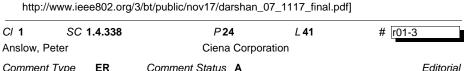
C/ 00 SC 0 P 0	L 0	# <u>r01-1</u>	<i>Cl</i> 145 Brillhart, T	SC 145.3.8.4 heodore	P 203 Fluke Corpora	L 25 ation	# r01-2
Comment Type E Comment Status A		Editorial	Comment	Туре Т	Comment Status A		PD Powe
This draft meets all editorial requirements.					45-30 points out that a dual		
SuggestedRemedy			implie Vpse+	s that a dual signa ⊦ (mode A) and VF	ther that common load is isc ature PD might tie Vpse- (Mo Pse+ (mode B) independent.	ode A) to Vpse- (. This would me	(Mode B), and leaving et all the requirements
Response Response Status C ACCEPT IN PRINCIPLE.			Vpse+ would	 (Mode A) to Vps also meet all the 	resistors and classification e+ (Mode B) together, leavin signature and classification	ng the negative s requirements. H	ides independent. This lowever, the first
No changes to the draft result from accepting this	s comment.		PSE c side o	output, and the sec of the PSE output.	nt the PSE from correctly me cond would prevent the PSE Since the specification seen tion check from the PSE.	from measuring	g currents on the high
			constr not ap	rained to prevent 's	newhere in the specification, sharing' of current between t e current draft. Recommend e in the definition of a dual-s	the two pairsets. to explicitly add	This constraint does this constraint. One
			Suggested	dRemedy			
			Page	24, SubClause 1.4	4, line 19		
				36a dual-signature	PD: A PD that has independ n power signatures on each		
			signat curren	6a dual-signature tures, and maintain ts related to deteo	PD: A PD that has independ n power signatures on each ction signatures, class signa rset. (See IEEE 802.3, Cla	pairset, and whe tures, and maint	ere outgoing and return
			standa		several likely options for int er is not wed to this proposa lance.		
			Response ACCE	PT IN PRINCIPLI	Response Status C E.		
				changes shown ir www.ieee802.org/	n 3/bt/public/nov17/darshan_0)7_0117_final.pd	lf
			This re	esolution is idention	cal to comment #404.		
			[Edito	r's note added afte	er comment resolution comp	leted:	
			There	is a typo in the file	e name. The file used is		

C/ 30

SC 30.2.5



Comment Status A Comment Type ER

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.

SuggestedRemedy

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 Clause 145</u>), DTE powering is intended to provide a single 10BASE-T, 100BASE-TX, <s> or </s>1000BASE-T<u>, 2.5GBASE-T, 5GBASE-T, or 10GBASE-T</u> device with a unified interface for both the data it requires and the power to process these data. When used with single balanced twisted-pair (BASE-T1) PHYs (see IEEE Std 802.3, Clause 104), DTE powering is intended to provide a single 100BASE-T1 or 1000BASE-T1 device with a unified interface for both the data it requires and the power to process these data. A PSE used with balanced single twisted-pair PHYs is also referred to as a PoDL PSE. <u>A DTE Power over Ethernet (Clause 33 and Clause 145) device that provides the power to a single link section. Power over Ethernet is intended to provide a single 10BASE-T, 100BASE-TX, 1000BASE-T, 2.5GBASE-T, 5GBASE-T, or 10GBASE-T device with a unified interface for both the data it requires and the power to process these data.</u> Where <u> and </u> denote the start and end of underline font and <s> and </s> denote the start and end of strikethrough font.

Response

Response Status W

ACCEPT IN PRINCIPLE.

Change definition to:

"1.4.338 Power Sourcing Equipment (PSE): A DTE or midspan device that provides the power to a single link section. PSEs are defined for use with two different types of balanced twisted-pair PHYs. When used with 2 or 4 pair balanced twisted-pair (BASE-T) PHYs. see IEEE Std 802.3, Clause 33 and Clause 145, Power over Ethernet is intended to provide a single 10BASE-T, 100BASE-TX, 1000BASE-T, 2.5GBASE-T. 5GBASE-T. or 10GBASE-T device with a unified interface for both the data it requires and the power to process these data. When used with single balanced twisted-pair (BASE-T1) PHYs (see IEEE Std 802.3, Clause 104). Power over Data Lines is intended to provide a single 100BASE-T1 or 1000BASE-T1 device with a unified interface for both the data it requires and the power to process these data. A PSE used with balanced single twisted-pair PHYs is also referred to as a PoDL PSE."

with editorial practices outlined in the suggested remedy.

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

	ter		Ci	ena	Corpora	tion	
Comment	Гуре	ER	Comment Sta	tus	Α		Editor
"Delete Packag Table 3 makes	e the "ol ge (mar 30-4." change	ndatory)" o		le 30 , no)-4. Dele	ete the row for "a	s the "PD Basic aPSEShortCounter" in have been added to
Suggested	Remed	y					
Bring T	able 30)-4 into th	e draft and show	all c	of the cha	anges to it.	
Response			Response Stat	us	С		
ACCE	ΡT.						
C/ 30	SC :	30.2.5		P 32	2	L 7	# r01-5
Anslow, Pe	ter		Ci	ena	Corpora	tion	
Comment	Гуре	ER	Comment Sta	tus	Α		Editor
"aLldp) "aLldp)	Kdot3Ro Kdot3Lo	emPower		have	e been c	hanges (to have	e a double I) and orresponding changes
Currented	Remed	y					
Suggestea							
Show t "aLldp)	Kdot3R	emPower	aLldpXdot3LocPo PairControlable" dOperationPowe	and	the dele	tion of	

