste	Aquantia, AD ment Status D en mated with a spe nts of 145.3.8.9" - th e is actually only one d in 145.3.8.9 and I	I, Comm ecified balanced o his is nonsensical e other requirement believe the inten	Unbalance cabling connector I. This is a dual of a ent (one for single-sig, t is that that	
Two spaces missing. SuggestedRemedy Change to: "PD45 Input average po Proposed Response PROPOSED ACCEPT.	ower exceptions for Class 6 and Response Status W	Ū	e-signature PDs"	Zimmerman, George Comment Type TR "The PD PI connec (plug) shall meet th comment on 145.2 and the same for c requirement should	Com tor (jack) wh e requireme 8.5.1. Ther ual-sig) liste l be stated se	Aquantia, AD ment Status D en mated with a spe nts of 145.3.8.9" - th e is actually only one d in 145.3.8.9 and I	I, Comm ecified balanced o his is nonsensical e other requirement believe the inten	<i>Unbalanc</i> cabling connector I. This is a dual of a ent (one for single-sig,	
Two spaces missing. SuggestedRemedy Change to: "PD45 Input average po Proposed Response PROPOSED ACCEPT. CI 145A SC 145A.5	ower exceptions for Class 6 and Response Status W	d Class 8 singl		Zimmerman, George Comment Type TR "The PD PI connect (plug) shall meet th comment on 145.2 and the same for c requirement should balanced cabling c	Com tor (jack) wh e requireme 8.5.1. Ther ual-sig) liste l be stated se	Aquantia, AD ment Status D en mated with a spe nts of 145.3.8.9" - th e is actually only one d in 145.3.8.9 and I	I, Comm ecified balanced o his is nonsensical e other requirement believe the inten	Unbalance cabling connector I. This is a dual of a ent (one for single-sig, t is that that	
Two spaces missing. SuggestedRemedy Change to: "PD45 Input average po Proposed Response PROPOSED ACCEPT. C/ 145A SC 145A.5 (seboodt, Lennart	ower exceptions for Class 6 and Response Status W P 278	d Class 8 singl	e-signature PDs"	Zimmerman, George Comment Type TR "The PD PI connect (plug) shall meet th comment on 145.2 and the same for or requirement should balanced cabling or SuggestedRemedy	Com tor (jack) wh e requireme 8.5.1. Ther ual-sig) liste l be stated so connector.	Aquantia, AD ment Status D en mated with a spents of 145.3.8.9" - th e is actually only one d in 145.3.8.9 and I o that it applies when	I, Comm ecified balanced o is is nonsensical e other requirement believe the inten n the PD PI is ma	Unbaland cabling connector I. This is a dual of a ent (one for single-sig, t is that that ated to the specified	
Two spaces missing. SuggestedRemedy Change to: "PD45 Input average po Proposed Response PROPOSED ACCEPT. C/ 145A SC 145A.5 (seboodt, Lennart	ower exceptions for Class 6 and <i>Response Status</i> W <i>P</i> 278 Philips Lighting <i>Comment Status</i> D	d Class 8 singl	e-signature PDs" # [<u>r01-285</u>]	Zimmerman, George Comment Type TR "The PD PI connect (plug) shall meet th comment on 145.2 and the same for correquirement should balanced cabling co SuggestedRemedy delete page 205 lin paragraph after the	Com tor (jack) wh e requireme 8.5.1. There ual-sig) liste be stated so onnector. es 50-51 (th sentence ei	Aquantia, AD ment Status D en mated with a spents of 145.3.8.9" - the base is actually only one d in 145.3.8.9 and I bo that it applies when e quoted sentence in ading on line 34 of p	I, Comm ecified balanced o is is nonsensical e other requirement believe the inten in the PD PI is man in the comment), page 206 (previou	Unbalan cabling connector I. This is a dual of a ent (one for single-sig, t is that that ated to the specified and insert new us paragraph begins or	
Two spaces missing. SuggestedRemedy Change to: "PD45 Input average po Proposed Response PROPOSED ACCEPT. C/ 145A SC 145A.5 Seboodt, Lennart Comment Type E "(e.g. V f1 ? V f3).The	ower exceptions for Class 6 and <i>Response Status</i> W <i>P</i> 278 Philips Lighting <i>Comment Status</i> D	d Class 8 singl	e-signature PDs" # [<u>r01-285</u>]	Zimmerman, George Comment Type TR "The PD PI connect (plug) shall meet th comment on 145.2 and the same for correquirement should balanced cabling co SuggestedRemedy delete page 205 lin paragraph after the line 29 "Dual-sign:	Com tor (jack) wh e requireme 8.5.1. There ual-sig) liste be stated so print for the stated so print for the states so states so for the states	Aquantia, AD ment Status D en mated with a spents of 145.3.8.9" - the e is actually only one d in 145.3.8.9 and I o that it applies when e quoted sentence in ading on line 34 of p all not exceed"), no	I, Comm ecified balanced on is is nonsensical e other requirement believe the inten in the PD PI is man in the comment), page 206 (previou ew paragraph to	Unbaland cabling connector I. This is a dual of a ent (one for single-sig, t is that that ated to the specified and insert new us paragraph begins or read ""The unbalance	
Two spaces missing. SuggestedRemedy Change to: "PD45 Input average po Proposed Response PROPOSED ACCEPT. C/ 145A SC 145A.5 (seboodt, Lennart Comment Type E "(e.g. V f1 ? V f3).The Missing space.	ower exceptions for Class 6 and <i>Response Status</i> W <i>P</i> 278 Philips Lighting <i>Comment Status</i> D	d Class 8 singl	e-signature PDs" # [<u>r01-285</u>]	Zimmerman, George Comment Type TR "The PD PI connect (plug) shall meet th comment on 145.2 and the same for correquirement should balanced cabling co SuggestedRemedy delete page 205 lin paragraph after the line 29 "Dual-sign: current requiremer	Com tor (jack) wh e requireme 8.5.1. There ual-sig) liste be stated so onnector. es 50-51 (th sentence en ture PDs sh t for both sin	Aquantia, AD ment Status D en mated with a spents of 145.3.8.9" - the e is actually only one d in 145.3.8.9 and I o that it applies when e quoted sentence in ading on line 34 of p all not exceed"), no	I, Comm ecified balanced on is is nonsensical e other requirement believe the inten in the PD PI is man in the comment), page 206 (previou ew paragraph to ual-signature PDs	Unbaland cabling connector I. This is a dual of a ent (one for single-sig, t is that that ated to the specified and insert new us paragraph begins or read ""The unbalance s applies at the PD PI	
Two spaces missing. SuggestedRemedy Change to: "PD45 Input average po Proposed Response PROPOSED ACCEPT. CI 145A SC 145A.5 (seboodt, Lennart Comment Type E "(e.g. V f1 ? V f3).The Missing space. SuggestedRemedy	ower exceptions for Class 6 and <i>Response Status</i> W <i>P</i> 278 Philips Lighting <i>Comment Status</i> D	d Class 8 singl	e-signature PDs" # [<u>r01-285</u>]	Zimmerman, George Comment Type TR "The PD PI connect (plug) shall meet th comment on 145.2 and the same for correquirement should balanced cabling co SuggestedRemedy delete page 205 lin paragraph after the line 29 "Dual-sign: current requiremer	Com tor (jack) wh e requireme .8.5.1. Ther ual-sig) liste be stated so onnector. es 50-51 (th sentence en ture PDs sh t for both sin ben mated w	Aquantia, AD ment Status D en mated with a spents of 145.3.8.9" - the is actually only one d in 145.3.8.9 and I o that it applies when e quoted sentence in horing on line 34 of p all not exceed"), no gle-signature and du	I, Comm ecified balanced on is is nonsensical e other requirement believe the inten in the PD PI is man in the comment), page 206 (previou ew paragraph to ual-signature PDs	Unbalance cabling connector I. This is a dual of a ent (one for single-sig, t is that that ated to the specified and insert new us paragraph begins on read ""The unbalance s applies at the PD PI	
Two spaces missing. SuggestedRemedy Change to: "PD45 Input average po Proposed Response PROPOSED ACCEPT. CI 145A SC 145A.5 Yseboodt, Lennart Comment Type E "(e.g. V f1 ? V f3).The	ower exceptions for Class 6 and <i>Response Status</i> W <i>P</i> 278 Philips Lighting <i>Comment Status</i> D	d Class 8 singl	e-signature PDs" # [<u>r01-285</u>]	Zimmerman, George Comment Type TR "The PD PI connect (plug) shall meet th comment on 145.2 and the same for c requirement should balanced cabling c SuggestedRemedy delete page 205 lin paragraph after the line 29 "Dual-sign current requirement connector (jack) w	Com. tor (jack) wh e requireme 8.5.1. There ual-sig) liste be stated so onnector. es 50-51 (th sentence en ture PDs sh t for both sin hen mated w <i>Respo</i>	Aquantia, AD ment Status D en mated with a spents of 145.3.8.9" - the is actually only one d in 145.3.8.9 and I o that it applies when e quoted sentence in nding on line 34 of p all not exceed"), no gle-signature and du th a specified balance	I, Comm ecified balanced on is is nonsensical e other requirement believe the inten in the PD PI is man in the comment), page 206 (previou ew paragraph to ual-signature PDs	Unbalance cabling connector I. This is a dual of a ent (one for single-sig, t is that that ated to the specified and insert new us paragraph begins on read ""The unbalance s applies at the PD PI	

C/ 1 SC 1.4.418ac	P 25	L 35	# r01-288	C/ 145 S	C 145.2.3	P 110	L 4	# r01-290
Zimmerman, George	Aquantia, ADI	, Comm		RAN, ADEE		Intel Corporation		
Comment Type T	Comment Status D		Definitions	Comment Type	E	Comment Status D		Editorial
Definition of Type 4 PD	doesn't work for dual-signat	ure PDs.				to be an elaboration of the conten	t of 145.2.	2. If so, it should be
SuggestedRemedy					ally positione	ed under it.		
Change 1.4.418aa and	1.4.418ac to read:			SuggestedRen	-			
1 4 41822 Type 3 PD.	A single-signature PD that re	nuests Class 1	to Class 6, or a dual-			th-order so that it becomes 145.2.2	2.1.	
signature PD that reque classification. Addition	ests Class 1 to Class 4 on bo ally, the PD implements Mult	th Modes during	g Physical Layer sification, and accepts	Proposed Res PROPOSE	oonse D REJECT	Response Status W		
power on both Modes s	imultaneously. (See IEEE 80	2.3, Clause 14	5).	OOS				
signature PD that reque classification. Addition	A single-signature PD that re est Class 5 on at least one M ally, the PD implements Mul cation, and accepts power o	ode during Physicial class	sical Layer sification, is capable of		about PSE about Midsp	Location. Dan varients (specifically about data	a rates).	
IEEE 802.3, Clause 14	5).				C 145.2.4	P 115	L1	# r01-291
Proposed Response	Response Status W			RAN, ADEE		Intel Corporation		
PROPOSED ACCEPT.				Comment Type	T	Comment Status D		PSE PI
OOS						"PI pin assignments" but it also de ts about them, so it's not just pin as		
C/ 145 SC 145.3.3.1	P177	L 53	# r01-289	The paralle	el subclause	o for the PI is titled "PD PI".		
RAN, ADEE	Intel Corporat	ion		SuggestedRen	nedy			
Comment Type E	Comment Status D		PD SD		nis subclaus	e "PSE PI".		
Three subclauses (this diagrams, which are all	one, 145.2.5.2, and 145.5.3. the same.	1) define conve	ntions for state	Proposed Res	oonse ED ACCEPT	Response Status W		
	r readers to have one subcla ble "conventions" subclauses		tions under 145.1,	OOS				
SuggestedRemedy								
Move the content of 14	5.2.5.2 to a new subclause 1	45.1.5.						
Refer to that subclause	in 145.2.5, in 145.3.3, and i	า 145.5.3.						
Delete 145.2.5.2, 145.3	3.3.1, and 145.5.3.1.							
Proposed Response	Response Status W							
PROPOSED REJECT.	,							
OOS								
This commont is Out a	Scope and does not fix and	hing tochoically	, brokon					
This comment is Out of	Scope and does not fix any	ring technically	DIOKEII.					

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

	C/ 145 SC 145.3.3.3 P178 L13 # r01-293
Cl 145 SC 145.3.3.2 P 178 L 3 # [r01-292] RAN, ADEE Intel Corporation Intel Corporation Intel Corporation Intel Corporation	Cl 145 SC 145.3.3.3 P 178 L 13 # r01-293 RAN, ADEE Intel Corporation Intel Corporation Intel Corporation Intel Corporation
Comment Type G Comment Status D Editoria	Comment Type G Comment Status D Editoria
The text in this subclause is equivalent to what was already written in the last paragraph of 145.3.3:	Subclauses 145.3.3.3 through 145.3.3.7 discuss single-signature PDs.
'All the parameters that apply to Mode A and Mode B are denoted with the suffix "_mode(X)" where "X" can be "A" or "B". A parameter that ends with the suffix "_mode(X)" may have different values for Mode A and Mode B in the independent state diagrams.'	Subclauses 145.3.3.4 through 145.3.3.12 are the equivalent of the above for dual-signature PDs. It would be friendlier for readers (who may be interested in only one kind of PDs) to separate these clauses hierarchically. It would also be consistent with the similar structure of 145.5.3.
Unless there is some other information (which I can't see), this repetition is unnecessary and may confuse readers.	SuggestedRemedy
SuggestedRemedy	Create a subclause hierarchy as follows:
Delete this subclause. Proposed Response Response Status W PROPOSED REJECT. OOS This comment is out of scope and does not fix something that is technically broken.	 145.3.3.3 Single-signature PD state diagrams 145.3.3.3.1 Constants 145.3.3.3.2 Variables 145.3.3.3.3 Timers 145.3.3.3.4 Functions 145.3.3.4 Functions 145.3.3.4 Dual-signature PD state diagram 145.3.3.4.1 Constants 145.3.3.4.2 Variables 145.3.3.4.2 Variables 145.3.3.4.3 Timers 145.3.3.4.5 State diagram Consider also moving the following text from 145.3.3: "Single-signature PDs shall provide the behavior of the state diagram shown in Figure 145-26 and Figure 145-27" - to the new 145.3.3.3 (and change to "diagrams" per other comment)
	"Dual-signature PDs ()" (the whole second paragraph) to the new 145.3.3.4. Proposed Response Response Status W
	PROPOSED REJECT.
	OOS
	This comment is out of scope and does not fix anything technically broken.

Cl 145 SC 145.3.3 P 177 L 42 # [r01-294] RAN, ADEE Intel Corporation Intel Corporation Intel Corporation Intel Corporation	C/ 145 SC 145.2.5.7 P 138 L 3 # r01-296 RAN, ADEE Intel Corporation Intel Corporation Intel Corporation Intel Corporation
Comment Type E Comment Status D Editorial The title is "PD state diagram" and the text mentions a diagram, but there are three state diagrams. E E E	Comment Type T Comment Status D Editorial This diagram uses an empty pentagon to denote a transition from a state on another page, where the "to" arrows include the state name. Editorial
SuggestedRemedy Change the title to "PD state diagrams".	This notation does not have precedence in other state diagrams (according to a non-thorough search).
Also change "diagram" to "diagrams" in the first paragraph (the second paragraph is fine). <i>Proposed Response</i> Response Status W PROPOSED ACCEPT.	The corresponding state diagram in clause 33 uses letters inside pentagons for both "from" and "to" directions. This is the common convention in other clauses I know. Introducing a new graphical convention without explanation is may be confusing for readers.
OOS	This also applies to the Single-signature PD state diagram in 145.3.3.7.
C/ 145 SC 145.3.3.12 P 189 L 1 # [r01-295] RAN, ADEE Intel Corporation Intel Corporation Editorial	SuggestedRemedy Revert to the common convention of including the same identifier in both "from" and "to" pentagons (using state names instead of single letters is okay).
For this case there is only one state diagram.	Alternatively, add text in the "conventions" subclause to describe this new convention.
SuggestedRemedy Change "diagrams" to "diagram".	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
Proposed Response Response Status W PROPOSED ACCEPT.	OOS
	Append to 145.2.5.2 as follows:
	"State diagrams may span over multiple pages. Arcs between states located on a different page within the same state diagram are drawn using a label containing the destination state's name at the originating state. An empty label is used at the destination state to indicate that there exists an entry, or entries, from another state."

Cl 145 SC 145.3.4 P 216 L 38 # [r01-297] RAN, ADEE Intel Corporation Intel Corporation Intel Corporation Intel Corporation	C/ 145 SC 145.3.6.1.1 P 196 L 34 # [r01-299] RAN, ADEE Intel Corporation Intel Corporation Intel Corporation Intel Corporation
Comment Type E Comment Status D Editorial	Comment Type T Comment Status D PD Class
The signature requirements from a PD are stated in great detail before the concept of signature is introduced (P217 L1).	The newly inserted text about hysteresis is stated in weasel-words. "is required to" sounds like a normative statement.
For non-expert readers, this may be difficult to understand.	If it is a normative requirement then it should include a "shall" and a definition of what hysteresis is appropriate (which would enable judging for compliance).
I am aware that this subclause structure is based on 33.3.4; It would be good to also change that subclause in maintenance.	Also, there may be ways other than hysteresis to avoid erroneous transitions.
SuggestedRemedy Move the text starting from "The detection signature is a resistance calculated" and ending	As it stands, this seems to be a recommendation (which makes sense), so it should be stated as a recommendation.
with "the characteristics in Table 145-22" (inclusive) to the beginning of this subclause.	SuggestedRemedy
Proposed Response Response Status W PROPOSED REJECT.	Change "Appropriate hysteresis in the VMark_th threshold voltage is required to avoid erroneous transitions"
Comment is out of scope and as the commenter points out, the structure of this section is based on clause 33.	to "Implementations should employ appropriate methods (such as hysteresis in VMark_th) to avoid erroneous transitions"
Cl 145 SC 145.3.4 P 191 L 17 # [r01-298] RAN, ADEE Intel Corporation Intel Corporation Intel Corporation Intel Corporation	Proposed Response Response Status W PROPOSED ACCEPT.
Comment Type T Comment Status D PD Detection	C/ 145 SC 145.2.7.2 P175 L 32 # r01-300
I think a PD must not present a detection signature outside of the limits in the table,	RAN, ADEE Intel Corporation
regardless of the reason (for example, it must also not happen when a PD tries to avoid detection).	Comment Type E Comment Status D Editoria
Therefore, "that requests power" is an unneeded limitation.	Since Autoclass is optional it would be good to have the subclause heading state that. This is commonly done in the high-speed PHY clauses (see for example 83.5.9).
The corresponding text in 33.3.4 is stated differently, and can be used instead.	Also holds for 145.3.6.2 (PD autoclass).
SuggestedRemedy	SuggestedRemedy
Charge from	Append "(optional) to the headings of subclauses 145.2.7.2 and 145.3.6.2.
Change from	
"A PD that requests power by presenting" to	Proposed Response Response Status W
"A PD that requests power by presenting"	Proposed Response Response Status W PROPOSED ACCEPT.
"A PD that requests power by presenting" to	

C/ 145 SC 145.3.8 P 197 L 28 # [r01- RAN, ADEE Intel Corporation		C/ 145 RAN, ADEE	SC 145.5	P 256 Intel Corporation	L 53	# r01-303
Comment Type G Comment Status D "PD power" seems not to be good heading for this subclause, since it deals also w voltage, currents, slew rates, etc. However I'm not sure what the title should be.	vith	SuggestedRe	nd paragraph <i>medy</i>	Comment Status D of 145.5 seems to belong to 145 the end of 145.5.1.	5.5.1 TLV fra	<i>Editoria</i> me definition.
SuggestedRemedy Consider changing to a better title. Proposed Response Response Status W	P		sponse ED ACCEPT	Response Status W		
PROPOSED REJECT.	-	OOS C/ 145 RAN, ADEE	SC 145.5.3	P 223 Intel Corporation	L 19	# [r01-304
This comment is out of scope and does not provide a specific remedy. Cl 145 SC 145.4.9 P 216 L 23 # [r01- RAN, ADEE RAN, ADEE Intel Corporation		has diag	was changed ram" referring	Comment Status D d to "diagrams" in the previous p to two different diagrams, twice		
Comment Type G Comment Status D (After 'If the existing FD configuration is of the "Cross-connect model" type, the Mi PSE') The phrase "needs to" was changed to "can". Both are not clear standard languag	S	which is c Dual-sign SuggestedRe	ptional. Is the ature PD? (I a medy	numbered in the clean documer "shall" appropriate for it too? Is am not sure about this) diagrams" twich in the second pa	there a para	
According to the style manual, "can" is equivalent to "is capable of", which seems inappropriate here. I think it should be a "may". In addition, the "shall" in the next statement is now the only normative requiremen "In addition" is inappropriate.	P	Consider Proposed Res	what to do wi	th the Autoclass state diagram. Response Status W		
SuggestedRemedy Change "can be" to "may be".		TFTD for	Autoclass sh	all		
Change "In addition, the installation of a Midspan PSE shall" to "An installation of a Midspan PSE shall"						
Proposed Response Response Status W						

PROPOSED ACCEPT.