P31

L 47

r01-4

C/ 30 SC 30.9.1.1 Anslow, Peter	P 35 Ciena Corpo	L 9 ration	# r01-6	<i>Cl</i> 30 Anslow, P	SC 30.9.1.1.9 Veter)a P 39 Ciena Corp	L 46 poration	# r01-7
Comment Type E Cor The editing instructions for sul Also, adding 30.9.1.1.9a and 3 30.9.1.1.10, which was former is also confusing.	30.9.1.1.9b, then dele	eting 30.9.1.1.10	and then changing	Suggeste	ew subclause for	Comment Status A "aPSEOverLoadCounterB 1.9b	" should be 30.9.1	Editorial .1.9b
SuggestedRemedy Replace the current editing ins "Change 30.9.1.1.2 through 30 Insert new subclause 30.9.1.1 Insert new subclause 30.9.1.1 Insert new subclause 30.9.1.1 numbers, should be 9a and 9b Delete 30.9.1.1.10. Change 30.9.1.1.10 (renumber follows:	0.9.1.1.9 as follows: .5a and 30.9.1.1.5b a .7a and 30.9.1.1.7b a .8a and 30.9.1.1.8b a .8a and 30.9.1.1.8b a .8a and 30.9.1.1.8b a	as follows as follows: as follows: [note		Chan "This enters ERRO - Fix s	EPT IN PRINCIPL ge to: counter is increme s the state ERROF DR_DELAY_PRI if subclause number	ented when the PSE state R_DELAY_SEC if alt_pri=' f alt_pri='b'.;"		
Insert new subclause 30.9.1.1 with: "Change 30.9.1.1.2 through 30 Insert new subclause 30.9.1.1 Change 30.9.1.1.6 and 30.9.1 Insert new subclause 30.9.1.1 Change 30.9.1.1.8 as follows: Insert new subclause 30.9.1.1 Change 30.9.1.1.9 as follows: Insert new subclause 30.9.1.1 Delete 30.9.1.1.10 and insert Change 30.9.1.1.11 as follows Insert new subclause 30.9.1.1 in the appropriate places, mak 30.9.1.1.10	0.9.1.1.5 as follows: .5a and 30.9.1.1.5b a .1.7 as follows: .7a and 30.9.1.1.7b a .8a and 30.9.1.1.8b a .9a as follows: a new 30.9.1.1.10 as .: .11a and 30.9.1.1.11	as follows: as follows: as follows: follows: b as follows: "	LoadCounterB	DEFII in 30. Same <i>Suggeste</i>	<i>Type</i> E emicolon on line 4 NED AS: section. 9.1.1.5). issue in 30.9.1.1. <i>dRemedy</i> e the semicolons of	Ciena Corp <i>Comment Status</i> A 4 should not be there as th That is on line 8 where th	is is not the end o	
Response Resp ACCEPT.	oonse Status C			30.9. ² Suggeste	<i>Type</i> E ext at the end of 3 1.1.5a, so it should	Ciena Corp Comment Status A 0.9.1.1.5b seems to be the d start with "NOTE"		# <u>r01-9</u> <i>Editoria</i> t at the end of

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 30.9.1.1.6		P 37	L 54	# r01-10	C/ 30		.12.3.1.18	Ba	P 53	L 3	8	# r01-13	
Anslow, Peter		(Ciena Corpora	ation		Anslow, P	Peter			Ciena Corp	oration			
Comment Type	Е	Comment St	atus A		Editorial	Comment	туре Е	ER	Commen	t Status A				Editori
applied.	e in 30.9.1.1.7	nal cross-refer 7 with "33.5.1.2		ould have chara	icter tag "External"	insert "30.12	ed subclau: 2.3.1.18z1"	ises "30.1 ' through	2.3.1.18a "30.12.3.1	.18z13" shoul a" through "30 .18z15". tools/editorial/).12.3.1.18a	ab13" shou	ld be number	
00		ernal" to "33.5.	1 2 10" and "	335126"		Suggeste	dRemedy		-					
				55.5.1.2.0 .			-	struction,	change "3	0.12.3.1.18z1	3" to "30.12	.3.1.18z15	5" and also re-	
Response ACCEPT.		Response Sta	atus C				er subclaus gh "30.12.3			a" through "30	.12.3.1.18a	b13" to "30	0.12.3.1.18z1'	
CI 30 SC	C 30.12.2.1.1	180	P43	L 14	# r01-11	Response	9		Response	Status C				
Anslow, Peter	50.12.2.1.1		Ciena Corpora		# 101-11	ACCE	EPT.							
Comment Type	ER	Comment St			Editorial									
		n "30.12.2.1.18												
See http://w S <i>uggestedRem</i> e In the editin	vww.ieee802. edy ig instruction,	.org/3/WG_too , change "30.1:	ls/editorial/rec 2.2.1.18z15" 1		z17" and also re-									
See http://w SuggestedReme In the editin number sub	vww.ieee802. edy ig instruction,	.org/3/WG_too , change "30.1. 12.2.1.18aa" tl	ls/editorial/rec 2.2.1.18z15" 1	to "30.12.2.1.18										
See http://w SuggestedReme In the editin number sub	vww.ieee802. <i>edy</i> ng instruction, oclauses "30."	.org/3/WG_too , change "30.1. 12.2.1.18aa" tl	ls/editorial/rec 2.2.1.18z15" 1 hrough "30.12	to "30.12.2.1.18	z17" and also re-									
See http://w SuggestedReme In the editin number sub through "30	vww.ieee802. <i>edy</i> ng instruction, oclauses "30."	.org/3/WG_too , change "30.1: 12.2.1.18aa" tł 7".	ls/editorial/rec 2.2.1.18z15" 1 hrough "30.12	to "30.12.2.1.18	z17" and also re-									
See http://w SuggestedReme In the editin number sub through "30 Response ACCEPT.	ww.ieee802. edy ng instruction, oclauses "30. 1.12.2.1.18z17	org/3/WG_too , change "30.1: 12.2.1.18aa" tł 7". <i>Response Sta</i>	ls/editorial/rec 2.2.1.18z15" 1 hrough "30.12	to "30.12.2.1.18	z17" and also re- "30.12.2.1.18z1"									
See http://w SuggestedReme In the editin number sub through "30 Response ACCEPT.	vww.ieee802. <i>edy</i> ng instruction, oclauses "30."	org/3/WG_too , change "30.1: 12.2.1.18aa" ti 7". <i>Response Sta</i> 18o	ls/editorial/rec 2.2.1.18z15" 1 hrough "30.12 atus C	to "30.12.2.1.18 2.2.1.18ab15" to <i>L</i> 2	z17" and also re-									
See http://w SuggestedReme In the editin number sub through "30 Response ACCEPT. C/ 30 SC	ww.ieee802. edy ig instruction, oclauses "30. 0.12.2.1.18z17 C 30.12.2.1.1	org/3/WG_too , change "30.1: 12.2.1.18aa" ti 7". <i>Response Sta</i> 18o	Is/editorial/red 2.2.1.18z15" 1 hrough "30.12 atus C P 47 Ciena Corpora	to "30.12.2.1.18 2.2.1.18ab15" to <i>L</i> 2	z17" and also re- "30.12.2.1.18z1"									
See http://w SuggestedReme In the editin number sub through "30 Response ACCEPT. C/ 30 SC Anslow, Peter Comment Type According to since this us	ww.ieee802. edy g instruction, oclauses "30. 0.12.2.1.18z17 C 30.12.2.1.1 ER o http://www.	.org/3/WG_too , change "30.1: 12.2.1.18aa" th 7". <i>Response Sta</i> 180 (<i>Comment St</i> .ieee802.org/3/ n is not a keyw	Is/editorial/rec 2.2.1.18z15" t hrough "30.12 atus C P47 Ciena Corpora tatus A /WG_tools/ed	to "30.12.2.1.18 2.2.1.18ab15" to <i>L</i> 2 ation	z17" and also re- "30.12.2.1.18z1" # <u>r01-12</u>									
See http://w SuggestedReme In the editin number sub through "30 Response ACCEPT. C/ 30 SC Anslow, Peter Comment Type According to since this us	ww.ieee802. edy gg instruction, oclauses "30. 12.2.1.18z17 C 30.12.2.1.1 ER o http://www.ise of Boolear not boolean)".	.org/3/WG_too , change "30.1: 12.2.1.18aa" th 7". <i>Response Sta</i> 180 (<i>Comment St</i> .ieee802.org/3/ n is not a keyw	Is/editorial/rec 2.2.1.18z15" t hrough "30.12 atus C P47 Ciena Corpora tatus A /WG_tools/ed	to "30.12.2.1.18 2.2.1.18ab15" to <i>L</i> 2 ation	z17" and also re- "30.12.2.1.18z1" # <u>r01-12</u> <i>Editorial</i> ents/words.html#boole									
See http://w SuggestedRema In the editin number sub through "30 Response ACCEPT. C/ 30 SC Anslow, Peter Comment Type According to since this us used (and n SuggestedRema Change the Page 47, lin	ww.ieee802. edy g instruction, oclauses "30. 12.2.1.18z17 C 30.12.2.1.1 ER o http://www.ise of Boolear hot boolean)". edy e following occ he 2 hes 3, 23, 32 ines 3, 10	.org/3/WG_too , change "30.1: 12.2.1.18aa" ti 7". <i>Response Sta</i> 180 <i>Comment St</i> .ieee802.org/3/ n is not a keyw currences of "b	Is/editorial/red 2.2.1.18z15" t hrough "30.12 atus C P47 Ciena Corpora tatus A /WG_tools/ed yord "the capit	to "30.12.2.1.18 2.2.1.18ab15" to <i>L</i> 2 ation litorial/requirementalization Boolea	z17" and also re- "30.12.2.1.18z1" # <u>r01-12</u> <i>Editorial</i> ents/words.html#boole									
See http://w SuggestedRema In the editin number sub through "30 Response ACCEPT. C/ 30 SC Anslow, Peter Comment Type According to since this us used (and n SuggestedRema Change the Page 47, lin Page 57, lin Page 225, lin	ww.ieee802. edy g instruction, oclauses "30. 12.2.1.18z17 C 30.12.2.1.1 ER o http://www.ise of Boolear hot boolean)". edy e following occ he 2 hes 3, 23, 32 ines 3, 10	.org/3/WG_too , change "30.1: 12.2.1.18aa" ti 7". <i>Response Sta</i> 180 <i>Comment St</i> .ieee802.org/3/ n is not a keyw currences of "b	Is/editorial/red 2.2.1.18z15" t hrough "30.12 atus C P47 Ciena Corpora tatus A /WG_tools/ed vord "the capit	to "30.12.2.1.18 2.2.1.18ab15" to <i>L</i> 2 ation litorial/requirementalization Boolea	z17" and also re- "30.12.2.1.18z1" # <u>r01-12</u> <i>Editorial</i> ents/words.html#boole									