C/ 145 SC 145.5.3.3.1 P 258 L 46 # [r01-305] RAN, ADEE Intel Corporation Intel Corporation Intel Corporation Intel Corporation	C/ 145 SC 145.5.3.6.1 P 234 L 40 # r01-307 RAN, ADEE Intel Corporation Intel Corpora
Comment Type E Comment Status D Editorial Why is information about a single variable stated before the list instead of at this variable's description?	Comment Type E Comment Status D Typo: "It's" should be "Its".
Also applicable in 145.5.3.4.1, 145.5.3.4.2, 145.5.3.6.2, 145.5.3.7.2, and 145.5.3.7.3 SuggestedRemedy In the definition of pse_initial_value, insert after the first sentence: "The value is quantized to fit the available resolution. Additional information on power levels for Classes 6 and 8 may be found in 145.3.8.2.1."	Also in 145.5.3.7.1, P281 L14. SuggestedRemedy Change per comment. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Observe represented
Delete the first paragraph of 145.5.3.3.1. Apply appropriate changes similarly in the other places indicated in the comment. Proposed Response Response Status W PROPOSED ACCEPT.	Change per comment. Also in 145.5.3.6.1, page 239, line 14 C/ 145 SC 145.5.3.6.2 P 274 L 16 # r01-308 RAN, ADEE Intel Corporation
CI 145 SC 145.5.3.3 P 223 L 39 # [r01-306] RAN, ADEE Intel Corporation Intel Corporation DLL	Comment Type E Comment Status D Editor The previous paragraph ends with "the following variables:" so the list of variables should appear right after it.
The field is in the TLV, which is a part of the LLDPDU. It is not a field of the LLDPDU.	But instead, we get this paragraph, which seems out of place.
Also in 145.5.3.6. SuggestedRemedy Change "the corresponding LLDPDU field" to "the corresponding Power via MDI TLV field". Change 145.5.3.6 in a similar manner.	SuggestedRemedy Move this paragraph (staring with "Dual-signature PSEs") to be the first paragraph in this subclause. Proposed Response Response Status W PROPOSED ACCEPT.
Proposed Response Response Status W PROPOSED ACCEPT.	OOS

C/ 145 SC 145.5.6 P 246 L 3 # [r01-309] RAN, ADEE Intel Corporation Intel Corporation Intel Corporation Intel Corporation	C/ 145 SC 145.7.2.4 P 252 L 19 # [r01-310] RAN, ADEE Intel Corporation Intel Corporation Intel Corporation Intel Corporation
Comment Type T Comment Status D DLL "The PSE and PD utilize the LLDPDUs" LLDPDUs are data blocks sent over the LLDP protocol. They contain many other things, not just PSE and PD stuff. DLL	Comment Type T Comment Status X Pres: Chabot1 Item "*MID" has status "O/1" which means it is mutually exclusive with item "*CL" (per 21.6.2 definition: "one and only one of the group of options labeled by the same numeral <n> is required" Is Midspan PSE incompatible with "Implementation supports Physical Layer classification"?</n>
It would be more adequate to refer to the Power over MDI TLV, or alternatively to the LLDP protocol. Also, a cross-reference would be useful.	From reading the corresponding subclauses, 145.2.3 and 145.2.7, it isn't clear to me why this is so.
Also, a closs-reference would be useful. SuggestedRemedy Change "utilize the LLDPDUs" to either: "Utilize the Power over MDI TLV (See 79.3.2)"	I suspect that the table is garbled and there should be mutually exclusive items for alternative A and alternative B (which currently does not appear at all), while Physical layer classification is simply optional.
or "Use the LLDP protocol (See Clause 79)"	SuggestedRemedy Edit the PICS item list to make it correct.
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	If there is indeed a reason for this mutual exclusion, include clear statements in the referenced subclauses.
OOS Change to: "use the LLDP protocol (See Clause 79)"	Proposed Response Response Status W TFTD WFP
	Cl 145 SC 145.7.3.1 P 253 L 8 # r01-311 RAN, ADEE Intel Corporation
	Comment Type T Comment Status D PICS Thankfully, the compatibility considerations in 145.1.1 are not stated as a mandatory requirement any more. Figure 145.1.1 are not stated as a mandatory Figure 145.1.1 are no
	SuggestedRemedy Delete item COM1.
	Proposed Response Response Status W PROPOSED ACCEPT.

C/ 145 SC 145.2.5.7 P142 L6 # r01-312	Cl 145 SC 145.2.5.7 P142 L3 # [101-313
Peker, Arkadiy Microsemi Corporation	Peker, Arkadiy Microsemi Corporation
Comment Type TR Comment Status D PSE SD	Comment Type TR Comment Status D PSE SI
This comment is marked CLASS_PROB_PRI_1. Wrong and impossible logic of pse_avail_pwr_pri >= 4) in the exit from CLASS_PROBE_PRI to IDLE_PRI if the input to CLASS_PROBE_PRI is only allowed for pse_avail_pwr_pri < 4 per the current option_class_probe definition. The option_class_probe definition is good for single-signature PD but cannot be used in the dual-signature part of the PSE state machine per the current implementation of the CLASS_PROBE_PRI exit logics.	This comment is marked CLASS_PROB_PRI_2. It is not clear why we used single option_class_probe for both primary and secondary with dual-signature and for single-signature. Few issues: a) What if the available power will be <4 for the primary alternative and the available power >4 for the secondary? b) the usage of option_class_probe for single-signature and dual-signature is not exactly the identical.
SuggestedRemedy	Therefore, the option_class_probe need to be separate for primary and secondary like in any other parameter in the spec for dual-signature that deals with class and power.
 In the exit from CLASSIFICATION_PRI to CLASS_PROBE_PRI, replace option_class_probe with option_class_probe_pri. 	SuggestedRemedy
 Add new variable option_class_probe_pri to the variable list with the following definition: "option_class_probe_pri This variable indicates if the PSE should determine the PD requested Class on the Primary 	Adopt the propose remedy to the comment marked CLASS_PROB_PRI_1. [It resolves both comment marked CLASS_PROB_PRI_1 and comment is marked CLASS PROB PRI 2.]
Alternative by issuing 3 class events. When set to TRUE, the PSE will issue 3 class events	Proposed Response Response Status W
to determine the PD requested Class, perform a classification reset by applying VReset for at least TReset to the PI (see Table 145-14), followed by a normal classification procedure.	PROPOSED ACCEPT IN PRINCIPLE.
Values: FALSE: The PSE will not probe for the PD requested Class. TRUE: The PSE probes for the PD requested Class." 3. Repeat the solution for the secondary.	OBE by 312
Proposed Response Response Status W PROPOSED ACCEPT.	

C/ 145 Peker, Ark		45.3.3.7	P 184 Microsemi Co	L 30	# r01-314	signature PD in page Proposed Response	•	ite variable list ac Status W	cordingly.	
,				ipolation		TFTD				
Comment			Comment Status X y other state machine) do	asa't pood to co	Pres: Yseboodt8	WFP				
-If PD PD is r -If PSE compli As a re -This b -Speci avoide -The n 802.3b make i Having 1) Viol 2) Pos (Comp	PI volta required E PI volt ant PSE esult, fa behavior fically, it d or cor eed to c t is und it option t to ption t the NC ation of sible ov	ge is drop du to limit its p age is drop f E. lling below V should not l f this behavior rected. cover in the f erstood but al. PPOWER sta tpowerdelay erload condi 0s doesn't ha	have infinite numbers of ue to overload or short cir- ower consumption to PCI for a duration longer than (PD <voff_pd pd="" w<br="" while="">be described in the PD st or cause violation of other PD state machine legacy we should not force this b ate route creates new non (_timer when going from F ition due to the assignmen ave this problem. le NOPOWER state or to</voff_pd>	cuit, this PD is neass_PD by desig allowed by the tr as powered is no ate machine. requirements in PD behavior and ehavior on comp compliant beha POWER_DELAY ht of (pse_power	gn. ransient spec, it is non- on-compliant behavior. I the spec, it should be I newly designs of oliant PDs and at least vior such to NOPOWER. _level <== 8)	Cl 145 SC 145.2.5 Peker, Arkadiy Comment Type TR In the text " temp_val it is not clear that tem is no meaning to com SuggestedRemedy Change from " temp_ pd_class_sig." To: " temp_var A variable Proposed Response PROPOSED ACCEP	Comment r A variable us np_var_pri stor npare between var A variable var A variable used to store Response	e the previous re those two in the used to store the the previous value Status W	alue of the state va sult of pd_class_s state machine. e value of the state	ig. Otherwise there
implen						Combining with chan	ge from comm	ent 158.		
it, inclu Option 1. Dele bypass 2a. De 2b) ade	1: NOPW ding the 2: ete the e sing the lete the d the fo	ER state fro e variables a exit from PO' 80msec tim assignment llowing text t	m the PD state machine v associated with it. WER_DELAY to NOPOW er.] pse_avail_pwr<==8 from o the variable pse_power ne value 8 is optional."	'ER. [This will re the NOPOWER	solve the issue of	Change from " temp_ pd_class_sig." To: " temp_var A variable	-			
variabl 2. Add option_ Implen VOff_F Values FALSE POWE	te the tw le. Char the var nopow nentatio PD durir D durir PD wi RED PD wi	ige the cond iable option_ er n specific va ig POWER_ Il not use N	NOPWER optional and periton of these two inputs to nopower to the variable li- ariable that indicates if PD DELAY or POWERED. OPOWER in case VPD < WER in case VPD < VOf	o (VPD <voff_pe ist. will go to NOPC VOff_PD during</voff_pe 	D) *option_nopower. DWER in case VPD <					
After s	electing	one of the p	proposed solutions or any	other solution, F	Repeat it for dual-					
TYPE· TR/	technic	al required F	=R/editorial required GR/	apperal required	T/technical E/editorial G/	reneral		Comm	ent ID r01-315	Page 80 of 123

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

Comment ID r01-315

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145 SC 145.2.5.4 P127 L11 # [r01-316	C/ 145 SC 145.2.5.7 P143 L 10 # r01-317
eker, Arkadiy Microsemi Corporation	Peker, Arkadiy Microsemi Corporation
omment Type TR Comment Status D	Comment Type TR Comment Status X PSE SL
In the text "temp_var_pri A variable used to store the value of the state variable pd_class_sig_pri for the Primary Alternative. " it is not clear that temp_var_pri store the previous result of pd_class_sig_pri. Otherwise there is no meaning to compare between those two in the state machine. <i>uggestedRemedy</i> 1) Change to "temp_var_pri A variable used to store the previous value of the state variable pd_class_sig_pri for the Primary Alternative. " 2) Repeat (2) for the secondary. <i>roposed Response Response Response Status</i> W	A problem was identified with the primary (and secondary) state machine that results with issuing 3 class events when the available power is 3 and powering up while the concept is to issue only one class event and powering up. The problem has been created at 4PID3_PRI state which doesn't allow going to CLASS_RESET_PRI in this scenario due to the questions if (temp_var_pri = 4) or not in the conditions at the exits of 4PID3_PRI. Example: Let's assume the following conditions: pse_avail_pwr_pri<4 Option_class_probe=FALSE class_4PID_mult_event_pri=TRUE pd_req_pwr_pri = class 3 (code 3,3,0). Now we are in CLASS_EV3_PRI.
PROPOSED ACCEPT IN PRINCIPLE.	
Combining with change from comment 158. 1) Change to "temp_var_pri A variable used to store the previous value of the variable pd_class_sig_pri for the Primary Alternative. " 2) Repeat (2) for the secondary.	Now, the previous temp_var_pri=3, the current pd_class_sig_pri=0, resulting with moving to 4PID3_PRI due to (pd_class_sig_pri not equal temp_var_pri)* (pd_class_sig_pri = 0)=TRUE. As a result, moving to MARK_EV_LAST_PRI, CLASS_EVAL_PRI and then POWER_UP. The end result is doing 3 class events and power up even if pse_avail_pwr_pri<4 While the concept requires doing 1 class event and power up. The problem resulted from the 4PID3_PRI exit that doesn't allow to go CLASS_RESET_PRI due to redundant question if (pse_avail_pwr_pri < 4) * (temp_var_pri = 4) while what is important is only if (pse_avail_pwr_pri < 4). If we remove the part (temp_var_pri = 4) and (temp_var_pri not equal 4) from both exits, this problem will be solved. This is not the end of this problem. Now After fixing it and doing CLASS_RESET_PRI and going to CLASS_EV1_LCE_4PID_PRI, we will not power because the access to MARK_EV_LAST_PRI is blocked by the condition tlce_timer_pri_done * (pd_class_sig_pri = 4) while pd_class_sig_pri=3. The proposed fix for it is to delete the part (pd_class_sig_pri = 4) and to delete the exit from CLASS_EV1_LCE_4PID_PRI to IDLE_PRI.
	SuggestedRemedy
	 Change the exit from 4PID3_PRI to CLASS_RESET_PRI from: (pse_avail_pwr_pri < 4) * (temp_var_pri = 4) To (pse_avail_pwr_pri < 4) Change the exit from 4PID3_PRI to MARK_EV_LAST_PRI from: (pse_avail_pwr_pri >= 4) + (temp_var_pri not equal 4) To: (pse_avail_pwr_pri >= 4) Change the exit from CLASS_EV1_LCE_4PID_PRI to to MARK_EV_LAST_PRI from: tlce_timer_pri_done * (pd_class_sig_pri = 4) To: tlce_timer_pri_done Delete the exit from CLASS_EV1_LCE_4PID_PRI to IDLE_PRI
	Proposed Response Response Status W
	TFTD

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

C/ 145 SC 145.7 P 250 L1 C/ 145 P196 L 22 # r01-320 # r01-318 SC 145.3.6.1.1 Jones, Chad Abramson, David Texas Instruments Inc Cisco Systems, Inc. Comment Type Е Comment Status D Pres: Chabot1 Comment Type TR Comment Status D PD Mark Submitted by the Chair on behalf of Craig Chabot: "When the PD is presenting a mark event signature in a DO MARK EVENT state, as PICS need to be updated to reflect changes in the normative text of the Clause 145 shown in the state diagram of Figure 145-26 and Figure 145-28, the PD shall draw IMark as defined in Table 145-25 and present a non-valid detection signature as defined in Table SuggestedRemedy 145-22." Adopt changes in chabot 01 1117.pdf This would prevent class 1-3 PDs from being able to show their detect signature during the Proposed Response Response Status W MARK state. Since these PDs are not required to count the class events, this requirement TFTD should not apply to them (the reason for the requirement is that PDs that count class pulses can count an extra pulse if they have a valid signature during mark and if plugged in WFP during a detect cycle). C/ 145 SC 145.3.6 P195 L12 # r01-319 NOTE: I haven't considered DS PDs... Abramson, David **Texas Instruments Inc** SuggestedRemedy Comment Type TR Comment Status D PD Mark Make this requirement only apply to class 4-8 PDs. The group has expressed a desire to deprecate clause 33 in the future. I have found one "When the PD is presenting a mark event signature in a DO_MARK_EVENT state, as case in which the clause 145 makes it harder/more expensive to build a compliant PD shown in the state diagram of Figure 145-26 and Figure 145-28, the PD shall draw IMark (without any real benefit) and thus I doubt users would move over the Type 3 and thus as defined in Table 145-25 and Class 4-8 PDs shall present a non-valid detection signature clause 33 would never be deprecated. as defined in Table 145-22." The case is that of Type 1 PDs. Clause 145 currently requires all Type 3 PDs to include a Proposed Response Response Status W mark signature, even class 1-3 PDs. This is a burden to the PD and we can elimate it PROPOSED ACCEPT. easilv. OOS I suggest that we only lower the minimum Mark Current for Class 1-3 Type 3 PDs which would allow the detect circuit already present in these PDs to be a compliant mark current. SuggestedRemedv Split item 3 of table 145-25 into two rows. The first row for class 1-3 with a minimum of 180uA. The second row for classes 4-8, with a minimum of 250uA. Proposed Response Response Status W PROPOSED ACCEPT. OOS

IEEE P802.3bt D3.1 4-Pair PoE 1st Sponsor recirculation ballot comments C/ 145 SC 145.3.3.7 P183 C/ 145 SC 145.1 P103 L15 # r01-323 L 22 # r01-321 Abramson, David Bullock, Chris Cisco Systems, Inc. Texas Instruments Inc Comment Type TR Comment Status D PD SD Comment Type E Comment Status D **F**ditorial In order to allow for the mark change in my other comments, we need to change the SD to Missing a serial comma. Add a comma after "Powered Device (PD)" allow for possibly valid detect signatures. SuggestedRemedy SuggestedRemedy Change: in state DO CLASS EVENT1: "They are the power supply, a non-data entity which is called the Power Sourcing change "present det sig <= invalid" Equipment (PSE), the powered load, another non-data entity to: which is called the Powered Device (PD) and the standards based, balanced, twisted-pair IF pd reg class>3 cabling connecting the two." present det sig=invalid ELSE To: present det sig=either "They are the power supply, a non-data entity which is called the Power Sourcing END Equipment (PSE), the powered load, another non-data entity which is called the Powered Device (PD), and the standards based, balanced, twisted-pair cabling connecting the two." Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT. OOS C/ 33 SC 33.4.9.3.1 P72 L 41 # r01-324 C/ 145 SC 145.3.8.1 P 201 L16 # r01-322 Mcclellan, Brett Marvell Semiconductor Lukacs, Miklos Silicon Laboratories Comment Type E Comment Status D Editorial Comment Type F Comment Status X PD Power Table 33-20b has a single entry. No table is required. It can be changed to an equation. It is confusing that multiple behaviors are listed in the sentence. SuggestedRemedy SuggestedRemedy Change Table 33-20b into equation 33-19a, change references in the text from Table 33-Change the text to: 20b to equation 33-19a When the PD is in POWER_DELAY or POWERED and Vpd falls below VOff_PD, the PD Do the same for Table 33-20c. transitions to NOPOWER and - depending on the value of Vpd - may show a valid or Change Table 33-20c into equation 33-19b. change references in the text from Table 33invalid detection signature, and may or may not draw mark current, draw any class current, 20c to equation 33-19b and show MPS. Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT. TFTD