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/ 33 SC 33.	4.9.2.1	P 71	L 42	# r01-14
Anslow, Peter		Ciena Corp	oration	
Comment Type E	R Comn	nent Status A		Editorial
The editing instru garbled (e.g. a cl The base docum 33.4.9.1.3 Returr 33.4.9.1.4 Work 33.4.9.2 Midspar 33.4.9.2.1 Altern	nange instructio ent has: n loss area or equipm n signal path reo	on for a new subc ent cable Midspa quirements	lause, etc.). n PSE	p to 33.4.9.3.2 are
33.4.9.3.1 Multip subclause] 33.4.9.3.2 Multip subclause] 33.4.9.4 Midspar	n loss [changed dspan PSE [cha num link delay [num link delay s g parameters be le disturber pow le disturber pow n signal path ree	I subclause] anged subclause new subclause] skew [new subcla etween link segm ver sum alien nea ver sum alien far- quirements [re-nu	re-numbered fro use] ents [new subcla ar-end crosstalk (end crosstalk (Ps unbered subclaus	m 33.4.9.1.4] nuse] PSANEXT) loss [new SAFEXT) loss [new
would be: 33.4.9.1.3 Returr 33.4.9.1a Cord M 33.4.9.1a.1 Maxi 33.4.9.1a.2 Maxi 33.4.9.1b Couplin 33.4.9.1b Couplin 33.4.9.1b.1 Multi subclause] 33.4.9.1b.2 Multi subclause] 33.4.9.2 Midspar	n loss [changed lidspan PSE [cl mum link delay mum link delay ng parameters l ple disturber po ple disturber po n signal path red	subclause] hanged subclause [new subclause] skew [new subcl between link seg ower sum alien ne ower sum alien fa quirements [unalt	e re-numbered fr ause] ments [new subc ear-end crosstalk r-end crosstalk (f ered subclause]	-
SuggestedRemedy				
On page 71, line "Change the title On page 71, line	and text of 33.4 42, change the 1, 33.4.9.1a.2, 18, remove the eadings to: lidspan PSE	4.9.1.4 and re-nu editing instructic , and 33.4.9.1b (ii	mber it to 33.4.9. on to: ncluding its subcl	1a as follows:" auses) as follows:"

33.4.9.1a.2 Maximum link delay skew

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

33.4.9.1b Coupling parameters between link segments 33.4.9.1b.1 Multiple disturber power sum alien near-end crosstalk (PSANEXT) loss 33.4.9.1b.2 Multiple disturber power sum alien far-end crosstalk (PSAFEXT) loss

Response ACCE			Response Status	s W		
C/ 33	SC	33.8.2.2	Р	74	L 8	# r01-15
Anslow, P	eter		Cier	na Cor	poration	
Comment "IEEE		E 2.3-201x" s	Comment Statu should be "IEEE S		.3bt-201x"	Editorial
Suggester Chan		-	3-201x" to "IEEE S	Std 802	2.3bt-201x"	
Response ACCE			Response Status	s C		
CI 79	SC	79.3.2.4	Р	83	L 3	# <u>r</u> 01-16
Anslow, P	eter		Cier	na Cor	poration	
Comment	Туре	ER	Comment Statu	s A		Editorial
	0		only refers to Table be shown.	ə 79-4,	so the text of 79.3.2.	4 (which is
Suggeste delete		<i>ly</i> t in 79.3.2.	.4			
Response ACCE		RINCIPLE	Response Status E.	s W		
"The '	Power t	vpe/source	e/priority' field shal	l conta	in a bit-map of the po	ower type, source and

'The 'Power type/source/priority' field shall contain a bit-map of the power type, source and priority defined in Table 79-4 and is reported for the device generating the TLV."

This resolution is identical to comment #104.

Cl 79	SC 7	9.3.2.5	P 8	3	L 50	# r01-17
Anslow, Pet	er		Ciena	Corpo	ration	
Comment T "33.6.3.			Comment Status		79.3.2.6	Editorial
SuggestedF Make "3			reference here and	in 79.3	.2.6	
Response ACCEP	Τ.		Response Status	С		

Comment ID r01-17

Page 5 of 130 12/1/2017 3:17:22 PM

~ 70											
Cl 79	SC 7	9.3.2.5	P 83	L 52	# r01-18	C/ 79	SC	79.3.2.6c	P 85	L 45	# r01-21
Anslow, Pete	er		Ciena Corpo	oration		Anslow, F	eter		Ciena Corpora	ation	
Comment Ty	/pe	Е	Comment Status A		Editorial	Comment	Туре	Е	Comment Status A		Editoria
covered	by the	editing in	Delete Equation 79-1" is r struction: "Change 79.3.2 ruction: "Delete Equation	2.5 as follows:".	0	Suggeste	dRemec	dy	Table 79-6c in 79.3.2.6c is		
SuggestedRe Delete be	-	/ liting instru	uctions.			Table	79-6d t		Table 79-6e and renumber the field of the fi		
Response ACCEPT	Г.	-	Response Status C			Response ACCE	EPT.		Response Status C		
Cl 79	SC 7	9.3.2.5	P84	L14	# r01-19	<i>Cl</i> 79 Anslow, F		79.3.8.1	P 92 Ciena Corpora	L1	# r01-22
Anslow, Pete			Ciena Corpo	oration		,		_		allon	
Comment Ty	me	Е	Comment Status A		Editorial	Comment		E	Comment Status A the table continuation variable		Editoria
not exist. SuggestedRe	:. emedy	/	ed and 33.3.8.2 in underl		000 k, but 00.0.0.2 0000	Response ACCE	9		on" variable. This will add the Response Status C	. (
Response	00.0.	0.2 10 00	Response Status C			C/ 79	SC	79.3.8.2	P 92	L 40	# r01-23
ACCEPT	г					Anslow, F	eter		Ciena Corpora	ation	
CI 79	SC 7	'9.3.2.6c. 1		L 52	# <u>r01-20</u>	Comment The t		E '9.3.8.2 is ⁻	Comment Status A Table 79-7d, but it should be	Table 79-7c	Editoria
Anslow, Pete	er		Ciena Corpo	oration		Suggeste	dRemec	dy			
Comment Ty	/pe	Е	Comment Status A		Editorial	Chan	ge the ta	able to be [.]	Table 79-6c		
power va	alue fo	r Alternati	cated power value for Alte ve B field" as specified in Fable 79-6c and Table 79-	Table 79-6a and		Response ACCE			Response Status C		
SuggestedRe	emedy	/									
Change	"in Ta	ble 79-6a	and Table 79-6b" to "in Ta	able 79-6c and Ta	ble 79-6d"						
Response			Response Status C								

C/ 79 SC 79.5.3 P97 L7 C/ 145 P164 L4 # r01-28 # r01-24 SC 145.2.8.3 Anslow, Peter **Ciena Corporation** Anslow, Peter **Ciena Corporation** Comment Type E Comment Status A **F**ditorial Comment Type E Comment Status A **F**ditorial The editing instruction: "Insert new rows into the Table in 79.5.3 as follows:" does not say There are a number of instances of text that should be cross-references. where the new rows are to be placed. SuggestedRemedy SuggestedRemedy Change the following to cross-references: Change to: "Insert new rows at the end of the Table in 79.5.3 as follows:" "145.2.8.8" page 164, line 4 "145.1.3" page 168, line 23 Response Response Status C "Table 145-19" page 176. line 35 ACCEPT. "Table 145-41" page 244, line 7 (shouldn't this be Table 145-42?) "Table 145-42" page 244, line 8 (shouldn't this be Table 145-43?) C/ 79 SC 79.5.8 P98 # r01-25 "Equation (145-35)" page 270, line 8 L 23 "145.1.3" page 277, line 32 Anslow. Peter Ciena Corporation Response Response Status C Editorial Comment Type Е Comment Status A ACCEPT. In items PVT5 and PVT6. "Table 79-4" should be cross-references SuggestedRemedv P244 C/ 145 SC 145.5.4 L 24 # r01-29 Make "Table 79-4" cross-references In items PVT5 and PVT6. Anslow. Peter **Ciena Corporation** Response Response Status C Comment Type E Comment Status A Editorial ACCEPT. A table footnote should not start "NOTE--" it is already a note. Same issue with footnote to Table 145-43. C/ 79 SC 79.5.8 P99 L 38 # r01-26 See comment #147 from Michelle Turner, Managing Editor, IEEE-SA, which resulted in the removal of "NOTE -- " as documented in: Anslow, Peter **Ciena Corporation** http://www.ieee802.org/3/maint/public/healey 2 0917.pdf#page=3 Comment Status A Editorial Comment Type Е SuggestedRemedy In item PVT26, "50 K<omega>" should have a lower case "K" Delete "NOTE--" from the footnotes to Tables 145-42 and Table 145-43. SuggestedRemedy Response Response Status C Change "K" to "k" ACCEPT. Response Response Status C ACCEPT. C/ 145 SC 145.1 P103 L 22 # r01-27 Anslow, Peter **Ciena Corporation** Comment Type Е Comment Status A Editorial "Clause 14", "Clause 40", "Clause 55", and "Clause 126" should all be cross-references. SuggestedRemedy Make them all cross-references (and remove the character tag External) Response Response Status C ACCEPT. TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general Comment ID r01-29 Page 7 of 130 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