Wait for 238

C/ 145	SC 145.3.8.		L 50	# r01-325	C/ 1	SC 1.4.3	338	P 24	L 51	# r01-326
Lemahieu, Jo	oris	ON Semicon	ductor		Stewart, H	leath		Analog Device	es Inc.	
Comment Ty	vpe GR	Comment Status X		Pres: Yseboodt4	Comment	Type EF	۲.	Comment Status D		Editorial
TTransie defined i It is unclu- PSE side power lin clearly d SuggestedRe Referring used, the Also note	ent as in Table 145-3 lear what exact e as well as P mits at PSE at lefined. Remedy g back to 802 e term "PSE I re 'TTransient' e "the operatin in Table 145-3	or TR2 is applied, the PD sha 30." ttly is meant by 'the operating D side. Moreover because th nd the PD are no longer "in sy 3-2015_SECTION2.pdf (p65: owerbound template" (p170-1 is the same as 'TLIM min'. g power limits after TTransier 30." by "the PSE lowerbound to <i>Response Status</i> W	power limits'. The voltage at the ync". Alsothe 'aft 3) where "PD up 72 in Draft3.1) is	he limits could be at PI is no longer static the er TTransient' is not perbound template" is s related.	Powel single or 100 proces pair P Std 80 10BA3 with a When Claus device data PSE. A DTE the pc provid 10GB	r Sourcing E link section. DBASE-T do ss these dat HYs. When D2.3, Clause SE-T, 100BA unified inter used with s e 104), DTE with a unified A PSE used E or midspar ower to a single 10	quipm . DTE evice v a. PSI used v 33 or ASE-T face fi ingle b powe ed inte with b o Powe gle lini 0BASI ce with	dundant with previous descri- nent (PSE): A DTE or midspa powering is intended to prov- with a unified interface for bo Es are defined for use with the with 2 or 4 pair balanced twis Clause 145), DTE powering X, 1000BASE-T, 2.5GBASE or both the data it requires a balanced twisted-pair (BASE bring is intended to provide a erface for both the data it reco- balanced single twisted-pair er over Ethernet (Clause 33 k section. DTE powering Por E-T, 100BASE TX, 1000BAS h a unified interface for both for	an device that p vide a single 10 oth the data it re wo different type sted-pair (BASE is intended to p -T, 5GBASE-T and the power to single 100BAS quires and the p PHYs is also re and Clause 145 wer over Etherr SE-T, 2.5GBAS	BASE-T, 100BASE-TX, equires and the power to es of balanced twisted- E-T) PHYs, (see IEEE provide a single , or 10GBASE-T device o process these data. e IEEE Std 802.3, E-T1 or 1000BASE-T1 power to process these iferred to as a PoDL 5) device that provides net is intended to E-T, 5GBASE-T, or
005					Suggestee	dRemedy				
WFP					Delete A DTE the po provid 10GB	e: E or midspar ower to a sing le a single 10	gle lini 0BASI ce with	er over Ethernet (Clause 33 k section. DTE powering Po E-T, 100BASE TX, 1000BAS n a unified interface for both t	wer over Etherr SE-T, 2.5GBAS	net is intended to E-T, 5GBASE-T, or
					Proposed	Response		Response Status W		
					PROF	POSED ACC	EPT I	IN PRINCIPLE.		
					OBE I	by 60				

C/ 1 SC 1.4.417	P 25	L 6	# r01-327	C/ 30	SC 30).9.1.1.9	P 39	L 29	# r01-331
Stewart, Heath	Analog Device	es Inc.		Stewart, H	leath		Analog [Devices Inc.	
Comment Type E	Comment Status D		Editorial	Comment	Туре -	т	Comment Status D		Managemer
a verb.	e does not quite work with the ass 4 during Physical Layer cl		·	no lon	iger needs		unter was split into 3 v e the primary and sec		aPSEOverLoadCounter
	a Link Layer classification (se			Suggested					
SuggestedRemedy				Chang This c		incremen	ted when the PSE sta	te diagram (Figure 3	3-9. Figure 145-13.
Add "supports" before	"Data Link Layer"			Figure	e 145-15, a	and Figur	e 145-16) enters the s	tate ERROR_DELA	
Proposed Response	Response Status W			ERRC	DR_DELA	Y_PRI, o	r ERROR_DELAY_SE	С.	
PROPOSED REJECT					counter is i the state			te diagram (Figure 3	3-9 and Figure 145-13)
Comment should addr	ess line 17. The change requ	lested is already	in the definition.	Proposed	Response	Э	Response Status W	1	
C/ 30 SC 30.9.1.1.		L 27	# r01-329	PROF	POSED AC	CCEPT.	,		
Stewart, Heath	Analog Device	es Inc.		C/ 145	SC 14	5.1.3	P106	L 18	# r01-334
Comment Type E	Comment Status D		Editorial	Stewart, H	leath			Devices Inc.	
version the NOTE- is n	StatusA and B both have simi nissing.	lar NOTE text. F	lowever, in the B	Comment	Туре І	E	Comment Status D		Editori
SuggestedRemedy							to pairset DC (loop) re		
,	A derivative attribute may wis	h to apply a dela	ay"		e contains et DC loop		dering which is inconsi	stent with the others	5.
Proposed Response	Response Status W			maxin	num pairse	et DC loo	p resistance		
PROPOSED ACCEPT	,			actual	DC pairse	et resista	nce		
				Suggestee					
OBE by 9				Chang actual to	ge I DC pairse	et resista	nce		
				actual	pairset D	C resista	nce		
				Proposed PROF	Response POSED AC		Response Status W	1	
				OOS					
				003					

Cl 145 SC 145.2.5.4 P 120 L 6 # [r01-335] Stewart, Heath Analog Devices Inc. Find the second s	C/ 145 SC 145.2.5.6 P 130 L 1 # [r01-338] Stewart, Heath Analog Devices Inc. Figure 100-338
Comment Type TR Comment Status D Editorial Typo during comment execution. Error_condition_pri appears twice. Second occurrence should be error_condition_sec. Editorial Editorial	Comment Type E Comment Status D Editorial This functions discovers. Should be function in the singular. SuggestedRemedy Editorial
SuggestedRemedy Change error_condition_pri to error_condition_sec.	Change This functions discovers
Proposed Response Response Status W	to This function discovers
PROPOSED ACCEPT IN PRINCIPLE. OBE by 149	Proposed Response Response Status W PROPOSED ACCEPT.
C/ 145 SC 145.2.5.4 P 121 L 42 # [r01-336] Stewart, Heath Analog Devices Inc. <	C/ 145 SC 145.2.8.5.1 P 166 L 18 # [r01-341] Stewart, Heath Analog Devices Inc. Analog Devices Inc. Image: Content of the second seco
Comment Type TR Comment Status D PSE SD	Comment Type E Comment Status D Editoria
option_detect_ted_timer_pri/sec both refer to ted_timer when they should be referring to their respective timers ted_timer_pri/sec.	Extraneous the. The degree to which the current is unbalanced depends on the specific combination of
SuggestedRemedy In description of option_ted_timer_pri change "ted_timer' to "ted_timer_pri" 3 times. In description of option_ted_timer_sec change "ted_timer' to "ted_timer_sec" 3 times.	PSE, cabling, and the PD. SuggestedRemedy
In description of option_ted_timer_pri change "ted_timer' to "ted_timer_pri" 3 times. In description of option_ted_timer_sec change "ted_timer' to "ted_timer_sec" 3 times.	PSE, cabling, and the PD.
In description of option_ted_timer_pri change "ted_timer' to "ted_timer_pri" 3 times. In description of option_ted_timer_sec change "ted_timer' to "ted_timer_sec" 3 times. Proposed Response Response Status W PROPOSED ACCEPT. CI 145 SC 145.2.5.5 P127 L 48 # [r01-337]	PSE, cabling, and the PD. SuggestedRemedy Change "and the PD" to "and PD" Proposed Response Response Status W PROPOSED ACCEPT. Cl 145 SC 145.2.8.5.1 P166 L 44 # r01-342
In description of option_ted_timer_pri change "ted_timer' to "ted_timer_pri" 3 times. In description of option_ted_timer_sec change "ted_timer' to "ted_timer_sec" 3 times. Proposed Response Response Status W PROPOSED ACCEPT. C/ 145 SC 145.2.5.5 P127 L48 # r01-337	PSE, cabling, and the PD. SuggestedRemedy Change "and the PD" to "and PD" Proposed Response Response Status W PROPOSED ACCEPT. C/ 145 SC 145.2.8.5.1 P166 L 44 # r01-342 Stewart, Heath Analog Devices Inc.
In description of option_ted_timer_pri change "ted_timer' to "ted_timer_pri" 3 times. In description of option_ted_timer_sec change "ted_timer' to "ted_timer_sec" 3 times. Proposed Response Response Status W PROPOSED ACCEPT. C/ 145 SC 145.2.5.5 P127 L 48 # [r01-337] Stewart, Heath Analog Devices Inc.	PSE, cabling, and the PD. SuggestedRemedy Change "and the PD" to "and PD" Proposed Response Response Status W PROPOSED ACCEPT. C/ 145 SC 145.2.8.5.1 P166 L 44 # r01-342 Stewart, Heath Analog Devices Inc.
In description of option_ted_timer_pri change "ted_timer' to "ted_timer_pri" 3 times. In description of option_ted_timer_sec change "ted_timer' to "ted_timer_sec" 3 times. Proposed Response Response Status W PROPOSED ACCEPT. C/ 145 SC 145.2.5.5 P127 L 48 # r01-337 Stewart, Heath Analog Devices Inc. Comment Type TR Comment Status D PSE SD and should be through tcev_timer_pri A timer used to limit the second and fourth class events SuggestedRemedy Change line 47 and line 51 second and fourth to	PSE, cabling, and the PD. SuggestedRemedy Change "and the PD" to "and PD" Proposed Response Response Status W PROPOSED ACCEPT. CI 145 SC 145.2.8.5.1 P166 L44 # r01-342 Stewart, Heath Analog Devices Inc. Comment Type TR Comment Status D Unbalancee It is extremely unclear how to interpret the shall which shalls the entire sections requirements. Are the requirements limited to the sections shalls? Thus did we shall the shall? SuggestedRemedy Delete The PSE PI connector (jack) when mated with a specified balanced cabling connector
In description of option_ted_timer_sec change "ted_timer' to "ted_timer_sec" 3 times. Proposed Response Response Status W PROPOSED ACCEPT. C/ 145 SC 145.2.5.5 P127 L 48 # r01-337 Stewart, Heath Analog Devices Inc. Comment Type TR Comment Status D PSE SD and should be through tcev_timer_pri A timer used to limit the second and fourth class events SuggestedRemedy Change line 47 and line 51 second and fourth	PSE, cabling, and the PD. SuggestedRemedy Change "and the PD" to "and PD" Proposed Response Response Status W PROPOSED ACCEPT. CI 145 SC 145.2.8.5.1 P166 L44 # r01-342 Stewart, Heath Analog Devices Inc. Comment Type TR Comment Status D Unbalance It is extremely unclear how to interpret the shall which shalls the entire sections requirements. Are the requirements limited to the sections shalls? Thus did we shall the shall? SuggestedRemedy Delete

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

C/ 145 SC 145.2.8.10 Stewart, Heath	P 172 Analog Devic	<i>L</i> 41 es Inc.	# r01-343	C/ 145 Stewart, He	SC 145.3. 2 eath	2	P 177 Analog Devic	L 40 es Inc.	# r01-346
Comment Type E Extraneous the.	Comment Status D		Editorial	Comment T Missing	Type E	Comme	nt Status D		Editoria
	ff in Table 145-16 shall app	ly to the PI volta	age in the IDLE.	PSE ar			ative pairs, but n	not required to sw	itch the positive pairs
Change				Suggested	Remedy				
	ff in Table 145-16 shall app	ly to the PI volta	age in the IDLE.	Change	e "defined 14	5.4.1.1.1" to "d	lefined in 145.4.1	.1.1"	
	ff in Table 145-16 shall app	ly to the PI volta	age in IDLE.	Proposed F		•	e Status W		
Proposed Response	Response Status W			PROPO	DSED ACCEI	PT.			
PROPOSED ACCEPT I	N PRINCIPLE.			C/ 145	SC 145.3.	3.3	P178	L 41	# r01-347
OBE by 215				Stewart, He		_	Analog Devic	es Inc.	
C/ 145 SC 145.3.2 Stewart, Heath	P 176 Analog Devic	L 35	# r01-344	Comment T The us			nt Status D s not clearly com	municated.	Nopowe
	0	es me.		Suggested	Remedy				
Comment Type E Link to Table 145-19 is b	Comment Status D				end of descri nopower is TF		ability between P	SE and PD is no	longer guaranteed.
SuggestedRemedy Fix link				Proposed F PROP	'	Respons PT IN PRINCIF	e Status W PLE.		
Proposed Response PROPOSED ACCEPT II	Response Status W N PRINCIPLE.			OBE by	/ 449				
OBE by 221				C/ 145 Stewart, He	SC 145.3.: eath	3.3	P 178 Analog Devic	L 45 es Inc.	# r01-348
C/ 145 SC 145.3.2 Stewart, Heath	P 177 Analog Devic	L 36 es Inc.	# r01-345	Comment T There a	51		<i>nt Status</i> D ower. This is cert	tainly a typo.	Nopowe
Comment Type E	Comment Status D		Editorial	Suggested	Remedy				
Text block is not aligned				Change	e				
SuggestedRemedy Fix alignment at "denote	s"			То		been in NOP			
Proposed Response	Response Status W			Proposed F			e Status W		
PROPOSED ACCEPT.					•	PT IN PRINCIP			
				OBE by	/ 449				

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

C/ 145 SC 145.		L 25	# r01-349	C/ 145		145.3.3.8	P185	L 40	# r01-351
Stewart, Heath	Ū.	evices Inc.		Stewart, H	eath		Analog Devi	ces Inc.	
Comment Type TR			PD SD	Comment		Е	Comment Status D		PD SL
	rely on the PSE inrush limitin er correctly to tInrush_PD m		sh_PD time (50ms). All				ere moved from the PD sir e same for dual-signatures		stants section to the
SuggestedRemedy				Suggested	Reme	dy			
	'D" to "tInrush_PD max" ge 188, lines 3 and 6.			Move Proposed			D, Von_PD and Vreset_tb Response Status W	to variables subc	lause.
Proposed Response	Response Status W				•		IN PRINCIPLE.		
PROPOSED ACC	EPT IN PRINCIPLE.			FRUF	USED	ACCEPTI	IN FRINCIFLE.		
OOS				OBE b	oy 228				
TFTD				C/ 145 Stewart, H		145.3.3.8	P 185 Analog Devi	L 47 ces Inc.	# r01-352
reality the PD just anything, it just ne	seems to imply that the PD r needs to be done with INRUS eds to be 50ms max. sh_PD in Table 145–29." to pa "	SH by 50ms, so if it u	ses a timer for	should Suggested Chang	d be min <i>Reme</i> o ge	rrored in th dy	Vreset_PD in the single-si e dual-signature PD const ge per pairset	ants section.	
	-9.			VRese	et_PD r	maximum 1	The maximum PD reset vo	tage	
C/ 145 SC 145. Stewart, Heath		L 27 evices Inc.	# r01-350	Proposed			Response Status W	-	
Comment Type TR	Comment Status D		PD SD		OOLD	AUGENTI			
The single-signature descript	re tpowerdly_timer descriptio	n has become out of	sync with the dual	OBE t	oy 229.				
A PD is allowed to	rely on the PSE inrush limitir	ng for the entire tinrus	sh_PD time (50ms).						
SuggestedRemedy									
Change A timer used to pr during thePSE's ir to A timer used to pr	event the PD from drawing m rush period; See Tdelay in Ta event the PD from drawing m o Tdelay. See Table 145-29.	able 145-29.							
Proposed Response	Response Status W								
PROPOSED ACC	•								
OOS									

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Comment ID Comment ID r01-352

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C/ 145 SC 145.3.3.9 P186 L 11 # [r01-353	C/ 145 SC 145.3.3.11 P190 L 29 # [r01-355
Stewart, Heath Analog Devices Inc.	Stewart, Heath Analog Devices Inc.
Comment Type TR Comment Status D PD	SD Comment Type T Comment Status D PD SD
The nopower_mode(X) variable is not defined. Copy the nopower variable description an implement.	In the single-signature state machine the pd_power_update is cleared in the POWERED state. In the dual-signature state machine the pd_power_update_mode(X) is cleared in the POWER UPDATE state. This may cause a race condition.
SuggestedRemedy	SuggestedRemedy
Insert variable definition: nopower mode(X)	Move pd power update mode(X) <= FALSE from POWER UPDATE to POWERED
A variable that indicates the PD has been in NOPOWER, which indicates VPD_mode(X)	
was below VOff_PD while being powered, since the last time VPD_mode(X) was below VReset for at least TReset. When nopower is TRUE interoperability between PSE and P	Proposed Response Response Status W PROPOSED ACCEPT.
is no longer guaranteed.	FROFOSED ACCEPT.
Values:	OOS
FALSE: The PD mode has not been in NOPOWER. TRUE: The PD mode has been in NOPOWER.	CI 145 SC 145.3.8.9 P205 L 50 # r01-356
Proposed Response Response Status W	Stewart, Heath Analog Devices Inc.
PROPOSED ACCEPT IN PRINCIPLE.	Comment Type TR Comment Status D Unbalance
OBE by 449	It is extremely unclear how to interpret the shall which shalls the entire sections requirements. Are the requirements limited to the sections shalls? Thus did we shall the shall?
C/ 145 SC 145.3.3.9 P 186 L 11 # [r01-354] Stewart, Heath Analog Devices Inc. <	SuggestedRemedy
Comment Type E Comment Status D PD	SD Delete The PD PI connector (jack) when mated with a specified balanced cabling connector (plug)
The pd_current_limit variable was removed from the single-signature state machine but	shall meet the requirements of 145.3.8.9.
was not removed from the dual-signature state machine.	Proposed Response Response Status W
SuggestedRemedy	PROPOSED ACCEPT IN PRINCIPLE.
Remove variable definition pd_current_limit_mode(X) definition and from Figure 145-28 OFFLINE, IDLE, INRUSH, NOPOWER, POWER_DELAY and POWERED states.	OBE by 287
Proposed Response Response Status W	
PROPOSED ACCEPT IN PRINCIPLE.	
OBE by 230	
,	

C/ 145 SC	145.5.3.3.1	P 225	L 25	# r01-357	C/ 145	SC 145.5.3.	6.2	P 235	L 45	# r01-359
Stewart, Heath		Analog Devic	es Inc.		Stewart, Hea	ath		Analog Device	es Inc.	
Comment Type	TR	Comment Status D		DLL	Comment Ty	/pe TR	Comment S	tatus D		DI
	able length.	value settings (class 6 and Perhaps this was in anticip			SuggestedR	emedy	needs to be up	dated to 35.6W	/ to track the res	st of the clause.
SuggestedReme	edy				Change	355 to 356				
Change 6 600 8 900	-				Proposed Re PROPO	•	Response S			
to 6 510					OOS					
8 713					OBE by	273				
Proposed Respo PROPOSED		Response Status W NPRINCIPLE.			C/ 145 Stewart, Hea	SC 145.5.3. ath		P 239 Analog Device	L 32 es Inc.	# <u>r01-360</u>
OBE by 255					Comment Ty	/pe TR	Comment S	tatus D		DI
C/ 145 SC	145.5.3.4.2	P 230	L 2	# r01-358	An old 3	5.5W number	needs to be up	dated to 35.6W	/ to track the res	st of the clause.
Stewart, Heath		Analog Devic			SuggestedR	emedy				
Comment Type	TR	Comment Status D		DLL	Change	355 to 356				
Some of the	ength. Perha	alue settings (class 6 and 8 ps this was in anticipation o			Proposed Re PROPO		Response S			
SuggestedReme					OOS					
Change 6 600					OBE by	274				
8 900 to					C/ 145C	SC 145C.1		P 287	L 29	# r01-361
6 510					Stewart, Hea	ath		Analog Device	es Inc.	
8 713					Comment Ty		Comment S			Editori
Proposed Respo PROPOSED		Response Status W				4 PD is correct 15C-2 show 25		ne adjancent te	ext as drawing 2	5.5W but Figure 145C-
OOS					SuggestedR Change	emedy 25W to 25.5V	V			
					Proposed Re	esponse	Response S	tatus W		