SORT ORDER: Comment ID

12/1/2017 3:17:22 PM

C/ 145 SC 145	P 151	L 10	# r01-30	C/ 145 S	SC 145.1	P 103	L 19	# r01-32
Anslow, Peter	Ciena Corpora	tion		Jones, Chad		Cisco System	s, Inc.	
Comment Type TR	Comment Status R		Editorial	Comment Typ	e E	Comment Status A		Editoria
"We will work with edi There is a distinction cell blank. Eg. For pa	atisfied comment i-1 against D3 litorial staff to try to clarify the sty between an em-dash, which inc arameters that convey a range, h of data, rather that the minimum	yle guide. Here i dicates 'a lack of naving a blank 'N	data', and leaving a /in' cell, does NOT	the cabling This seem	g portion of t	an element of the powering D ⁻ the system." d spot to introduce the term M iges later.		
	prrect message. Em-dashes hav			SuggestedRei	-			
	the style manual is different fror dments to IEEE Std 802.3. The				ted within th	he end of the 2nd paragraph ir ne cabling portion of the syster		lspan PSEs, or simply
	max or min cells without a value	should be show	vn differently to those	Response		Response Status C		
in other recent ameno SuggestedRemedy	iments.			ACCEPT	N PRINCIP	LE.		
Make sure all tables h blank min or max colu	have an entry of em-dash or poi umns in accordance with all othe 145-7, 145-8, 145-9, 145-10, 14	er recent amend	ments to IEEE 802.3.	other com PSEs loca	ments) in th Ited within th	er sentence quoted in the com e 2nd paragraph in 145.2: ne cabling portion of the syster	,	
145-32, 145-33.	140 7, 140 0, 140 0, 140 10, 14	,		Midspans.				
145-32, 145-33.	Response Status U	, ,		Also, capa P221 L45,	itizalize mid L46, L48	span in the following locations	:	
145-32, 145-33. Response REJECT. The comment resoluti entries as it means th ended ranges, not a la	Response Status U tion group believes that the em- here is "a lack of data". In Claus	dash is technica	y cells are due to open-	Also, capa P221 L45, P222, L12 [Editor's n Response	utizalize mid L46, L48 , L13, L16 ote added a asks to add	span in the following locations fter comment resolution comp d text after second paragraph c was placed in 145.1.]	leted:	comment & quote is
145-32, 145-33. Response REJECT. The comment resoluti entries as it means th ended ranges, not a la	Response Status U tion group believes that the em- here is "a lack of data". In Claus lack of data.	dash is technica		Also, capa P221 L45, P222, L12 [Editor's n Response about 145	atizalize mid L46, L48 , L13, L16 ote added a asks to ado .1. The text	fter comment resolution comp t text after second paragraph c was placed in 145.1.]	leted: of 145.2, but the	
145-32, 145-33. Response REJECT. The comment resoluti entries as it means th ended ranges, not a la 7 1 SC 1.4 cannow, R K	Response Status U tion group believes that the em- here is "a lack of data". In Claus lack of data. P4 IEEE/SELF	dash is technica se 145 the empt	y cells are due to open- # [<u>r01-31</u>	Also, capa P221 L45, P222, L12 [Editor's n Response about 145	utizalize mid L46, L48 , L13, L16 ote added a asks to add	fter comment resolution comp I text after second paragraph o was placed in 145.1.] P115	leted: of 145.2, but the <i>L</i> 3	comment & quote is # [<u>r01-33</u>
145-32, 145-33. Response REJECT. The comment resoluti entries as it means th ended ranges, not a la C/ 1 SC 1.4 Rannow, R K Comment Type T	Response Status U tion group believes that the em- nere is "a lack of data". In Claus lack of data. P4 IEEE/SELF Comment Status R	dash is technica se 145 the empt <i>L</i> 34	y cells are due to open- # [<u>r01-31</u> <i>Editorial</i>	Also, capa P221 L45, P222, L12 [Editor's n Response about 145 <i>Cl</i> 145 Jones, Chad	tizalize mid L46, L48 , L13, L16 ote added a asks to add 1. The text	fter comment resolution comp d text after second paragraph of was placed in 145.1.] P 115 Cisco System	leted: of 145.2, but the <i>L</i> 3	# <u>r01-33</u>
145-32, 145-33. Response REJECT. The comment resoluti entries as it means th ended ranges, not a la C/ 1 SC 1.4 Rannow, R K Comment Type T 1.4.313a pairset: Eith Alternative B, as lister connections are refer	Response Status U tion group believes that the em- here is "a lack of data". In Claus lack of data. P4 IEEE/SELF	dash is technica se 145 the empt <i>L</i> 34 connections, Alt PSE Alternative <i>J</i> respectively, at	y cells are due to open- # [<u>r01-31</u> <i>Editorial</i> ernative A or A and Alternative B	Also, capa P221 L45, P222, L12 [Editor's n Response about 145 <i>Cl</i> 145 Jones, Chad <i>Comment Typ</i> "A PSE de	tizalize mid L46, L48 , L13, L16 ote added a asks to add 1. The text GC 145.2.4 e E evice may pr ns named pa	fter comment resolution comp d text after second paragraph of was placed in 145.1.] P115 Cisco System Comment Status A rovide power via one or both of	leted: of 145.2, but the <i>L</i> 3 s, Inc.	# [<u>r01-33</u> Editoria
145-32, 145-33. Response REJECT. The comment resoluti entries as it means th ended ranges, not a la C/ 1 SC 1.4 Rannow, R K Comment Type T 1.4.313a pairset: Eith Alternative B, as lister connections are refer	Response Status U tion group believes that the em- here is "a lack of data". In Claus lack of data. P4 IEEE/SELF Comment Status R her of the two valid 4-conductor of the two valid 4-conductor of d in IEEE 802.3, 145.2.4. The P red to as Mode A and Mode B,	dash is technica se 145 the empt <i>L</i> 34 connections, Alt PSE Alternative <i>J</i> respectively, at	y cells are due to open- # [<u>r01-31</u> <i>Editorial</i> ernative A or A and Alternative B	Also, capa P221 L45, P222, L12 [Editor's n Response about 145 <i>CI</i> 145 Jones, Chad <i>Comment Typ</i> "A PSE de connection	tizalize mid: L46, L48 , L13, L16 ote added a asks to add .1. The text GC 145.2.4 e E evice may priss named pa comma	fter comment resolution comp d text after second paragraph of was placed in 145.1.] P115 Cisco System Comment Status A rovide power via one or both of	leted: of 145.2, but the <i>L</i> 3 s, Inc.	# [<u>r01-33</u> Editoria
145-32, 145-33. Response REJECT. The comment resoluti entries as it means th ended ranges, not a la 2/ 1 SC 1.4 Rannow, R K Comment Type T 1.4.313a pairset: Eith Alternative B, as lister connections are refer an ambiguous statem SuggestedRemedy	Response Status U tion group believes that the em- nere is "a lack of data". In Claus lack of data. P4 IEEE/SELF Comment Status R her of the two valid 4-conductor of id in IEEE 802.3, 145.2.4. The P rred to as Mode A and Mode B, hent. Is this eight (8) or four (4)	dash is technica se 145 the empty <i>L</i> 34 connections, Alt PSE Alternative <i>J</i> respectively, at wires?	y cells are due to open- # <u>r01-31</u> <i>Editorial</i> ernative A or A and Alternative B the PD appears to be	Also, capa P221 L45, P222, L12 [Editor's n Response about 145 <i>Cl</i> 145 Jones, Chad <i>Comment Typ</i> "A PSE de connection missing a <i>SuggestedRer</i> Change to	tizalize mid: L46, L48 , L13, L16 ote added a asks to add 1. The text 5C 145.2.4 e E evice may priss named parts comma <i>nedy</i> : "A PSE de	fter comment resolution comp d text after second paragraph of was placed in 145.1.] P115 Cisco System Comment Status A rovide power via one or both of	leted: of 145.2, but the <i>L</i> 3 s, Inc. f the two valid fo	# <u>r01-33</u> <i>Editoria</i> pur-conductor
145-32, 145-33. Response REJECT. The comment resoluti entries as it means th ended ranges, not a la 1 SC 1.4 cannow, R K Comment Type T 1.4.313a pairset: Eith Alternative B, as lister connections are referi an ambiguous statem SuggestedRemedy "1.4.313a pairset: vali	Response Status U tion group believes that the em- nere is "a lack of data". In Claus lack of data. P4 IEEE/SELF Comment Status R her of the two valid 4-conductor of id in IEEE 802.3, 145.2.4. The P rred to as Mode A and Mode B, hent. Is this eight (8) or four (4)	dash is technica se 145 the empty <i>L</i> 34 connections, Alt PSE Alternative <i>J</i> respectively, at wires?	y cells are due to open- # <u>r01-31</u> <i>Editorial</i> ernative A or A and Alternative B the PD appears to be	Also, capa P221 L45, P222, L12 [Editor's n Response about 145 <i>Cl</i> 145 Jones, Chad <i>Comment Typ</i> "A PSE de connection missing a <i>SuggestedRer</i> Change to	tizalize mid: L46, L48 , L13, L16 ote added a asks to add 1. The text 5C 145.2.4 e E evice may priss named parts comma <i>nedy</i> : "A PSE de	fter comment resolution comp d text after second paragraph of was placed in 145.1.] P115 Cisco System Comment Status A rovide power via one or both of airsets."	leted: of 145.2, but the <i>L</i> 3 s, Inc. f the two valid fo	# <u>r01-33</u> <i>Editoria</i> pur-conductor