OBE by 39

IEEE P802.3bt D3.1 4-Pair PoE 1st Sponsor recirculation ballot comments

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

Stewart, Heath	I.6 P37 Analog Devic	L 32	# r01-363	C/ 145 SC Stewart, Heath	145.2.5.7	P 145 Analog Devi	L10	# r01-365
Comment Type TR	Comment Status D		Management	Comment Type	TR	Comment Status D	003 mo.	PSE S
*** Comment submitt	ed with the file 94875700003-	stewart_02_1117	Ũ	*** Comment	submitted	with the file 94875900003	-stewart_04_1117	.pdf attached ***
	7.pdf for remedy. Response Status W			not account f correctly refe pd_req_pwr_ limit of the PS The state ma The descripti The Class 0	or the upda rences pse xxx variabl SEs ability chine CLA on of pd_re encoding n	usage of pd_req_pwr_pri in ated usage of pse_allocate e_allocated_pwr to decide i e is intended to communic to know that information. SS_EVAL_PRI/SEC exit a eq_pwr_pri/sec need to be needs to be removed from t nce it is not a legal return v	d_pwr_xxx. The n f enough power e ate how much the rcs need to refere updated to correc he do_class_prob	nain PSE state diagram xists to turn on PD. The PD requested, to the ence the correct variable ttly describe the usage. be_pri/sec return
C/ 30 SC 30.12.2	.1.18h P45	L 2	# r01-364	SuggestedReme				
Stewart, Heath	Analog Devic	ces Inc.		See stewart_	04_1117.p	df		
Comment Type TR *** Comment submitt	Comment Status X ed with the file 94875800003-	stewart_03_1117	Management .pdf attached ***	PROPOSED	ACCEPT	IN PRINCIPLE.		
	DualSigPowerClassExtModeA BLoc/RemPowerClassExtA/B v Il make more sense.			and 485.		art_04_1117.pdf while com		
ill-formed aLldpXdot3	Loc/RemPowerClassExtA/B v			and 485.	es in stewa 145.2.8	P161	L 25	wilt of comments 484 # <u>r01-366</u>
ill-formed aLldpXdot3 these definitions it will	BLoc/RemPowerClassExtA/B v Il make more sense.			and 485. Cl 145 SC Stewart, Heath	145.2.8	P161 Analog Devi	L 25	# r01-366
ill-formed aLldpXdot3 these definitions it wil SuggestedRemedy See stewart_03_1117 Proposed Response	BLoc/RemPowerClassExtA/B v Il make more sense.			and 485. Cl 145 SC Stewart, Heath Comment Type	145.2.8 TR	P161	L 25 ces Inc.	# r01-366 Pres: Paul
ill-formed aLldpXdot3 these definitions it wil SuggestedRemedy See stewart_03_1117	BLoc/RemPowerClassExtA/B v II make more sense. 7.pdf for remedy.			and 485. <i>CI</i> 145 SC Stewart, Heath <i>Comment Type</i> *** Comment Changes ma	145.2.8 TR submitted de to unba	P161 Analog Devi Comment Status X	L 25 ces Inc. -paul_1117_01.pc ated interoperabili	# <u>r01-366</u> Pres: Paul If attached ***
ill-formed aLldpXdot3 these definitions it wil SuggestedRemedy See stewart_03_1117 Proposed Response	BLoc/RemPowerClassExtA/B v II make more sense. 7.pdf for remedy.			and 485. <i>CI</i> 145 SC Stewart, Heath <i>Comment Type</i> *** Comment Changes ma	145.2.8 TR submitted de to unba P values s	P161 Analog Devi Comment Status X with the file 94876000003 lance in Draft 3.1 have creation	L 25 ces Inc. -paul_1117_01.pc ated interoperabili	# <u>r01-366</u> Pres: Pau If attached ***
ill-formed aLldpXdot3 these definitions it wil SuggestedRemedy See stewart_03_1117 Proposed Response	BLoc/RemPowerClassExtA/B v II make more sense. 7.pdf for remedy.			and 485. <i>Cl</i> 145 <i>SC</i> Stewart, Heath <i>Comment Type</i> *** Comment Changes ma lunbalance-2	145.2.8 TR submitted de to unba P values s dy	P161 Analog Devi Comment Status X with the file 94876000003 lance in Draft 3.1 have creation	L 25 ces Inc. -paul_1117_01.pc ated interoperabili	# <u>r01-366</u> Pres: Paul If attached ***
ill-formed aLldpXdot3 these definitions it wil SuggestedRemedy See stewart_03_1117 Proposed Response	BLoc/RemPowerClassExtA/B v II make more sense. 7.pdf for remedy.			and 485. <i>CI</i> 145 SC Stewart, Heath <i>Comment Type</i> *** Comment Changes ma lunbalance-2 <i>SuggestedRement</i>	145.2.8 TR submitted de to unba P values s <i>dy</i> _1117.pdf	P161 Analog Devi Comment Status X with the file 94876000003 lance in Draft 3.1 have creation	L 25 ces Inc. -paul_1117_01.pc ated interoperabili	# <u>r01-366</u> Pres: Paul If attached ***

C/ 145 SC 145.4.9.4.1 P 222 L 1 # [r01-367] Mcclellan, Brett Marvell Semiconductor Marvell Semic	C/ 145 SC 145.7.3.3 P 265 L 12 # r01-369 Lemahieu, Joris ON Semiconductor ON Semiconductor Image: Content of the second sec
Comment Type E Comment Status D Editorial Table 145-38 has a single entry. No table is required. It can be changed to an equation. SuggestedRemedy	Comment Type G Comment Status D PIC "Meet the operating power limits after TLIM min" It is unclear what exactly is meant by 'the operating power limits'. PIC
Change Table 145-38 into equation 145-34a. change references in the text from Table 145- 38 to equation 145-34a Do the same for Table 145-39. Change Table 145-39 into equation 145-34b. change references in the text from Table 145- 39 to equation 145-34b	SuggestedRemedy Re-use "In accordance with ILIM-2P and TLIM in Table 145-16" as in PSE76 Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
Proposed Response Response Status W PROPOSED ACCEPT.	OBE by ??? TFTD
C/ 30 SC 30.9.1.1.5 P 36 L 11 # r01-368 Stewart, Heath Analog Devices Inc. Image: Contemport of the second	will be OBE by Yseboodt4 and Chabot1
Comment Type TR Comment Status D Management *** Comment submitted with the file 94876100003-stewart_01_1117.pdf attached ***	Cl 30 SC 30.12.3.1.18k P 56 L 17 # r01-370 Stewart, Heath Analog Devices Inc. #
Changes incorrectly pushed out to aPSEPowerDetectionStatus instead of aPSEPowerDetectionStatusS. This brings the removal of test mode into conflict with Clause 33.	Comment Type TR Comment Status X Manageme *** Comment submitted with the file 94876200003-stewart_03_1117.pdf attached ***
SuggestedRemedy See stewart_01_1117.pdf for remedy.	The aLldpXdot3Loc/RemPowerClassExt variable should contain Class enumerations but instead has a cut/paste error containing PSE/PD enumerations. Similar error to aLldpXdot3Loc/RemPowerClassExtA/B.
Proposed Response Response Status W	SuggestedRemedy
PROPOSED ACCEPT IN PRINCIPLE.	See stewart_03_1117.pdf for remedy.
Adopt changes shown in 94876100003-stewart_01_1117.pdf with the following change: make the "true" in the text "due to the variable error_condition = true" all caps ("TRUE")	Proposed Response Response Status W TFTD
in both aPSEPowerDetectionStatus and aPSEPowerDetectionStatusS.	OOS

Management

PICS

C/ 145 SC 14 .emahieu, Joris	45.3.8.6	P 204 ON Semicondud	L 40 ctor	# r01-371	C/ 145 SC Stover, David	145.2.8.5.		P 168 nalog Device	L 51 es Inc.	# r01-374
51	GR what is act	Comment Status X tually meant by The Source c	current specifie	<i>Pres:</i> Yseboodt4 d in Table 145-30.	Comment Type Iunbalance-2	ER 2P reference	<i>Comment Sta</i> es Table 145-16	_	n Table 145-17.	Editorial
SuggestedRemedy	,				SuggestedReme	dy				
		ified in Table 145-30 is actua			Change "as	defined in T	able 145-16" to	"as defined i	in Table 145-17"	
		oltage source with a current	limit of twice th	ils value may be used.	Proposed Respo	nse	Response Sta	tus W		
Proposed Response	e	Response Status W			PROPOSED	ACCEPT.				
TFTD					C/ 145 SC	145.1		P103	L 40	# r01-375
WFP					Stover, David	145.1	A	nalog Device		# 101-373
C/ 145 SC 14	45.3.8.6	P 204	L 40	# r01-372	Comment Type	Е	Comment Sta	-		Editorial
emahieu, Joris		ON Semicondue	ctor					_	ected to dynamic	ally negotiate and
Comment Type	GR	Comment Status D		Pres: Yseboodt4	allocate pow					
It is confusing w	what is act	tually meant by The Source r	esistance spec	cified in Table 145-30.	1) Are we we connected"?		the reader inter	preting this a	as "the PD to wh	ich it is not
					a) u u u u					
SuggestedRemedy	,						nt to "negotiate"	(and incorred	ctthe PSE alloc	ates power and/or the
The Source resi	sistance sp	pecified in Table 145-30 is ac			PSE request	is power).	nt to "negotiate"	(and incorred	ctthe PSE alloc	cates power and/or the
The Source resi single-signature	sistance sp	pecified in Table 145-30 is ac equivalent resistance betwe			PSE request	ts power). Edy	Ũ	,		
The Source resi single-signature this value.	sistance sp e PDs, the	equivalent resistance betwe			PSE request SuggestedReme Change: "A r	ts power). Ady method for a	a PSE and the F	D to which i	t is connected to	dynamically negotiate
The Source resi single-signature	sistance sp e PDs, the				PSE request SuggestedReme Change: "A r	ts power). edy method for a power" to ",	a PSE and the F	PD to which ir SE and a P	t is connected to	
The Source resi single-signature this value. Proposed Response TFTD	sistance sp e PDs, the	equivalent resistance betwe			PSE request SuggestedReme Change: "A r and allocate Proposed Respo	is power). dy method for a power" to ", onse	a PSE and the F A method for a l	PD to which ir SE and a P	t is connected to	dynamically negotiate
The Source resi single-signature this value. Proposed Response TFTD WFP	sistance sp e PDs, the	equivalent resistance betwe	en source and	load is actually half	PSE request SuggestedReme Change: "A r and allocate Proposed Respo PROPOSED Change: "A r	is power). dy method for a power" to ", onse 0 ACCEPT I method for a	a PSE and the F A method for a l <i>Response Sta</i> N PRINCIPLE. a PSE and the F	D to which in PD to which in PSE and a P tus W PD to which in	t is connected to D to dynamically t is connected to	o dynamically negotiate v negotiate power"
The Source resisingle-signature this value. Proposed Response TFTD WFP	sistance sp e PDs, the	e equivalent resistance betwe Response Status W P 204	L 47		PSE request SuggestedReme Change: "A r and allocate Proposed Respo PROPOSED Change: "A r and allocate	is power). dy method for a power" to ", onse 0 ACCEPT I method for a	a PSE and the F A method for a l <i>Response Sta</i> N PRINCIPLE. a PSE and the F	D to which in PD to which in PSE and a P tus W PD to which in	t is connected to D to dynamically t is connected to	dynamically negotiate negotiate power"
The Source resi single-signature this value. Proposed Response TFTD WFP C/ 145 SC 14 .emahieu, Joris	sistance sp e PDs, the	e equivalent resistance betwe Response Status W P204 ON Semiconduc	L 47	load is actually half # <u>r01-373</u>	PSE request SuggestedReme Change: "A r and allocate Proposed Respo PROPOSED Change: "A r	is power). dy method for a power" to ", onse 0 ACCEPT I method for a	a PSE and the F A method for a l <i>Response Sta</i> N PRINCIPLE. a PSE and the F	D to which in PD to which in PSE and a P tus W PD to which in	t is connected to D to dynamically t is connected to	o dynamically negotiate v negotiate power"
The Source resi single-signature this value. Proposed Response TFTD WFP Cl 145 SC 14 .emahieu, Joris Comment Type	sistance sp e PDs, the e 45.3.8.6 G	e equivalent resistance betwe Response Status W P 204 ON Semiconduc Comment Status X	L 47 L 47	load is actually half	PSE request SuggestedReme Change: "A r and allocate Proposed Respo PROPOSED Change: "A r and allocate	is power). dy method for a power" to ", onse 0 ACCEPT I method for a	a PSE and the F A method for a l <i>Response Sta</i> N PRINCIPLE. a PSE and the F	D to which in PD to which in PSE and a P tus W PD to which in	t is connected to D to dynamically t is connected to	o dynamically negotiate v negotiate power"
The Source resi single-signature this value. Proposed Response TFTD WFP C/ 145 SC 14 emahieu, Joris Comment Type "aThe source re This seems to c	45.3.8.6 G eontradict	e equivalent resistance betwe Response Status W P204 ON Semiconduc	L 47 L 47 ctor nce."	load is actually half # <u>r01-373</u> <i>Pres: Yseboodt4</i> Ch is the maximum	PSE request SuggestedReme Change: "A r and allocate Proposed Respo PROPOSED Change: "A r and allocate	is power). dy method for a power" to ", onse 0 ACCEPT I method for a	a PSE and the F A method for a l <i>Response Sta</i> N PRINCIPLE. a PSE and the F	D to which in PD to which in PSE and a P tus W PD to which in	t is connected to D to dynamically t is connected to	o dynamically negotiate v negotiate power"
The Source resi single-signature this value. Proposed Response TFTD WFP C/ 145 SC 14 emahieu, Joris Comment Type "aThe source re This seems to c	45.3.8.6 G contradict o resistance	P204 Comment Status X is the effective 4-pair resistar with 'Rch' in the table that is	L 47 L 47 ctor nce."	load is actually half # <u>r01-373</u> <i>Pres: Yseboodt4</i> Ch is the maximum	PSE request SuggestedReme Change: "A r and allocate Proposed Respo PROPOSED Change: "A r and allocate	is power). dy method for a power" to ", onse 0 ACCEPT I method for a	a PSE and the F A method for a l <i>Response Sta</i> N PRINCIPLE. a PSE and the F	D to which in PD to which in PSE and a P tus W PD to which in	t is connected to D to dynamically t is connected to	o dynamically negotiate v negotiate power" o dynamically negotiate
The Source resisingle-signature this value. Proposed Response TFTD WFP Cl 145 SC 14 emahieu, Joris Comment Type ("aThe source resisted compairset DC loop SuggestedRemedy	sistance sp e PDs, the se 45.3.8.6 G esistance contradict p resistance	P204 Comment Status X is the effective 4-pair resistar with 'Rch' in the table that is	L 47 L 47 ctor nce."	load is actually half # <u>r01-373</u> <i>Pres: Yseboodt4</i> Ch is the maximum	PSE request SuggestedReme Change: "A r and allocate Proposed Respo PROPOSED Change: "A r and allocate	is power). dy method for a power" to ", onse 0 ACCEPT I method for a	a PSE and the F A method for a l <i>Response Sta</i> N PRINCIPLE. a PSE and the F	D to which in PD to which in PSE and a P tus W PD to which in	t is connected to D to dynamically t is connected to	o dynamically negotiate v negotiate power"
The Source resisingle-signature this value. Proposed Response TFTD WFP Cl 145 SC 14 emahieu, Joris Comment Type ("aThe source resisted compairset DC loop SuggestedRemedy	sistance sp e PDs, the e 45.3.8.6 G esistance contradict o resistanco y Rchan o	e equivalent resistance betwe Response Status W P204 ON Semiconduc Comment Status X is the effective 4-pair resistar with 'Rch' in the table that is se, as defined in Table 145-1.	L 47 L 47 ctor nce."	load is actually half # <u>r01-373</u> <i>Pres: Yseboodt4</i> Ch is the maximum	PSE request SuggestedReme Change: "A r and allocate Proposed Respo PROPOSED Change: "A r and allocate	is power). dy method for a power" to ", onse 0 ACCEPT I method for a	a PSE and the F A method for a l <i>Response Sta</i> N PRINCIPLE. a PSE and the F	D to which in PD to which in PSE and a P tus W PD to which in	t is connected to D to dynamically t is connected to	o dynamically negotiate v negotiate power"
The Source resisingle-signature this value. Proposed Response TFTD WFP C/ 145 SC 14 comment Type C "aThe source reaction of the seems to compare the source reaction of the seems to compare the	sistance sp e PDs, the e 45.3.8.6 G esistance contradict o resistanco y Rchan o	e equivalent resistance betwe Response Status W P204 ON Semiconduc Comment Status X is the effective 4-pair resistar with 'Rch' in the table that is the adfined in Table 145-1. r replace 4-pair by pairset.	L 47 L 47 ctor nce."	load is actually half # <u>r01-373</u> <i>Pres: Yseboodt4</i> Ch is the maximum	PSE request SuggestedReme Change: "A r and allocate Proposed Respo PROPOSED Change: "A r and allocate	is power). dy method for a power" to ", onse 0 ACCEPT I method for a	a PSE and the F A method for a l <i>Response Sta</i> N PRINCIPLE. a PSE and the F	D to which in PD to which in PSE and a P tus W PD to which in	t is connected to D to dynamically t is connected to	o dynamically negotiate v negotiate power"