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

IEEE P802.3bt D3.1 4-Pair PoE 1st Spo	onsor recirculation ballot comments
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C/ 145 SC 145.2.5.3	P118	L1	# r01-34		145.3.2	P176	6 L35	# r01-36
Jones, Chad	Cisco System	s, Inc.		Jones, Chad		Cisco S	Systems, Inc.	
Comment Type ER	Comment Status A		Editorial	Comment Type	ER	Comment Status	Α	Editoria
"For a dual-signature PD,	parallel and it should be st parallel detection means t		oth pairsets is done in			e: "PDs shall be capat /alid 4-pair configuratio		ower in any valid 2-pair able 145-19."
different Tdet cycles."				SuggestedReme	edy			
SuggestedRemedy Change to : "For a dual-s	ignature PD, staggered det	ection means th	nat detection both			be capable of acceptin tration as defined in Ta		alid 2-pair configuration and
pairsets is done in differe	-			Response		Response Status	C	
Response ACCEPT IN PRINCIPLE.	Response Status C			ACCEPT IN	PRINCIPL	E.		
Replace by: "Parallel detection refers	to detection on both pairse	ts being perform	ned in the same Tdet			of accepting power in a efined in Table 145-20.		onfiguration and any valid 4-
cycle."	s to detection on both pairs	sets being perfo	rmed in a different Tdet	fix link which This resoluti		cal to comment #221.		
Staggered detection refer	·	sets being perfo	rmed in a different Tdet	This resoluti			1 /26	# [r01-37
Staggered detection refer cycle." This resolution is identica C/ 145 SC 145.2.5.4	l to comment #141.	L7	rrmed in a different Tdet # r01-35	This resoluti	on is identi	P 20	1 <i>L</i> 26 Systems, Inc.	# [<u>r01-37</u>
Staggered detection refer cycle." This resolution is identica Cl 145 SC 145.2.5.4 ones, Chad Comment Type ER cut and paste error, pri sh error_condition_pri	l to comment #141. P 120 Cisco System Comment Status A	L7		This resoluti Cl 145 SC Jones, Chad Comment Type missing com "The maxim PDMaxPowe	en is identi 145.3.8.2 E uma: um averager Value in 2	P 20 Cisco S Comment Status e power, PClass_PD o	Systems, Inc. A r PClass_PD-2P	Editoira
Staggered detection refer cycle." This resolution is identica Cl 145 SC 145.2.5.4 Iones, Chad Comment Type ER cut and paste error, pri sh error_condition_pri SuggestedRemedy	I to comment #141. P120 Cisco System Comment Status A hould be sec:	L7	# r01-35	This resoluti Cl 145 SC Jones, Chad Comment Type missing com "The maxim PDMaxPowe	E I45.3.8.2 E Ima: um averag erValue in over a 1 se	P 20 Cisco S Comment Status e power, PClass_PD o 145.5.3.3.3, including a	Systems, Inc. A r PClass_PD-2P	Editoira
Staggered detection refer cycle." This resolution is identica Cl 145 SC 145.2.5.4 Iones, Chad Comment Type ER cut and paste error, pri sh error_condition_pri SuggestedRemedy Changed to: error_conditi	I to comment #141. P120 Cisco System Comment Status A hould be sec:	L7	# r01-35	This resoluti Cl 145 SC Jones, Chad Comment Type missing com "The maxim PDMaxPowe is averaged SuggestedReme change to: "The maxim PDMaxPowe	E T45.3.8.2 E um averag erValue in over a 1 se edy um averag erValue in	P 20 Cisco S Comment Status e power, PClass_PD o 145.5.3.3.3, including a	Systems, Inc. A r PClass_PD-2P any peak power di r PClass_PD-2P	Editoira in Table 145-29 or rawn per 145.3.8.4 COMMA in Table 145-29 or
Staggered detection refer cycle." This resolution is identica Cl 145 SC 145.2.5.4 lones, Chad Comment Type ER cut and paste error, pri sh error_condition_pri SuggestedRemedy Changed to: error_conditi Response ACCEPT IN PRINCIPLE.	I to comment #141. P120 Cisco System Comment Status A hould be sec: ion_sec	<i>L</i> 7 s, Inc.	# r01-35	This resoluti Cl 145 SC Jones, Chad Comment Type missing com "The maxim PDMaxPowe is averaged SuggestedReme change to: "The maxim PDMaxPowe	E T45.3.8.2 E um averag erValue in over a 1 se edy um averag erValue in	P 20 Cisco S Comment Status e power, PClass_PD o 145.5.3.3.3, including a econd sliding window." e power, PClass_PD o 145.5.3.3.3, including a	Systems, Inc. A r PClass_PD-2P any peak power di r PClass_PD-2P any peak power di	Editoira in Table 145-29 or rawn per 145.3.8.4 COMMA in Table 145-29 or