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

Comment ID r01-375

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C/ 145 SC 145.1.3	P105	L 45	# r01-376	C/ 145 SC 145.2.5.3	P118	L 1	# r01-379
Stover, David	Analog Device	es inc.		Stover, David	Analog Devic	es inc.	
source lcable" easily n	Comment Status D at provide Class 4 power or le hisinterpreted as though there h matches related Icable stat	is a minimum c	urrent requirement.	Missing "on".	Comment Status D , parallel detection means	that detection bo	<i>Editoria</i> th pairsets is done"
required to source lcat	tems that provide Class 4 po le" to "For 2-pair systems that ed in order for the PSE to sou Response Status W	t provide Class		Proposed Response PROPOSED ACCEPT IN	oth pairsets" to "that detec Response Status W N PRINCIPLE.	tion on both pairs	sets"
PROPOSED ACCEPT OOS	,			OBE by 141 <i>C</i> / 145 SC 145.2.5.4	P123	L8	# r01-380
C/ 145 SC 145.2.4 Stover, David	P 115 Analog Device	L 6 es Inc.	# r01-377	Stover, David Comment Type E "to determine the PD's T	Analog Devic <i>Comment Status</i> D ype" posessive.	es Inc.	Editoria
Comment Type E "are called Alternatives SuggestedRemedy Change "Alternatives A Proposed Response PROPOSED ACCEPT	Response Status W	orm	Editorial	SuggestedRemedy Change to "to determine do_class_probe_pri, do_ Proposed Response PROPOSED ACCEPT. OOS	PD Type" (four places; pd_ class_probe_sec). <i>Response Status</i> W	_cls_4PID_pri ar	nd pd_cls_4PID_sec,
OBE by 137	P 207	L17	# r01-378	C/ 145 SC 145.2.5.4 Stover, David	P 128 Analog Devic	L 43 es Inc.	# r01-381
Stover, David Comment Type T Vsource appears to be statements on page 20 resistance model inclu to achieve VPort_PSE SuggestedRemedy	Analog Device <i>Comment Status</i> X "any voltage in the range of V 6. Vsource is specified behin des PSE resistance contributi 2P at the virtual PSE output.	es Inc. /port_PSE-2P" d Rsource, while ons. Actually, Ve	<i>Unbalance</i> per the shall Rsource lumped	Comment Type ER tinrush_timer_sec referen SuggestedRemedy Change "Tinrush-2P" to ' Proposed Response PROPOSED ACCEPT. OOS	Comment Status D nces "Tinrush-2P", which n 'Tinrush". Response Status W	o longer exists.	Editoria

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

C/ 145 S	C 145.2.5.4	P 131	L 35	# r01-382	C/ 145 SC 145.2	.5.7	P140	L 5	# <u>r01-387</u>
Stover, David		Analog Device	es Inc.		Stover, David		Analog Devic	es Inc.	
and a value	statement "(p e of 3 for any	Comment Status D d_class_sig_pri will have a subsequent class events.)" hich indicates class_sig_a a	floating next to	pd_req_pwr_pri = 5. We	Comment Type TR Transition logic is o SuggestedRemedy		MI_PWRON_I	PRI and POWER_	<i>Editoria</i> DENIED
SuggestedRem	nedy				Change "!power_av				
Delete float	ting commen	t (2 locations: do_classificati	on_pri and do_	classification_sec).	Proposed Response	Response S			
Proposed Resp PROPOSE		Response Status W N PRINCIPLE.			PROPOSED ACCE OBE by 175		Ξ.		
OOS OBE by 16	5				C/ 145 SC 145.2 Stover, David	.8	P 162 Analog Devic	L 32 es Inc.	# <u>r01-388</u>
-	C 145.2.5.4	P132 Analog Device	L 51 es Inc.	# r01-383	Comment Type TR Ptype for Type 3 Pt	Comment SEs is never refere		re in the draft.	PSE Power
<i>Comment Type</i> Bad alignm		Comment Status D I." in definition of sig_type =	dual.	Editorial	SuggestedRemedy Delete Ptype for Ty	-			
SuggestedRem Fix alignme	nedy				Proposed Response PROPOSED REJE	-			
Proposed Resp PROPOSE	oonse D ACCEPT.	Response Status W			Ptype is referenced PType min is the m			of sourcing.	
OOS					Which is a requirer	nent on both Type	3 and Type 4	PSEs.	
C/ 145 So Stover, David	C 145.2.5.7	P 140 Analog Device	L 5 es Inc.	# <u>r01-386</u>					
Comment Type SEMI_PWF		Comment Status D s have an unusual format.		Editorial					
SuggestedRem Adjust state		o match state contents for SI	EMI_PWRON_	PRI, _SEC states.					
Proposed Resp PROPOSE		Response Status W N PRINCIPLE.							
OBE by 17	5								

C/ 145 SC 145.2.8 P 162 L 34 Stover, David Analog Devices Inc. Analog Devices Inc. Analog Devices Inc.	# r01-389	C/ 145 SC 145.2.5 Stover, David	5.7 P 143 Analog Device	L 22 es Inc.	# r01-391
Comment Type TR Comment Status D	PSE Power	Comment Type TR	Comment Status D		
Ptype,min for Type 4 PSEs is never referenced anywhere in the draft. listed value (75W) is wrong.	Furthermore, the	*** Comment submit	ted with the file 94876300003-st	tover_02_1117.p	odf attached ***
SuggestedRemedy			s diagrams, CLASS_EV1_LCE		
Delete Ptype, min for Type 4 PSEs. Replace with an endash, or simila a single value: 99.9W.	r, to indicate Ptype is	between class reset	"" as a double-check that PD clevents. Now that class_probe d valid class_sig (not just 4).		
Proposed Response Response Status W		To fix:			
PROPOSED REJECT.			ass_sig_x from class_ev1 is rec r_x to pd_class_sig_x when exit		
Ptype is referenced on page 173, line 6. It states:		SuggestedRemedy		-	
DTune min is the minimum network a DSE is capable of sourcing		Adopt stover_02_11	17.pdf		
PType min is the minimum power a PSE is capable of sourcing.		Proposed Response	Response Status W		
Which is a requirement on both Type 3 and Type 4 PSEs.		PROPOSED ACCEF	РТ.		
Cl 145 SC 145.3.2 P 176 L 48 Stover, David Analog Devices Inc.	# r01-390	C/ 145 SC 145.3.5 Stover, David	P 192 Analog Device	L 22	# r01-392
Comment Type E Comment Status D	Editorial		-	es me.	
"The PD shall withstand any voltage from 0V to 57V applied any of th configurations" missing a preposition		Comment Type TR *** Comment submit	Comment Status X ted with the file 94876400003-st	tover_01_1117.µ	PD Signature odf attached ***
SuggestedRemedy		Missing description of	f single-signature PD behavior	for VPD < 10.1V	/
Change "applied any of the valid" to "applied to any of the valid"		SuggestedRemedy			
Proposed Response Response Status W		Adopt stover_01_11	17.pdf		
PROPOSED ACCEPT IN PRINCIPLE.		Proposed Response	Response Status W		
OBE by 222		TFTD			
		OOS			

C/ 145 SC 145.3.8.		L 52	# r01-393	C/ 145 SC 145	.3.8	P 198	L 39	# r01-394
emahieu, Joris	ON Semicono	ductor		Johnson, Peter				
Comment Type GR	Comment Status X		Pres: Yseboodt4	Comment Type T		Comment Status D		PD Powe
backup power supplie TR3 is a very fast (0.7 related to load change having a lower interme expect the Cport to dia Peak currents way be For the rest the definit come from. Also how dual signature? The definition of TR3 SuggestedRemedy	ng ("lasting more than 250 is"	even 30us). For and final voltage ise times are sm ed to happen. y: where do the interpreted for s tely anyhow.	relatively fast transients e to be the same and all, one would not 5A 1.5ohm and 4ms	Draft 3.1 still has the issue where parameters entered as Maximums with no Min Table 145-29 are sometimes treated as ranges and sometimes treated as consta Example: Pport_PD (Items 8 and 9) are CLEARLY ranges, effectively from 0W t Pclass_PD. However Pclass_PD, Ppeak_PD, and their 2P equivalents are CLE constants and are used as such in the text (e.g. 145.3.8.2, 145.3.8.3) and similar PSE section (e.g. EQ 145-2). The PSE section does not have this problem as P Pclass_2P) are defined in equations with maximum possible values in Table 145 <i>SuggestedRemedy</i> Expand Table 145-11 to include Pclass_PD, Pclass_PD-2P, Ppeak_PD, and Pp. 2P (adding 2 columns). It is not inappropriate to place these in the PSE section there are equations in the PSE section that use all four parameters. Table 145- includes the column "Assigned Class" - so it has the correct index for these value THEN remove them from Table 145-29.				
Proposed Response	Response Status W			PROPOSED ACC		Response Status W		
TFTD WFP	,			Remove Pport_po	d and F nd para -signat on 145- i: * Iport	Pport_pd-2p from table 145-2 agraph of 145.3.8.2: "Pport_l ure PD, and by a Mode of a -23a.	PD and Pport_P	

C/ 145 SC 145.2.7 P156 L 32 # r01-395 Johnson, Peter	C/ 79 SC 79.3.2.6c P86 L10 # r01-397 Skinner, John
Comment Type T Comment Status D PSE Power Table 145-11 footnotes NOTE 1 and NOTE 2 should clarify that Pclass and Pclass-2P refer only to Table 145-11 and not more generally. PSE Power	Comment TypeEComment StatusDEditoriaFunction name for bits 13:12 in Table 79-6c-Power status field is "PD powering status".This does not agree with the field name in 79.3.2.6c.2 "PD powered status".
SuggestedRemedy Change to: NOTE 1: Pclass in Table 145-11 is the minimum E. NOTE 2: Pclass-2P in Table 145-11 is the minimumE Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	 SuggestedRemedy Correct text for bits 13:12 in in Table 79-6c-Power status to read "PD powered status", which is the accurate name for what this field indicates. Proposed Response Response Status W PROPOSED ACCEPT.
OOS Change to:	Cl 79 SC 79.3.2.6d.2 P87 L 50 # r01-398 Skinner, John
NOTE 1: Pclass in Table 145-11 is the minimum NOTE 2: Pclass-2P in Table 145-11 is the minimum C/ 145 SC 145.2.7 P 156 L 32 # r01-396 Johnson, Peter Comment Type T Comment Status D Editorial Table 145-11 footnotes NOTE 1 and NOTE 2 point to Tables 145-26 and 145-27 to get the "maximum power available ot PDs". Tables 145-26 and 145-27 provide "Requested Power" values but have no concept of assigned PD class that defines maximum power available. SuggestedRemedy	Clause heading text for 79.3.2.6d.2 is "PD 4PID". This does not agree with the field name in Table 79-6d-System setup field, "PD Load". This appears to be an editorial issue where the clause was actually intended to add a description of the new use for bit 2 in Table 79-4- Power type/source/priority field. <i>SuggestedRemedy</i> The clause should be renumbered 79.3.2.4.2 "PD 4PID", and should be located after line 44 on page 83. <i>Proposed Response</i> Response Status W PROPOSED ACCEPT IN PRINCIPLE.
These notes should point to whatever table relates PD assigned class to Pclass_PD and Pclass_PD-2P. (I have another comment that suggests that table should not be 145-29 but be 145-11 instead.)	OBE by 116 <i>C</i> / 145 SC 145.5.4 <i>P</i> 244 <i>L</i> 7 # r01-399 Skinner, John
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Change "For maximum power available to PDs,"	Comment Type E Comment Status D Editoria In the sentence "PSEs shall use values in the range defined in Table 145-41", the table reference is incorrect. Same problem exists for the reference on line 8 for PDs "Table 145-42".
to: "For PD requested power levels,"	SuggestedRemedy Change the table referenced on line 7 from Table 145-41 to Table 145-42. Change the table referenced on line 8 from Table 145-42 to Table 145-43. Proposed Response Response Status W PROPOSED ACCEPT.

C/ 145 SC 145.5.5.1 P245 L 20 # r01-400 Skinner, John	Cl 145 SC 145.5.6.2 P247 L4 # r01-401 Skinner, John
Comment Type E Comment Status D DLL The statement "When the PSE is not in sync with the PD, the PSE is allowed to change its power allocation." is too broad, based on the conditions shown in Figure 145-39. The transition from PSE_POWER_REVIEW to MIRROR_UPDATE is governed by the conditions: Either (pse_new_value < PSEAllocatedPowerValue) OR (PSEAllocatedPowerValue=MirroredPSEAllocatedPowerValueEcho). Therefore, the transition can only occur when the PSE is reducing the allocation OR when the PSE and PD are in sync.	Comment Type E Comment Status D DLL The statement "When the PSE is not in sync with the PD, the PSE is allowed to change its power allocation." is too broad, based on the conditions shown in Figures 145-43 and 145-44. The transition from PSE_POWER_REVIEW to MIRROR_UPDATE in Figure 145-43 is governed by the conditions: Either (pse_new_value_alt(X) < PSEAllocatedPowerValue_alt(X)) OR
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. OOS Change the statement in line 20 to "When the PSE is not in sync with the PD, the PSE is allowed to reduce its power allocation."	SuggestedRemedy Change the statement in line 4 to "When the PSE is not in sync with the PD, the PSE is allowed to reduce its power allocation.". Alternatively, remove the statement, as the conditions are correctly discussed in the paragraph starting on line 7. Proposed Response Response Status PROPOSED ACCEPT IN PRINCIPLE. OOS
	Change the statement in line 4 to "When the PSE is not in sync with the PD, the PSE is allowed to reduce its power allocation."

C/ 145 SC 145.5.7 P2	48 L 3	# r01-402		SC 79.3.2.6d Vair	.3 P88	L 32	# r01-404
Skinner, John Comment Type E Comment Status The statement "the PSE may update the procedure in 145.5.5.1." only defines how to apparent limitations discussed in 145.2.7.2 13) regarding Autoclass being solely used w SuggestedRemedy Modify the statement to add a reference to (dual signature) "the PSE may update the procedure in 145.5.5.1 (single signature) or Proposed Response Response Status PROPOSED ACCEPT IN PRINCIPLE. OOS Editor to note in sections 145.2.7.2 and 145	PSEAllocatedPowe o update Single Sig or 145.3.6.2 (or the with single Signatur the PSE state char e PSEAllocatedPov 145.5.6.2 (dual sig W	nature devices. There a e state diagram Figure 1 e Devices. nge procedure across a verValue and follow the inature)."	are no In th 45- the j field of M 2P r link have 1) T B" is fo clas 2) T 5001 Reg 3) T	t Type T comment is marked text for 79.3.2.6d ower type is PD. E shall mean greate ode A and any one inimum for Type 4 few issues: ne part "betwee is not clear and m the load during po- ification states. ne isolation during c) and is required barding the positive ness requirements	Comment Status X ad PDISO-1. .3 PD Load: "This field shall Electrically isolated for this b than or equal to 50 k ohm connection on Mode B, wh PSEs. This field shall be s in any one connection of Mo ay lead to overdesign. The of ower up and power on states detection of dual-signature between the negative conne pairs, this requirement is op are for Type 3 and 4 PSEs	it resistance betwee en measured using et to 0 when the po- de A and any one current isolation re- s and not during de PD need to be high ctions of Mode A a ptional.	n any one connection g at least VPort_PSE- ower type is PSE." we connection on Mode quirement of 50 Kohm etection and her than 50K (at least and Mode B.
PDs. Cl 33 SC 33.4.6 P6 Darshan, Yair Comment Type T Comment Status The coupled noise of 1mV for 2.5GHz to 10 SuggestedRemedy Change to 2mV Proposed Response Response Status TFTD	X IGHz is too small.	# [<u>r01-403</u>	AES to 0 To: "Th isola any pow dete for 1	rically isolated for een any one conne- sured using at lease when the power typ s field shall be set ted for this bit field one connection of er on states and 50 ction and classifica	d shall be set according to T this bit field shall mean great ection of Mode A and any or to VPort_PSE-2P minimum be is PSE." according to Table 79-6d w shall mean greater than or Mode A and any one conne 0K between the negative partion states, when measured PSEs. This field shall be set <i>Response Status</i> W	ater than or equal t ne connection on M for Type 4 PSEs. T hen the power type equal to 50 k ohm ction on Mode B in airs of Mode B dur d using at least VP	to 50 k ohm resistance Mode B, when This field shall be set e is PD. Electrically resistance between the powerup and ing connection check, ort_PSE-2P minimum

Cl 145 SC 145.2.5.1 P 116 L 49 # [r01-405] Darshan, Yair	C/ 145 SC 145.2.5.3 P117 L 49 # r01-406				
Comment Type T Comment Status D PSE SD	Comment Type T Comment Status D PSE SI				
It will help the reader if we add text in the intro to the state machine that the PSE state machine is based on the following concept: The primary alternative is the OmasterO and powering secondary is pending if primary is valid, so if primary fails detection, we donOt power the secondary regardless if its signature is valid or not. (As a result, if we want to power secondary if primary fails detection, we can flip by going to IDLE and set the other alternative as primary.)	The definition of parallel detection for single-signature and for dual-signature looks practically the same. As a result, the following text can be simplified: "For a single- signature PD, parallel detection means that detection on both pairsets is done within the Tdet time period. For a dual-signature PD, parallel detection means that detection on both pairsets is done within the same Tdet time period." SuggestedRemedy				
SuggestedRemedy Add the following text after line 49: "When PSE supports dual-signature PD, powering secondary is enabled if primary is valid regardless if secondary is valid. If powering secondary is needed when primary is not valid during 4-pair operation, it may be necessary to swap the roles pf Alternative A and Alternative B in IDLE in order to power the secondary."	Change from: "For a single-signature PD, parallel detection means that detection on both pairsets is done within the Tdet time period. For a dual-signature PD, parallel detection means that detection on both pairsets is done within the same Tdet time period." To: "Parallel detection means that detection on each pairset is done within the Tdet time period. See Annex 145B.1 for details."				
Proposed Response Response Status W	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.				
PROPOSED REJECT.					
OOS	OBE by 141				
The suggested remedy implies that when a DS PD is connected, the PSE powers both alternatives even without a valid detection signature on the secondary alternative. This is not true. Any pairset cannot be powered until a valid detection signature has been	Cl 145 SC 145.2.5.3 P117 L 50 # r01-407 Darshan, Yair				
detected on that pairset.	Comment Type E Comment Status D PSE SI				
Furthermore, if the intent of the comment is to alert the reader that a DS PD that has an invalid signature on the primary alternative (for some reason) will never have its secondary	In the text "For a dual-signature PD, parallel detection means that detection both pairsets is done within the same Tdet time period.": Missing "of". SuggestedRemedy Change from " "For a dual-signature PD, parallel detection means that detection both				
alternative powered, we already have a note for that. Quoting from line 39 on the same page:					
NOTE—During 4-pair operation, it may be necessary to swap the roles of Alternative A and Alternative B in IDLE in order to detect a PD.	pairsets is done within the same Tdet time period." To: "For a dual-signature PD, parallel detection means that detection of both pairsets is done within the same Tdet time period."				
	Proposed Response Response Status W				
	PROPOSED ACCEPT IN PRINCIPLE.				
	OBE by 141				

C/ 145 SC 145.2.5.3 Darshan, Yair	P117	L 52	# r01-408	C/ 145 Darshan, Y		5.2.5.3	P118	L 36	# r01-410
Comment Type T Comm	nent Status D		PSE SD	Comment	Type 1	т	Comment Status X		Altpwr
 The definition of staggered de same. As a result text can be sin In addition, typo in page 118 	mplified.	0	C	a PD o is powe	on the Prir ering the l	mary Alte Primary	Alternative.", looks it has a c	copy past error.	The part "is powering
SuggestedRemedy					mary Alte rd_sec va		need to be deleted. It should	a de similar to v	vhat we have in
Change from: "For a single-sign both pairsets is done in different				Suggested	IRemedy				
To: "Staggered detection means cycles. See Annex 145B.1 for de	ets is done in differe that detection on b	ent Tdet cycles."		Primar To: "T	y Alternat RUE: The	tive, is po	he PSE has detected, class owering the Primary Alternat as detected, classified, and v	ive."	
,	nse Status W			Alterna					
PROPOSED ACCEPT IN PRIN	CIPLE.			Proposed I TFTD	nesponse	7	Response Status W		
OBE by 141					110				
C/ 145 SC 145.2.5.3	P118	L1	# r01-409	waiting	g on 142				
Darshan, Yair	nont Statua		PSE SD	<i>C</i> / 145 Darshan, Y		5.2.5.4	P 119	L 41	# r01-411
Typo in the text "For a dual-sign pairsets is			hat detection both	Comment Link to	Type 1 table 79-	T 4 doesn	Comment Status D Ot work.		Editoria
done in different Tdet cycles.". T "of" is missing.	The "parallel" need t	to be staggered".	In addition, the word	Suggested	IRemedy link to Ta	able 70	1		
SuggestedRemedy				Proposed I					
Change from: "For a dual-signat pairsets is done in different Tdet cycles."	ure PD, parallel det	tection means that	at detection both		OSED AC		Response Status W		
To: "For a dual-signature PD, st done in different Tdet cycles."	aggered detection n	means that detec	tion of both pairsets is	C/ 145 Darshan, Y		5.2.5.4	P 120	L 7	# r01-412
Proposed Response Respo PROPOSED ACCEPT IN PRIN	nse Status W CIPLE.			Comment Variab	11.	T nas typo.	Comment Status D It is error_condition_sec.		Editoria
OBE by 141			Suggested Chang	IRemedy e to "errol	r_conditi	on_sec"			
				Proposed I	Response	9	Response Status W		

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

C/ 0 SC 0 Darshan, Yair	P 123	L 53	# r01-413	Cl 145 SC 145.2.5.4 P125 L 51 # [r01-416] Darshan, Yair
Comment Type E The variable pse_alloca SuggestedRemedy Change from "3: Class Proposed Response PROPOSED REJECT. Type 3 and 4 PSEs do	Comment Status D ated_power for value 3 need t 3" To: "3: Class 0, 3" Response Status W not allocate class 0 power. T			Comment Type T Comment Status D PSE SD 1. In the text "Controls the resetting of the PSE state diagram on Alternative B." it is Secondary Alternative and not Alternative B 2. The same in page 126 line 2. SuggestedRemedy Change from "Alternative B" to "Secondary Alternative" in both locations. Proposed Response Response Status W PROPOSED ACCEPT. PSE SD
Primary Alternative and 2. The same in line 46. SuggestedRemedy	Comment Status D the resetting of the PSE state	Ū		Cl 145 SC 145.2.5.4 P125 L 51 # [r01-417] Darshan, Yair Comment Type T Comment Status D PSE SD pse_reset_sec: change alternative B to secondary alternative. Same in page 126 line 2. SuggestedRemedy change alternative B to secondary alternative. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. OBE by 416
PROPOSED ACCEPT OBE by 156 Cl 145 SC 145.2.5.4 Darshan, Yair Comment Type T pse_reset_pri: change SuggestedRemedy change alternative A to	P 125 Comment Status D alternative A to primary altern	L 43 hative. Same in lir	# <u>r01-415</u> <i>PSE SD</i> ne 46.	Cl 145 SC 145.2.5.5 P127 L 48 # [r01-418] Darshan, Yair Comment Type T Comment Status D PSE SL Error in the tcev_timer_pri definition - the timer is relevant also to 3rd class event. SuggestedRemedy Change from " A timer used to limit the second and fourthE" to " A timer used to limit the second through fourthE". Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT IN PRINCIPLE. PSE SL PSE SL

C/ 145 SC 145.2	.5.5	P 127	L 51	# r01-419	C/ 145	SC 145.2.5.6		P 129	L18	# r01-421
Darshan, Yair					Darshan, Y	air				
Comment Type T	Comm	ent Status D		PSE SD	Comment	Гуре Т	Comment S	tatus X		PSE SI
Error in the tcev_tir	ner_sec defini	tion - the timer is r	elevant also to 3	rd class event.						de (we have it only if
SuggestedRemedy						through the state A: To add outpu				s class_error_pri OR
Change from " A tir to " A timer used to					the inp	ut to the IDLÉ_F	RI state in page	e 141.	ror_pri to the var	iable list and add it to
Proposed Response	Respon	se Status W			•	t this solution for	the secondary	as well.		
PROPOSED ACCE	PT IN PRINC	IPLE.			Suggested	,				
OBE by 160					class_	the variable clase error_pri				ass result was detected.
C/ 145 SC 145.2	.5.6	P 129	L 18	# r01-420	Values	0	during do_class	_probe_print		ass result was delected.
Darshan, Yair						: No invalid cla				
Comment Type T	Comm	ent Status X		PSE SD	-	Invalid class re nge the input co			rom	
The function do_cla go through the stat ways: Option A: To add o	es in the proce	edure when availab	le power >=4). V		To: sism *	(pse_reset_pri + (pse_reset_pri + at the above sol	error_conditior	 pri + iclass_	_lim_det_pri) _lim_det_pri+clas	ss_error_pri)
): To add nev	w variable class_er		e list and add it to the	Proposed I	Response	Response St	atus W		
SuggestedRemedy										
1. Add the variable class_error A variable indicatin Values: FALSE: No invalid TRUE: Invalid clas 2. Change the inpu (pse_enable = enal To: (pse_enable = enal	g if during do_ class result w s result was d condition to l ole) * (pse_res	class_probe functi ras detected. letected. IDLE in page 130 fi set + iclass_lim_de	rom: t + error_conditio	,	Waitin	g for 420				
Proposed Response	Respon	se Status W								
TFTD										
Why cap't arror co	dition he use	d for this?								

Why can't error_condition be used for this?

C/ 145 SC 145.2.5.6 P 130 L 3 # [r01-422] Darshan, Yair	C/ 145 SC 145.2.5.7 P135 L 33 # [r01-423] Darshan, Yair
Comment Type T Comment Status D PSE SD Inconsistent information between option_class_probe variable in page 121 line 29 and do_class_probe function on page 130 line 3. option_class_probe description indicates that PSE will issue exactly 3 class events to determine the PD requested class where do_class_probe description indicates that the PSE will issue a number of class events limited to CLASS_EV1_LCE to MARK_EV3. For determine the PD requested power the PSE need to issue exactly 3 class events and not any number limited by 3. SuggestedRemedy Change page 130 line 3from: "This functions discovers the PD requested Class by producing a number of class events. The class events produced are limited to CLASS_EV1_LCE to MARK_EV3. The tlce_timer in CLASS_EV1_LCE may be replaced with the tcle2_timer to allow abbreviated class timing duration. This function returns the following variables:" To: OThis functions discovers the PD requested Class by producing 3 class events. The class events produced are limited to CLASS_EV1_LCE to MARK_EV3. The tlce_timer in CLASS_EV1_LCE may be replaced with the tcle2_timer to allow abbreviated class timing duration. This function returns the following variables:"	Comment TypeTComment StatusDPSE SDThe condition from START_DETECT to DETECT_EVAL "!tdet_timer_done*((do_detect_pri_done*((det_temp = only_one) + (pse_alternative both))) +(do_detect_sec_done*(pse_alternative = both)* (det_temp = both_neither)))"contains two sets of redundant parenthesis that make it hard to red.If we replace the terms of the condition with letters we get: A*([B*(C+D)]+[E*F*G])). The redundant parenthesis where replaced with rectangular parenthesis to show their locations.No if we remove them, the logic is not changed and also the priority of the actions doesn't changed resulting with simplified and easy to read conditionA*(B*(C + D) + E*F*G) that can be implement on the original condition.SuggestedRemedyChange from "!tdet_timer_done*((do_detect_pri_done*((det_temp = only_one) + (pse_alternative both))) +(do_detect_sec_done * (pse_alternative = both)* (det_temp = both_neither))"To: "!tdet_timer_done*(do_detect_pri_done*((det_temp = only_one) + (pse_alternative both)) +do_detect_pri_done*((det_temp = only_one) + (pse_alternative both)) +do_detect_sec_done * (pse_alternative = both)* (det_temp = both_neither))"
Proposed Response Response Status W PROPOSED REJECT. This would eliminate the flexibility to stop after the first class event (in the probe) if the class signature was 1-3. Only if it comes back as class 4 do you need to do 3 class events.	Proposed Response Response Status W PROPOSED REJECT. OOS The suggested change is purely editorial. The resolution group agreed a the last meeting that parenthesis that add clarity (and I believe these do and have received feedback from others agreeing) will be left in the draft.

C/ 145 SC 145.2.5.7 P137 L45 # r01-424 Darshan, Yair	C/ 145 SC 145.2.5.7 P137 L 45 # r01-425 Darshan, Yair
Comment TypeTComment StatusDPSE SDThis comment is marked GIL_1. In the exit from CLASS_EV3 to MARK_EV3 we have the following condition: tcev_timer_done * (pse_alternative = both) * (pd_class_sig 4) * (pse_avail_pwr > 4) * ((pd_class_sig = 0) + (pse_avail_pwr > 5))PSE SD	Comment TypeTComment StatusDPSE SDThis comment will be OBE to the comment marked GIL_1 if GIL_1 will be accepted. In the exit from CLASS_EV3 to MARK_EV3 we have the following condition: tcev_timer_done * (pse_alternative = both) * (pd_class_sig 4) * (pse_avail_pwr > 4) * ((pd_class_sig = 0) + (pse_avail_pwr > 5))
The part (pse_avail_pwr > 4) * ((pd_class_sig = 0) + (pse_avail_pwr > 5)) is logically identical to: (pse_avail_pwr > 4)* (pd_class_sig = 0)+(pse_avail_pwr > 4)*(pse_avail_pwr > 5) Few issues: 1) The part: (pse_avail_pwr > 4)*(pse_avail_pwr > 5) has the same meaning as	The part (pse_avail_pwr > 4) * ((pd_class_sig = 0) + (pse_avail_pwr > 5)) is logically identical to: (pse_avail_pwr > 4)* (pd_class_sig = 0)+(pse_avail_pwr > 4)*(pse_avail_pwr > 5) which mean: (X>4)*(X>5) which is X>5.
<pre>(pse_avail_pwr > 5) resulting with keeping only (pse_avail_pwr > 5) Now we have left with ((pse_avail_pwr > 4)* (pd_class_sig = 0)+(pse_avail_pwr > 5)). 2) The part ((pse_avail_pwr > 4)* (pd_class_sig = 0)+(pse_avail_pwr > 5)) is equivalent to (pse_avail_pwr >= 5) because we already meets (pd_class_sig 4) and (pse_avail_pwr >= 5) resulting with the need to generate the 4th class event</pre>	SuggestedRemedy Change from: tcev_timer_done * (pse_alternative = both) * (pd_class_sig != 4) * (pse_avail_pwr > 4) * ((pd_class_sig = 0) + (pse_avail_pwr > 5)) to: tcev_timer_done * (pse_alternative = both) * (pd_class_sig != 4) * ((pse_avail_pwr > 4) * (pd_class_sig = 0) + (pse_avail_pwr > 5))
SuggestedRemedy change from: tcev_timer_done * (pse_alternative = both) * (pd_class_sig 4) * (pse_avail_pwr > 4) * ((pd_class_sig = 0) + (pse_avail_pwr > 5)) To: tcev_timer_done * (pse_alternative = both) * (pd_class_sig 4) * (pse_avail_pwr >= 5)	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. TFTD If we want to make the intent of the logic as clear as possible we should consider this
Proposed Response Response Status W PROPOSED REJECT.	change: Change from:
These are not equivalent. The current logic only allows the PSE to proceed to MARK_EV3 when $pse_avil_pwr = 5$ if $pd_class_sig = 0$. In other words, the if the PSE only has 45W	tcev_timer_done * (pse_alternative = both) * (pd_class_sig != 4) * (pse_avail_pwr > 4) * ((pd_class_sig = 0) + (pse_avail_pwr > 5)) to:

when pse_avil_pwr = 5 if pd_class_sig = 0. In other words, the if the PSE only has 45W available, it can only proceed to MARK_EV3 if the PD is asking for 45W (pd equivalent).

The sugested logic allows the PSE to move to MARK_EV3 whenever it has 45W available, no matter what the PD is requesting. This is a problem if the PD is requesting anything higher than class 5.

tcev_timer_done * (pse_alternative = both) * (pd_class_sig != 4) * (((pse_avail_pwr = 5) * (pd_class_sig = 0)) + (pse_avail_pwr > 5))

				-					
Cl 145 SC 145.2.5.7 Darshan, Yair	P138	L 45	# r01-426	<i>Cl</i> 145 Darshan, Ya	SC 145.2.5. iir	7 P	139	L 40	# <u>r01-428</u>
Comment Type T	Comment Status D		PSE SD	Comment T	/pe т	Comment Status	S D		PSE SD
condition part that mark ((pd_req_pwr > pse_av ((pd_req_pwr = 0) * (ps	ail_pwr) * (pse_avail_pwr < 3 e_avail_pwr < 3)) +	3)) +		accurate is better	e (but it is good to change it to	ER_ON to ERROR_E d enugh in this case, oo) since this signal sh successfully.	however fo	r consistency	with comment AVI_1, it
The part : (!ted_timer_	(!ted_timer_pri_done) + !ted_ done) + (!ted_timer_pri_done _timer_pri_done + !ted_time) + !ted_timer_s		SuggestedF Replace		_pwrd_sec with pwr_	app_sec.		
SuggestedRemedy				Proposed R	esponse	Response Status	w		
	_pwr > pse_avail_pwr) * (pse	e_avail_pwr < 3))	+ ((pd_req_pwr = 0) *	PROPC	SED ACCEPT	Г.			
(!ted_timer_done) + (!t To: ((pd_req_pwr > pse	ed_timer_pri_done) + !ted_tii e_avail_pwr) * (pse_avail_pw !ted_timer_done + !ted_time	r < 3)) + ((pd_rec		<i>Cl</i> 145 Darshan, Ya	SC 145.2.5. iir	7 P	140	L 5	# r01-429
Proposed Response PROPOSED ACCEPT	Response Status W			Comment T		Comment Status RON_PRI have unal	_	ngles.	Edtiorial
				SuggestedF	Remedy				
OOS				To align	ed both rectar	ngular.			
Cl 145 SC 145.2.5.7 Darshan, Yair	P139	L 33	# r01-427	Proposed R PROPC		Response Status T IN PRINCIPLE.	W		
Comment Type T This comment is marke	Comment Status D		PSE SD	OBE by	175				
In the exit from POWE	R_ON to SEMI_PWRON_SE signal is set prior to inrush wi			C/ 145 Darshan, Ya	SC 145.2.5. iir	7 P	140	L 5	# <u>r01-430</u>
So it is recommended	o replace the signal alt_pwr a alternative is delivering pow				of the condition	Comment Status on of the exit from SI		R_PRI to PO	Editorial WER_DENIDE is
SuggestedRemedy				truncate	d.				
Replace the signal alt_	pwrd_sec with pwr_app_sec			SuggestedF	Remedy				
Proposed Response	Response Status W			Fix it to	error_pri * !po	wer_available			
PROPOSED ACCEPT				Proposed R PROPC	,	Response Status T IN PRINCIPLE.	W		
				OBE by	175				

Cl 145 SC 145.2.5.7 Darshan, Yair	P140	L 16	# r01-431	C/ 145 So Darshan, Yair	C 145.2.5.7	P141	L 12	# r01-433
SuggestedRemedy To aligned both rectangu	Response Status W	Edtiorial	we will be a even if we o START_CX Other issue wrong locat TRUE" is su	ent is marke RY_PRI stat Ilways in EN didn't do_de (N_CHK_DE that ends v ion in DETE et after do_c	Comment Status X d AVI_22. e, the variable "det_start_pri RY_PRI when !sism=TRUE tect_pri. We need to move it TECT in page 135 line 47. <i>i</i> th the same remedy for "det CT_EVAL_SEC state. The p letect_sec was done.	which will set de to the to state t_start_sec <==	et_start_pri<==TURE TRUE" which is in	
Cl 145 SC 145.2.5.7 Darshan, Yair Comment Type T	P141 Comment Status X	L 8	# r01-432	47	et_start_pri	<== TRUE" to state START_ <== TRUE" to state START_		
state otherwise, we will h Analysis: When a single-signature "!sism" is TRUE which se diagram. Same happen in the seco To resolve it, we need to	we need to set the sig_pri and sig_sec to FALSE in the top level state machine at IDLE state otherwise, we will have cross issues between two state machines parts. Analysis: When a single-signature is connected, ENTRY_PRI is processed continuously because "!sism" is TRUE which sets sig_pri to 'invalid' continuously, which breaks the main state					Response Status W	L 6	# <u>r01-434</u>
idle state. This will also re that is not happening cur SuggestedRemedy Add the following assignr sig_pri <==FALSE sig_sec <== FALSE	Comment Type T Comment Status X Pres: Date of the CLASSIFICATION_PRI and DO_CLASS_PROBE_PRI states for achieving some objectives, and after simulating some parts and analyzing the change did, we found some errors in state machine and variable definitions that need to be corrected. Same applies for secondary parts.							
Proposed Response Response Status W TFTD WFP				SuggestedRem Adopt darsl Proposed Resp TFTD	han_03_117	.pdf Response Status W		
				WFP				

<i>Cl</i> 145 <i>SC</i> 145.2.5.7 <i>P</i> 144 <i>L</i> 10 <i>#</i> <u>r01-435</u> Darshan, Yair	C/ 145 SC 145.2.5.7 P145 L 15 # r01-437 Darshan, Yair
Comment Type T Comment Status D PSE SD The exits from CLASS_EVAL_PRI to POWER_DENIGED_PRI and POWER_UP_PRI doesn't contain the logics for power demotion. PSE SD	Comment Type E Comment Status D Editoria Missing parenthesis in CC_DET_SEQ=0 + CC_DET_SEQ=1 SuggestedRemedy
SuggestedRemedy 1. Change the exit from CLASS_EVAL_PRI to POWER_DENIED_PRI from: !ted_timer_pri_done + !ted_timer_done + (pd_req_pwr_pri > pse_avail_pwr_pri) + (!pd_4pair_cand * alt_pwrd_sec) To:	Change to (CC_DET_SEQ=0) + (CC_DET_SEQ=1) Proposed Response Response Status W PROPOSED ACCEPT.
!ted_timer_pri_done + !ted_timer_done + (pd_req_pwr_pri > pse_avail_pwr_pri) * (pse_avail_pwr_pri < 3) +	Cl 145 SC 145.2.5.7 P 145 L 22 # r01-438 Darshan, Yair
<pre>((pd_req_pwr_pri = 0) * (pse_avail_pwr_pri < 3)) + (!pd_4pair_cand * alt_pwrd_sec) 2. Change the exit from CLASS_EVAL_PRI to POWER_UP_PRI from: ted_timer_pri_done * ted_timer_done * (pd_req_pwr_pri ?? Pse_avail_pwr_pri) * (pd_4pair_cand + !alt_pwrd_sec) To: ted_timer_pri_done * ted_timer_done * ((pd_4pair_cand + !alt_pwrd_sec) + (pd_req_pwr_pri 0) * (pd_req_pwr_pri ?? Pse_avail_pwr_pri) + (pse_avail_pwr_pri > 2))</pre>	Comment Type T Comment Status D Editoria Missing parenthesis in CC_DET_SEQ=0 + CC_DET_SEQ=1 SuggestedRemedy Editoria Change to (CC_DET_SEQ=0) + (CC_DET_SEQ=1) Editoria Editoria
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	Proposed Response Response Status W PROPOSED ACCEPT.
OBE by 484 <i>Cl</i> 145 SC 145.2.5.7 <i>P</i> 145 <i>L</i> 7 # r01-436	Cl 145 SC 145.2.5.7 P 145 L 30 # [r01-439] Darshan, Yair
Darshan, Yair Comment Type T Comment Status D PSE SD This comment marked as AV15. In CC_DET_SEQ=3 and CC_DET_SEQ=2 the state machine can allow the secondary pair to power up (pri signature was valid) but primary fails in classification. (Details: If sig_pri=valid and primary fails classification, it goes to IDLE_PRI. There is nothing in IDLE_PRI that resets sig_pri to invalid. Now secondary has valid detection and classification and powerup. If our intention is to not allow powering the secondary if primary fails to power up, then we need to add sig_pri=invalid to IDLE_PRI state. Adding sig_pri<==invalid and sig_sec<==invalid in the IDLE_PRI and IDLE_SEC will resolve this issue. In addition, the lack of resetting sig_pri and sig_sec cause additional issues in simulations that are covered in other comments. See simulation results if needed in darshan_06_1117.pdf.	Comment Type T Comment Status D PSE SE This comment marked as AVI6. Similar setup as in AVI5, we get also the following issue: in CC_DET_SEQ=2 the secondary pair will do 2 loops of detection classification before going to wait state. This problem was not exist in D3.0 and no we have it due to the changes made by http://www.ieee802.org/3/bt/public/sep17/stewart_02_0917_final.pdf on page 5 when we remove (CC_DET_SEQ=3) and (CC_DET_SEQ NE 3) from the exits of IDLE_SEC. Now the assignment det_once_sec=TRUE is not exists if we came from ENTRY_SEC to DETECT_EVAL_SEC as a result we have now the above issue. See simulation results if needed in darshan_06_1117.pdf. SuggestedRemedy Add to DETECT_EVAL_SEC the condition det_one_sec=TRUE. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Add to DETECT_EVAL_SEC the condition det_once_sec=TRUE.
PROPOSED ACCEPT.	
TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/g COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/wi	

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

Editorial

Editorial

PSE SD

Cl 145 SC 145.2.5.7 Darshan, Yair	P 148	L 10	# <u>r01-440</u>	C/ 145 SC 145.2.8 Darshan, Yair	P163	L 28	# r01-442
Comment Type T Cc The exits from CLASS_EVAL doesn't contain the logics for		NIGED_SEC and	PSE SD POWER_UP_SEC	Comment Type T The note (a) belongs SuggestedRemedy	Comment Status D to Icon-2P_unb as it was in D3	.0	Editoria
SuggestedRemedy 1. Change the exit from CLA: !ted_timer_sec_done + !ted_ (!pd_4pair_cand * alt_pwrd_p To: !ted_timer_sec_done + !ted_ (pse_avail_pwr_sec < 3) +	timer_done + (pd_req_ ori) timer_done + (pd_req_	_pwr_sec > pse_a	avail_pwr_sec) + avail_pwr_sec) *	Change Note a from unbalance for Class	nb value is higher than the value Response Status W	0	
((pd_req_pwr_sec= 0) * (pse 2. Change the exit from CLA ted_timer_sec_done * ted_tir (pd_4pair_cand + !alt_pwrd_ To: ted_timer_sec_done * ted_tir (pd_req_pwr_sec 0) * (pd_ret) Proposed Response Res PROPOSED ACCEPT IN PR OBE by 485	SS_EVAL_SEC to PO ner_done * (pd_req_pw pri) ner_done * ((pd_4pain eq_pwr_sec ?? pse_ava sponse Status W	WER_UP_SEC wr_sec?? pse_av r_cand + !alt_pw	from: ail_pwr_sec) * rd_pri) +	powered pairset, as of The text says that loc 145-8. This current c numerical definition of equations in the spec is a spec and we can	Comment Status D om i-204 in D3.0. Ill be able to source ICon-2P, th defined in Equation (145-8).". on-2P is the current that the PSI annot be calculated per Equation or can be calculated per the data c. One may ask why we need to not leave spec parameter/equation	E must support on n 145-8 since lp a in the spec as o calculate it? Th	on each pair set per Eq port-2P_other has no we do for all our e answer is because it
C/ 145 SC 145.2.8 Darshan, Yair	P 162	L 15	# r01-441	why to spec it if it not SuggestedRemedy	needed?		
·	mment Status X sync to Icon-2P_unb a	nd Ipeak-2P_unt	Pres: Darshan5 o after latest changes	text to the existing de "Iport-2P_other can b pairs of the same pol	ort-2P_other in the where list of finition: we found by the measurement of arity when PSE is connected to as described in 145.2.8.5.1"	f the current diffe	erence between two
Adopt darshan_05_1117.pdf				Proposed Response	Response Status W		
• – – •	sponse Status W			TFTD			
TFTD				The suggested reme	dy text is misleading. Iport-2p_	other is the curre	ent in the other pairset

Cl 145 SC 145.2.8.5.1 Darshan, Yair	P166	L 29	# r01-444	C/ 145 Darshan, Y	SC 145.2.8. ′air	5.1	P167	L 36	# r01-445		
arsnan, Yair Comment Type T Comment Status Unbalance Table 145-17 has values that are the same as the values for Icon-2P_unb in Table 145-16. This intention of adding lunbalance and Table 145-17 was to clearly specify what is minimum value of the current that PSE has to source and what is to maximum value of the current during unbalance conditions that PSE and PD should not cross. For this purpose, it is sufficient to define that lunbalance-2P=Icon-2P_unb+2mA. This will set clear boundary between min/max values of these two parameters and also result with simpler spec. <i>uggestedRemedy</i> In Table 145-17 make the following changes: 1) In the 2nd row, in the value column change from "5" to "5 to 8". 2) In the 2nd row, in the Value column change from "0.56" to "lunbalance-2P=Icon-2P_unb+0.002". 3) Delete rows 4-6. <i>troposed Response Response Status</i> W TFTD Icon-2p_unb is the sourcing capability of the PSE. lunbalance is the limit for testing when using the unbalance test circuit. Thus, lunbalance needs to be less than Icon-2p_unb. In Table 145-17 make the following changes: 1) In the 2nd row, in the assigned class column change from "5" to "5 to 8". 2) In the 2nd row, in the assigned class column change from "5" to "5 to 8". <i>troposed Response Response</i> In Table 145-17 make the following changes: 1) In the 2nd row, in the assigned class column change from "5" to "5 to 8". 2) In the 2nd row, in the assigned class column change from "5" to "5 to 8".					Comment Type T Comment Status D Editori It is not clear in the following text to what the power sink is correctly need to be set "The load resistances Rload_min and Rload_max are split into two series resistances Rload1_min and Rload2_min, and Rload1_max and Rload2_max respectively, as shown in Figure 145-22, to correctly be able to set the power sink.". The power sink need to be adjusted to get Pclass-PD at the load. SuggestedRemedy Change from "The load resistances Rload_min and Rload1_max and Rload2_max respectively, as shown in Figure 145-22, to correctly be able to set the power sink." To: To: "The load resistances Rload_min and Rload1_max and Rload2_max respectively, as shown in Figure 145-22, to correctly be able to set the power sink." To: "The load resistances Rload_min and Rload1_max and Rload2_max respectively, as shown in Figure 145-22, to correctly be able to set the power sink." To: "The load resistances Rload_min and Rload2_max are split into two series resistances Rload1_min and Rload2_min, and Rload1_max and Rload2_max respectively, as shown in Figure 145-22, to correctly be able to set the power sink to generate Pclass_PD at the input of Pload." Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Change to: "The load resistances Rload_min and Rload_max are split into two series resistances Rload1_min and Rload2_max are split into two series resistances Rload1_min and Rload2_max are split into two series resistances Rload1_min and Rload2_max are split into two series resistances Rload1_min and Rload2_max are split into two series						
3) Delete rows 4-6.		11 0.30 10		as sho the inp Cl 145 Darshan, Y Comment The we resista contrib Suggested Chang the PD To: "R contrib Proposed I	wn in Figure 14 ut of Pload." <i>SC</i> 145.2.8. 'air <i>Type</i> E ording is not cle nce value repre- ution to unbalan <i>Remedy</i> e from "Rload2 unbalance" load2_max is, g ution to unbalan	5-22, such the Commen ar in the text ' senting the P ince and not u _max is, giver given Rload2_ nce" <i>Response</i>	at the power sin P167 t Status D 'Rload2_max is, D unbalance". F nbalance. n Rload2_min, th	k can be set to g <i>L</i> 49 given Rload2_m Rload2_max repre- ne higher resistar	enerate Pclass_PD at # <u>r01-446</u> <i>Editorial</i> in, the higher		

Darshan, Yair	5.1 P167	L 50	# r01-447	Cl 145 SC 1 Darshan, Yair	45.3.3.4	P178	L 39	# <u>r01-449</u>
Comment Type E	Comment Status D		Editorial	Comment Type	T Com	ment Status D		Nopowei
	ar in the text "Rload2_min is 2_min represents the PD co			"A variable tha	indicates the P	early defined in the fo D has been in NOPC since the last time V	WER, which inc	licates VPD was below /Reset for at least
	_min is the lowest resistance lowest resistance represen			FALSE: The P	D has not been i has been in NC			
Proposed Response	Response Status W			F i				
PROPOSED ACCEPT	IN PRINCIPLE.				to be Vreset_PI			
	_min is the lower resistance lower resistance representi					where it is used (Hov ring state actually)	v we can be belo	ow Voff_PD while being
	•	-		SuggestedRemedy				
C/ 145 SC 145.2.8. Darshan, Yair	12 P 173	L 15	# r01-448	1. Change to: "nopower				
Comment Type T Equation 145-22 accu darshan_04_1117.pdf SuggestedRemedy Adopt darshan_04_11 Proposed Response		See proposed cha	Pres: Darshan4 anges in	VOff_PD while least Treset. Values: FALSE: The P TRUE: The PD 2. The nopowe comment mark	being in powerii D has not been i has been in NC r_mode(X) varia	ng state, since the la n NOPOWER. DPOWER." ble is missing from t de(X). If this comme	st time VPD was	dicates VPD was below s below Vreset for at This is covered by the red, to make sure that
TFTD				Proposed Respons		onse Status W		
WFP				, ,	CCEPT IN PRIN			
				Change arc fro	m POWERED t	o NOPOWER from "	VPD < Voff_PD"	to "VPD < 30V"
				30V after reach Treset. When longer guarant Values: FALSE: The P	indicates the P ing POWERED this variable is 1	, since the last time RUE interoperability n NOPOWER.	VPD was below	

C/ 145 SC 145.3.3.4 Darshan, Yair	P 178	L 39	# r01-450	Cl 145 Darshan, Y	SC 145.3.3.7	P184	L 30	# r01-452
	Comment Status D		Nopower	Comment		Comment Status X		Pres: Yseboodt
SuggestedRemedy Add the following variable	ode(X) is missing from the	variable list.		NOPO 1) Viol 2) Pos	WER state and g ation of tpowerde sible overload co	or single signature (and dua bing back to INRUSH and b ay_timer when going from F ndition due to the assignmen behavior of PDs that doesn(ack to POWER_ POWER_DELAY nt of (pse_power	DELAY. to NOPOWER. _level <== 8).
	een in NOPOWER.			we nee If PD c (pse_p destroy Details When	ed to allow it as op lidnOt lost its data power_level <== 8 yed. s of issue 1: actual Tinrush_P	counted as additional class e otional behavior and not main when going to Vpd < Voff_) in NOPOWER spec so the O<25msec and transitioning	ndatory behavior _pd, it doesnOt n e correct assigne from POWER_[for PDs. For example: eed to set d class will not be
Proposed Response F PROPOSED ACCEPT IN OBE by 449	Response Status W PRINCIPLE.			nopow back to overloa	er variable=TRUE p POWERED thro ading the PSE wh	PD, sets nopower variable f will lead to bypassing tpow ugh INRUSH and POWER_ ich is still in INRUSH state. h INRUSH state twice in the	verdelay_timer (8 _DELAY states w (The 25msec nu	which will lead to PD mber is due to the fact
C/ 145 SC 145.2.5.7 Darshan, Yair	P178	L 44	# r01-451	This so POWE	cenario happens RED states, cau	whenever Vpd is lowered be sing a transition to NOPOW (PD was below Voff_pd).	low Voff_pd in P	OWER_DELAY or
In the nopower variable te should be "TRUE: The PI			<i>Nopower</i> een in NOPOWER." It	transiti POWE	on from INRUSH R_DELAY to PO a violation of Tde	sh_PD = 0 to 25ms, then the to POWER_DELAY to NOF WERED in 2xTirush_PD. elay, which is minimum 80m	POWER to INRU	SH to
SuggestedRemedy Change from "FALSE: The To: "TRUE: The PD has b		/ER."		Same Details	issue in dual-sign s of issue 2:	ature PD state machine.	an laval — Oll wi	
Proposed Response	Response Status W				vailable_power=8	, the assignment "pse_powe even if originally prior to get		
PROPOSED ACCEPT IN OBE by 449	PRINCIPLE.			past, it transiti PD rec inrush. Regare	was claimed that oning from NOPC quired by spec to Any way, we hav ding PDs that doe	t_th, PD remembers its data PD may think that we have WER to INRUSH again. Th ock itself to ignore additiona big hole here. sn't lock class event countir this case in the field as well	e additional class his argument see al counts after first hg, they are not c	event when ms not correct since st time going through ompliant. I understand
				pse_av not hav In addi use for mando Bottom behavi	vailable_power=8 ve to do it otherwi ition, we need to a r abnormal use ca ory requirements on line: We have tr or is not defined l	optional as function if we lo se they may go to overload add text that explains that th ses and not as the typical b	st the data or noi conditions while e NOPOWER st ehaviour otherwi compliant PDs or e to support those	i.e. compliant PDs wil they behaves correctly ate was meant to be se we by pass the PDs that their e PDs but on the way
VDE: TP/tochnical required					1	·	ont ID r01 453	Page 112 of 2

Comment ID r01-452

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noncompliant way by violating other spec requirements. Below is proposal to support those PDs without creating problems to PDs that behaves	
correctly.	C/ 145 SC 145.3.3.9 P 186 L 11 # r01-454 Darshan, Yair
SuggestedRemedy	Comment Type T Comment Status D PD SD
 In the exit from POWER_DELAY to NOPOWER and in the exit from POWERED to NOPOWER, change the condition from VPD < VOff_PD to (VPD < VOff_PD)*go2nopower. 2. Add the new variable go2nopower: go2nopower Implementation specific variable that indicates if PD will go to NOPOWER in case VPD < VOff_PD during POWER_DELAY or POWERED. Values FALSE PD will not use NOPOWER in case VPD < VOff_PD during POWER_DELAY or POWERED TRUE PD will use NOPOWER in case VPD < VOff_PD during POWER_DELAY or POWERED 3. Repeat only steps 1 for dual-signature PD in page 190 for the above states. 4. [This solution allow not using pse_power_level <==8 in case PD didn't lost its data or change its data during the transition to POWER_DELAY through NOPOWER] Append the following text to the definition of nopower variable: "If pse_power_level data was not lost or changed in the event of transitioning to POWER_DELAY through NOPOWER. Proposed Response Response Status W TFTD WFP 	Control (1) Control (2) The variable pd_current_limit_mode(X) should not be used. See other comments where it was deleted from the state machine. SuggestedRemedy Remove the variable pd_current_limit_mode(X) from the variable list in 145.3.3.9 Proposed Response Response Status PROPOSED ACCEPT IN PRINCIPLE. OBE by 230 Cl 145 SC 145.3.3.12 P 190 L 8 # [r01-455] Darshan, Yair Comment Status D PD SD In the exit from INRUSH to POWER_DELAY: Typo in timer name. Need to be tinrushpd_timer_done_mode(X) and not tinrush_timer_done_mode(X) SuggestedRemedy Change from "tinrush_timer_done_mode(X)" to "tinrushpd_timer_done_mode(X)" Proposed Response Response Status PROPOSED ACCEPT. OOS OOS D D
C/ 145 SC 145.3.3.7 P184 L 38 # r01-453	

C/ 145 SC 145.3.3.12 P190 L13 C/ 145 P196 L46 # r01-457 SC 145.3.6.2 # r01-460 Darshan, Yair Darshan, Yair Comment Type т Comment Status D PD SD Comment Type T Comment Status D PD Class In the state POWER DELAY, pd current limit mode(X) is not required. In the text "After power up, a PD that implements Autoclass shall draw its highest required power. PAutoclass PD. subject SuggestedRemedy to the requirements on PClass PD in 145.3.8.2, throughout the period bounded by " we Remove "pd_current_limit_mode(X) < FALSE" from POWER_DELAY state. have the following issue: According to the existing Autoclass text In 145.3.8.2 the text says that the limits of the Proposed Response Response Status W autoclass power value is the assigned class. This may generate an overload condition PROPOSED ACCEPT IN PRINCIPLE. according to the following example: 1) When we negotiate power through LLDP and we asked for 34W and received 34W. The OOS assigned class will be 5 per table 145-12. 2) Now the PD requests Autoclass through LLDP and consumes 39W (it can consume OBE by 230 more, up to the maximum of the assigned class=40W). 3) PSE will enter to overload condition/overpower and may shut the port off. C/ 145 SC 145.3.3.12 P190 L 20 # r01-458 Possible solutions: a) The fix for this is to limit autoclass power not according to the assigned class but to limit Darshan, Yair it to the PSE allocated power which is in the above example 34W and not 40W. PD SD Comment Type Comment Status D Т b) (Preferred, simpler) To keep it per the assigned class when layer 1 autoclass is used and limit the value of the autoclass power to the pse allocated power when autoclass is In the state POWERED, pd current limit mode(X) is not required. used through LLDP. SuggestedRemedy SuggestedRemedy Remove "pd_current_limit_mode(X) < FALSE" from INRUSH state. Change from: Proposed Response Response Status W "After power up, a PD that implements Autoclass shall draw its highest required power, PROPOSED ACCEPT IN PRINCIPLE. PAutoclass_PD, subject to the requirements on PClass_PD in 145.3.8.2, throughout the period bounded by TAUTO PD1 and TAU-TO PD2, measured from when VPD rises above VPort PD-2P min. The PD shall not draw more power than PAutoclass PD at any OOS point until VPD falls below VReset PD max, unless the PD successfully negotiates a higher power level, up to the PD requested Class, through Data Link Layer classification as OBE by 230 defined in 145.5." C/ 145 SC 145.3.3.12 P190 L 29 # r01-459 To: "After power up, a PD that implements Autoclass shall draw its highest required power, Darshan, Yair PAutoclass PD. subject to the requirements on PClass PD in 145.3.8.2. throughout the PD SD period bounded by TAUTO PD1 and TAU-TO PD2, measured from when VPD rises Comment Type **T** Comment Status D above VPort PD-2P min. In the state POWER UPDATE, pd power update mode(X) is not required. When using Autoclass through LLDP, a PD that implements Autoclass shall draw its SuggestedRemedy highest required power. PAutoclass PD. up to PSEAllocatedPowerValue, throughout the period bounded by TAUTO PD1 and TAU-TO PD2, measured from the time Remove "pd power update mode(X) < FALSE" from POWER UPDATE state. MirroredPDAutoclassRequest is TRUE. Proposed Response Response Status W The PD shall not draw more power than PAutoclass PD at any point until VPD falls below VReset PD max, unless the PD successfully negotiates a higher power level, up to the PD PROPOSED ACCEPT IN PRINCIPLE. requested Class, through Data Link Laver classification as defined in 145.5." OOS Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. OBE by 355 OOS

Comment ID r01-460

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10/31/2017 10:34:39 AM

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

SORT ORDER: Comment ID

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

IEEE P802.3bt D3.1 4-Pair PoE 1st Sponsor recirculation ballot comments

OBE by 239				C/ 145 SC 145.4.1.1.1 P210 L7 # r01-463 Darshan, Yair
C/ 145 SC 145.3.8 . Darshan, Yair	9 P 205	L 24	# r01-461	Comment Type T Comment Status X AES
Comment Type E Missing link to Annex SuggestedRemedy	Annex 145 for details" after li Response Status W	ne 24	PD Power	To ensure proper operation of connection check and detection, we need to require that PSE measures the current on the same side it switches the current (We have already a requirement that PSE will switch the current on the negative side. Switching the positive side is possible as an option but not instead of the negative side). The PD must show valid detection on each pairset set per the dual-signature definitions when connected to the PSE above. As a result, we don't need to require dual-sigs to not tie negatives together however if we do, it surely make the standard clearer. In addition 79.3.2.6d.3 needs updated and will be addressed in separate comment marked as PDISO-1.
Append the text "See	Annex 145A for details." after	line 24		SuggestedRemedy
	P 207 Comment Status X s we did to include Equipmen s, Figure 145-31 and NOTE 1 117.pdf Response Status W			 1) On page 210 line 7, change from: "An Environment A PSE shall switch the more negative conductor. It is allowed to switch both conductors." To: "An Environment A PSE shall switch the more negative conductor and shall measure the current through it. It is allowed to switch both conductors." 2) On page 210 line 18, change from: "An environment B PSE that supports 4-pair power shall switch the more negative conductor. It is allowed to switch both conductors." To: "An environment B PSE that supports 4-pair power shall switch the more negative conductor and shall measure the current through it. It is allowed to switch both conductors." To: "An environment B PSE that supports 4-pair power shall switch the more negative conductor and shall measure the current through it. It is allowed to switch both conductors." 3) On page 209 clause 145.4.1 after line 38, add the following text: ODual-signature PDs shall not tie the negative pairs during detection and classification states.O
WFP				Proposed Response Catatus W TFTD
				OOS
				I don't know how you require a PSE to measure current somewhere. I can see saying that all specs shall be met on the negative conductors, but how will you ever know where the PSE is measuring?

Cl 145 SC Darshan, Yair	0 145.4.4	P 213	L 12	# r01-464	C/ 145 Darshan, `	SC 145.4.4 Yair		P 214	L 33	# r01-466
Comment Type	T Co	omment Status D		AES	Comment	Туре Т	Comment S	Status D		AE
		eed to update the maxir than 1 ohm from 1 MH		ange in the text	After a "**Cap	adding 2.5/5/100 bacitor impedan	G we need to up ce less than 1 o	date the maxin hm from 1 MH	mum frequency r lz to 100 MHz"	ange in the text
SuggestedRem	edy				Suggestee	dRemedy				
Change from To: "**Capa the device."	n" **Capacitor in citor impedance	pedance less than 1 of less than 1ohmrom 1 M	nm from 1 MHz t 1Hz to maximum	o 100 MHz" operating frequency of		Capacitor impe			nm from 1 MHz to 1Hz to maximum	o 100 MHz" operating frequency of
Proposed Resp	onse Re	sponse Status W			Proposed	Response	Response S	Status W		
PROPOSEI	D ACCEPT IN PF	RINCIPLE.			PROF	OSED ACCEP	г.			
OOS					OOS					
	citor impedance	pedance less than 1 of less than 1ohm from 1			C/ 145 Darshan, `	SC 145.4.6 Yair		P 215	L 39	# <u>r</u> 01-467
	-				Comment	Туре Т	Comment S	Status X		AE
	C 145.4.4	P 213	L 21	# r01-465	The c	oupled noise of	1mV for 2.5GHz	z to 10GHz is t	oo small.	
Darshan, Yair					Suggestee	dRemedy				
Comment Type		omment Status D		AES	Chang	ge to 2mV				
35. The PS 10 mA and	E load, R, in Figu then 350 mA, wh	PI that supplies power is re 145-35 is adjusted s ile measuring Ecm_out adjust it to Icon or Icor	o that the PSE o on the PI." was		Proposed TFTD	Response	Response S	Status W		
SuggestedRem					Is the	e any reasoning	g or justification	behind this? (r	not my area of ex	(pertise)
Change from Figure 145-	m: "1) For a PSE 35. The PSE load	, the PI that supplies po d, R, in Figure 145-35 is nen 350 mA, while mea	adjusted so that	t the PSE output	C/ 145 Darshan, `	SC 145.5.5. Yair	5.52	P 226	L 28	# <u>r</u> 01-468
To: "1) For	a PSE, the PI that	at supplies power is terr	minated as illust	rated in Figure 145-35.	Comment	Туре Т	Comment S	Status D		DL
mA and the		45-35 is adjusted so the signature PD or Icon-2F the PI."		ut current, lout, is 10 t for dual-signature PD,	value"	to the text "This	s function evalua	ates the power		PD requested power dget of the PSE based is defined.
Proposed Resp	onse Re	sponse Status W			Suggestee	dRemedv				
PROPOSEI	D ACCEPT IN PF	RINCIPLE.			•••	-	unction evaluate	es the power a	llocation or budg	et of the PSE based or
OOS					local s To: " ⁻	system changes	.""	er allocation or	· budget of the P	SE based on local
TFTD					•	Response	Response S			
Should wo r	also not use lholo	l? What was 10mA me	ant to represent	? MPS can be pulses,		OSED ACCEP	•			

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

Cl 145 Darshan, Y	SC 145.5.3. 3 ′air	.2	P 226	L 28	# r01-469	C/ 145A Darshan, Y		145A.4	P	277	L 50	# r01-472
Comment T	Туре т	Comment	Status D		DLL	Comment 7	Type	Е	Comment Statu	s D		Editoria
pse_po value Suggested Change	wer_review is <i>Remedy</i> e from:		-	-	D requested power	Missing met wit Equatio Rload_	g link to h Rload on (145- min and	d_max an -14), Equ d Rload_r	d Rload_min appli	ed as defi I Table 14 e link sec	ined in 15-18. A complia tion and PD effe	
"This f change		es the power a	allocation or bud	lget of the PSE b	based on local system	Suggestedl	Remed	V				
The fur To: "Th system Proposed F	nction returns th nis function eval n changes PD re Response	uates the pow equested powe <i>Response</i> 3	er allocation or r value." S <i>tatus</i> W	budget of the PS	E based on local	Rload_ A comp PD effe	min app bliant un ective re	plied as d nbalanced esistance	efined in Equation	(145-14), and Rload acts (or in	, Equation (145-1 d_max, consists fluence) of syste	
PROPO	OSED ACCEPT	IN PRINCIPL	E.			Proposed F	Respon	se	Response Statu	s W		
OBE b	y 468					PROPO	DSED A	ACCEPT.				
C/ 145A Darshan, Y	SC 145A.2		P 275	L 25	# r01-470	OOS						
Comment T	Туре Е	<i>Comment</i> hange from "L		/iew" to "Pair-to-r	<i>Editorial</i>	C/ 145A Darshan, Y	air	145A.5		278	L 3	# r01-473
overvie						Comment 7		т	Comment Statu			Editoria
Suggested Change	,	ice overview" 1	to "Pair-to-pair (unbalance overvi	ew"	limited	to 10m	V max fo	ne annex. Append the current spec i		PSE pair to pair v	voltage difference was
Proposed F		Response					e follow	ing text a	fter line 3: e difference is spe	cified by ^v	Vport_PSE-2P in	table 145-16."
C/ 145A Darshan, Y	SC 145A.4		P 277	L 44	# r01-471	Proposed F PROPC	'	se ACCEPT.	Response Statu	s W		
Comment T	Туре Е	<i>Comment</i> for D3.1, The		igure 145A-1 and	<i>Editorial</i> 1 not Figure 145-22.	OOS						
Suggested Change	<i>Remedy</i> e from " Figure	145-22" to "Fig	gure 145A-1".									
Proposed F	Response OSED ACCEPT	Response .	Status W									

C/ 145A SC 145A.5 Darshan, Yair	P 278	L 46	# r01-474	C/ 145B SC Darshan, Yair	C 145B.1.3	P 283	L 32	# r01-476
Comment Type T	Comment Status D		Annex	Comment Type	т	Comment Status X		Annex
	the annex. Append text that F for the current spec numbers.	PD pair to pair v	oltage difference was	connection of	check resul	illustrates a PSE implement is dual and pd_4pair_cand is	s initially TRUE	" is incorrect.
SuggestedRemedy						lly TRUE" should be "class_4 ts_sec is TRUE"	PID_mult_ever	its_pri or
Add the following text "PD pair-to-pair voltag 2P_unb under worst c	ge difference e.g. Vf1-Vf3 was	limited to 60mV	to get the spec for Icon-	SuggestedReme	edy	45B-8 illustrates a PSE imple	ementing CC_D	ET_SEQ=2 when the
Proposed Response	Response Status W					is dual and pd_4pair_cand is		
PROPOSED ACCEPT						trates a PSE implementing C class_4PID_mult_events_s		2 when the connection
OOS				Proposed Respo	onse	Response Status W		
000				TFTD				
	after line 46: je difference (e.g. Vf1-Vf3) wa ib under worst case conditions		V while generating	OOS		0		
C/ 145B SC 145B.1	P 281	L21	# r01-475	Does this m	atch the SL	??		
Darshan, Yair				C/ 145B SC	C 145B.1.3	P 283	L 45	# r01-477
Comment Type T	Comment Status X		Pres: Darshan2	Darshan, Yair				
	wings to Annex 145B.1 demor	nstrating the defi	inition of	Comment Type	т	Comment Status X		Annex
parallel/staggered det	ection	-				implementing CC_DET_SE		
SuggestedRemedy				simultaneou for dual-sign		". remove the text "simultane	ous power on" \	which may be incorrect
Adopt darshan_02_11	17.pdf			SuggestedReme				
Proposed Response	Response Status W			00	,	aneous power on" which may	be incorrect for	r dual-signature PD
TFTD				case				
OOS				Proposed Respo	onse	Response Status W		
				TFTD				
WFP				OOS				
				This diagram	n is showin	g simultaneous power on, rigl	ht?	

	· · · · · · · · · · · · · · · · · · ·	
C/ 145B SC 145B.1.3 P 284 L 2 # r01-478 Darshan, Yair	C/ 145B SC 145B.1.4 P 285 L 51 Darshan, Yair	# <u>r01-480</u>
Comment Type T Comment Status X Annex	Comment Type T Comment Status D	Annex
The text "Figure 145B-9 illustrates a PSE implementing CC_DET_SEQ=2 when the	Figure 145B-14 to change TIce2 and TIce3 to TCEV	
connection check result is dual and pd_4pair_cand is initially FALSE." is incorrect. "pd_4pair_cand is initially TRUE" should be "class_4PID_mult_events_pri or	SuggestedRemedy	
class_4PID_mult_events_sec is TRUE"	Figure 145B-14 to change TIce2 and TIce3 to TCEV	
SuggestedRemedy	Proposed Response Response Status W	
Change from: "Figure 145B-9 illustrates a PSE implementing CC_DET_SEQ=2 when the connection check result is dual and pd_4pair_cand is initially FALSE." To: "Figure 145B-9 illustrates a PSE implementing CC_DET_SEQ=2 when the connection	PROPOSED ACCEPT IN PRINCIPLE. change TIce2 and TIce3 to TCEV in all figures in Annex 145B.	
check result is dual and class_4PID_mult_events_sec is TRUE."		# <u></u>
Proposed Response Response Status W	C/ 145C SC 145C.1 P287 L28 Darshan, Yair	# r01-481
TFTD		
OOS	Comment Type E Comment Status D Figure 145C-1. It is 25.5 W and not 25 W.	Anne>
does this match the SD?	SuggestedRemedy	
C/ 145B SC 145B.1.4 P284 L 34 # r01-479	Change the load to 25.5 W.	
Darshan, Yair	Proposed Response Response Status W	
Comment Type T Comment Status X Annex	PROPOSED ACCEPT IN PRINCIPLE.	
The text "Figure 145B-11 illustrates a PSE implementing CC_DET_SEQ=3 when the connection check result is dual." is incomplete.	OBE by 39	
SuggestedRemedy	C/ 145C SC 145C.1 P288 L 8	# r01-482
Change from: ""Figure 145B-11 illustrates a PSE implementing CC_DET_SEQ=3 when the	Darshan, Yair	
connection check result is dual." " To: "Figure 145B-11 illustrates a PSE implementing CC_DET_SEQ=3 when the connection check result is dual and class_4PID_mult_events_sec is FALSE."	Comment Type E Comment Status D Figure 145C-2. It is 25.5 W and not 25 W.	Annex
Proposed Response Response Status W	SuggestedRemedy	
TFTD	Change the load to 25.5 W.	
OOS	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	
I thought that SEQ=3 was for staggered turn on of DS PDs. Why do we have to note that the other variable is false? Is SEQ=3 also used for simultaneous power on?	OBE by 40	
	OBE by 40	

Cl 145C SC 145C.3 P289 Darshan, Yair	L 46	# r01-483	C/ 145 Darshan, Y	SC 145.2.5. air	7 P14	48 L 10	# r01-485
Comment Type E Comment Status D		Annex	Comment 7	Туре Т	Comment Status	D	PSE SD
Typo. Remove "/m" from the value "0.3 ohm"			This is	similar ot earlie	r comment but with up	dated remedy.	IND POWER_UP_SEC
SuggestedRemedy					ics for power demotio		
Remove "/m" from the value "0.3 ohm"			Suggestedl	Remedy			
Proposed Response Response Status W PROPOSED ACCEPT.			!ted_tin			to POWER_DENIGE od_req_pwr_sec > pse	
Cl 145 SC 145.2.5.7 P 144 Darshan, Yair P	L 10	# r01-484	To: !ted_tin	ner_sec_done ·	+ !ted_timer_done + e_avail_pwr_sec) * (p;	se_avail_pwr_sec < 3)	+
Comment Type T Comment Status D		PSE SD				< 3)) + !pd_4pair_can	
This is similar ot earlier comment but with updated r The exits from CLASS_EVAL_PRI to POWER_DEN doesn't contain the logics for power demotion. SuggestedRemedy 1. Change the exit from CLASS_EVAL_PRI to POW !ted_timer_pri_done + !ted_timer_done + (pd_req_p (!pd_4pair_cand * alt_pwrd_sec)	IIGED_PRI and I	RI from:	ted_tim pd_4pa To: ted_tim	ner_sec_done * air_cand) ner_sec_done *	ted_timer_done * (pd_ ted_timer_done * pd_		
To: !ted_timer_pri_done + !ted_timer_done + (pd_req_p (pse_avail_pwr_pri < 3) +			Proposed F PROPC	Response DSED ACCEPT	Response Status	w	
 ((pd_req_pwr_pri = 0) * (pse_avail_pwr_pri < 3)) + (! 2. Change the exit from CLASS_EVAL_PRI to POV ted_timer_pri_done * ted_timer_done * (pd_req_pwr 	VER_UP_PRI fro	om:	C/ 30 Thompson,	SC 30.9.1.1. Geoffrey	5 P36 Individ		# r01-486
(pd_4pair_cand + !alt_pwrd_sec) To:			Comment 7	Туре Т	Comment Status	D	Management
ted_timer_pri_done * ted_timer_done * ((pd_4pair_ (pd_req_pwr_pri 0) * (pd_req_pwr_pri <= pse_avail Proposed Response Response Status W			permiss two of t	sible to change the enumerated	the behavior of a mar		improper and not s it is improper to delete stand the desired to not
PROPOSED ACCEPT IN PRINCIPLE.				test mode.			
			Suggestedl	,			
ALSO, make sure "less than or equal to" sign in inst	ruction 2 is imple	emented correctly.		e the two delete ted for clause 1		and add text to those t	two that says 'Not
			Proposed F	Response	Response Status	w	
			PROPO	OSED ACCEPT	IN PRINCIPLE.		

Cl 30	SC 30.9.1.1.6 , Geoffrey	P 37 Individual	L 51	# r01-487	<i>Cl</i> 30 Thompson	SC 30.12.2.1.18	B P 43 Individual	L 4	# r01-490		
						-					
permis	COMMENT: As I u	Comment Status D understand the rules for mare behavior of a management as shown.			BCD?	COMMENT: RE: 'in	Comment Status X units of 0.1 W.' Would	that be expressed ir	<i>Management</i> n straight binary or		
Suggested	0				Suggested Clarify						
Proposed	Response	Response Status W			Proposed TFTD	Response	Response Status W				
OBE					OOS						
C/ 30	SC 30.9.1.1.7 a		L 24	# r01-488	<i>Cl</i> 30 Thompson	SC 30.12.2.1.18 , Geoffrey	P Individual	L	# r01-491		
Thompson	, Geoffrey	Individual			Comment	Туре Е	Comment Status D		Editorial		
Comment Type E Comment Status D Editorial LATE COMMENT: Balloting draft seems to be OK. Compare doc does not seem to match balloting draft. SuggestedRemedy						LATE COMMENT: I'm completely lost here. I'm looking at the compare doc and it looks like what is being done is comepletely improper. (You can't change an existing attribute from a bit string to enumerated.) When I look at the same clause # in the balloting doc it is nowhere near the same.					
00	2	is correct next time.			SuggestedRemedy Make sure compare doc is correct next time. If it isn't correct it does more harm than good.						
	•										
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.					Proposed Response Response Status W						
					PROP	OSED ACCEPT IN	PRINCIPLE.				
OOS Comp	are docs are produ	uced by Frame. Editor to m	ake sure all setti	ngs are used correctly.		ompare documents ed correctly for rem	are generated by Frame aining revisions.	e. The editor will ma	ke sure all settings		
C/ 30	SC 30.12.2.1.9		L 46	# r01-489	C/ 30	SC 30.12.2.1.18		L	# r01-492		
Thompson	, Geoffrey	Individual			Thompson	, Geoffrey	Individual				
Comment	51	Comment Status D		Editorial	Comment		Comment Status D		Mangament		
LATE	COMMENT: Word	ling does not conform to sta	indards norms.				nderstand the rules for m behavior of a managem				
Suggested	2					nge the behavior as					
Change 'can' to 'may'.					Suggestea	Remedy					
Proposed Response Response Status W PROPOSED ACCEPT. OOS						Undo change. Proposed Response Response Status W PROPOSED REJECT.					
	/technical required	ER/editorial required GR/ atched A/accepted R/reject		T/technical E/editorial G/g				ment ID r01-492	Page 122 of 123		

C/ 145 SC 145.1 Thompson, Geoffrey	P 103 Individual	L 16	# r01-493	C/ 145 SC 145.2.3 Thompson, Geoffrey	P 108 Individual	L 14	# r01-495
Comment Type E	Comment Status D		Editorial	Comment Type E LATE COMMENT: Lin	Comment Status D e breaks within a term.		Editori
SuggestedRemedy Change text: 'The inter (PI).' to: 'The interface (PI).' Proposed Response PROPOSED REJECT The suggested remec elements'' makes it so	erface between each of the ele e between each of the power e <i>Response Status</i> W T. dy only adds ambiguity. "The in bound like an interface between use the word "power" in their c	lements is called nterface betwee the PSE and th	d the Power Interface n each of the power e PD since those are	SuggestedRemedy	n or an early required return. Response Status W		
C/ 145 SC 145.1 Thompson, Geoffrey	P103 Individual	L 17	# r01-494				
Comment Type E LATE COMMENT: Im	Comment Status D prove clarity of text.		Editorial				
SuggestedRemedy Swap order of PD ser Proposed Response PROPOSED ACCEP	ntence and link section sentend Response Status W T IN PRINCIPLE.	ce.					
each of the elements powered DTE. The lin data transmission. Th	f the system is defined as the I is called the Power Interface (ik section shares use of the ca ie PSE is normally an element cabling portion of the system.	PI). The PD is a bling with the lin	n element of the k segment used for				
	f the system is defined as the L h the link segment used for da						

use of the cabling with the link segment used for data transmission. The PSE is normally an element of the powering DTE but may, instead, be located within the cabling portion of the system. The PD is an element of the powered DTE.