C/ 145 SC 145.4.9.		L 33	# r01-38		2145C.1	P 290	L1	# r01-41
Jones, Chad	Cisco System	ns, Inc.		Jones, Chad		Cisco System	s, Inc.	
Comment Type ER	Comment Status A		Editorial	Comment Type	TR	Comment Status A		Anne
through 5 in 145.4.9.1	an PSEs intended for operatio and 145.4.9.2) are additional ng signals between ports relat	lly required to m	neet the following	A with only t	wo decima siginficantly	3. Several entries are identica I places. This could lead to re y different but are caluclated to	ader confusior	n as the values in the 4th
SuggestedRemedy				00		nd (mA) and change the value	es in the colum	n to [.]
List them.				347 352	unig to 1001			
Response	Response Status C			358				
ACCEPT IN PRINCIP	LE.			363 369				
Delete "is limited" on I	ine page 221, line 37.			375				
Change sentence to:				382 389				
"Midspan PSEs intend	led for operation with 2.5G/50			397				
	.2) are additionally required to			406				
segments."	EXT for coupling signals betw	veen ports relat	ing to different link	416 427				
segments.				427				
C/ 145C SC 145C.1	P 287	L 28	# r01-39	Response		Response Status C		
ones, Chad	Cisco System	15, 110.		ACCEPT.				
Comment Type ER PI=25W. Should be 25	5.5W		Annex	CI 145C SC	0 145C.1	P 287	<i>L</i> 1	# r01-42
SuggestedRemedy				Jones, Chad		Cisco System	s, Inc.	
change to 25.5W				Comment Type	Е	Comment Status A		Pres: Jones
Response	Response Status C			*** Commen	t submitted	d with the file 94817600003-A	nnex_145C_m	arkup.docx attached ***
ACCEPT.				section is ne	w and con	tains many editorial errors.		
C/ 145C SC 145C.1	P 288	L8	# r01-40	SuggestedReme	edy			
Jones, Chad	Cisco System	-	# 101-40	see the attac adoption.	ched Anne	x_145C_markup.docx for edit	orial correction	s, submitted for
Comment Type ER	Comment Status A		Annex	Response		Response Status C		
PI=25W. Should be 2	5.5W			ACCEPT IN	PRINCIPI	,		
SuggestedRemedy change to 25.5W					-	in http://www.ieee802.org/3/b	t/public/nov17/	cjones_01_0117_final.pdf
Response	Response Status C			[Editor's note	e added af	ter comment resolution comp	leted:	
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 r01-42 Page

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Cl 25 SC 28.4.5 P29 L12 # [0143] RAN, ADEE Intel Corporation Intel Corporation Intel Corporation Comment Type E Comment Type											
The words "and Clause 145" are new. SuggestedRemody Apply underline format. Response Response Status C ACCEPT. C1 30 SC 30.9.1.1.5b P37 L28 # [01:44 C1 30 SC 30.9.1.1.5b P37 L28 # [01:44 C1 30 SC 30.9.1.1.5b P37 L28 # [01:44 The last paragraph seems to be a NOTE as in 30.9.1.1.51. SuggestedRemody Change To Tansmitted LLDPDU's to "in the transmitted Power Via MDI TLV". Response Response Status C ACCEPT. C1 79 SC 79.3.22 P82 L9 # [01:47 C1 79 SC 79.3.22 P85 Intel Corporation Comment Type E Comment Status A Editorial Number disagreement: 'A Type 3 or Type 4 PSEs that is" SuggestedRemedy Change 'PSEs' 0 'PSE'. Response Response Status C ACCEPT. C1 79 SC 79.3.22 P82 L11 # [01:48 C1 79 SC 79.3.22 P82 L11 # [01:48 SuggestedRemedy Change 'PSEs' 0 'PSE'. Response Response Status C ACCEPT. C1 79 SC 79.3.22 P82 L11 # [01:48 SuggestedRemedy Change 'S's 'PSE'. Response Response Status C ACCEPT. C1 79 SC 79.3.22 P82 L11 # [01:48 SuggestedRemedy Change 'S's 'PSE'. Response Response Status C ACCEPT. C1 79 SC 79.3.22 P82 L11 # [01:48 SuggestedRemedy Change 'S's 'PSE'. Response Response Status C ACCEPT. C1 79 SC 79.3.22 P82 L11 # [01:48 SuggestedRemedy Change 'S's 'PSE'. Response Response Status C ACCEPT. C1 79 SC 79.3.22 P82 L11 # [01:48 SuggestedRemedy Change 'S's 'PSE'. Response Response Status C ACCEPT. C1 79 SC 79.3.22 P82 L10 SuggestedRemedy Change 'S's 'PSE'. Response Response Status C ACCEPT. C1 79 SC 79.3.22 P82 L10 SuggestedRemedy Change 'S's 'PSE'. Response Response Status C ACCEPT. C1 79 SC 79.3.22 P82 L10 SuggestedRemedy Change 'S's 'PSE'. Response			-	L 12	# r01-43	-		79.3.2		L 51	# <u>r01-46</u>
Ci 30 SC 30.9.1.1.5b P37 L28 # 101-44 RAN, ADEE Intel Corporation Intel Corporation Intel Corporation Comment Type E Comment Status A Intel Corporation SuggestedRemedy Change to NOTE paragraph format or insert "NOTE" at the beginning of this paragraph. RAN, ADEE Intel Corporation Editorial Response Response Status C ACCEPT IN PRINCIPLE. Response Status A Editorial Ci 73 SC 33.4.9.1 P69 L31 # 101-45 RAN, ADEE Intel Corporation Intel Corporation Ci 79 SC 73.3.2.2 P82 L11 # 101-45 Ci 73 SC 33.4.9.1 P69 L31 # 101-45 Intel Corporation Ci 79 SC 73.3.2.2 P82 L11 # 101-48 Comment Type E Comment Status A Editorial Inside Corporation Ci 79 SC 73.3.2.2 P82 L11 # 101-48 Intel Corporation Intel Corporation Ci 79 SC 79.3.2.2 P82 L11 # 101-48 Intel Corporation Intel Corporation Ci 79 SC 79.3.2.2 P82 L11 # 101-48 <td>The wor SuggestedR Apply un Response</td> <td>rds "and Clause Remedy nderline format.</td> <td>145" are new.</td> <td></td> <td>Editorial</td> <td>LLDPI fields; Suggestec Chang Response</td> <td>DU is a f it is the IRemed ge "in tra</td> <td>field in the Power Via y</td> <td>LLDP frame (see 79.1.1.4). LL a MDI TLV that may include the LLDPDU's" to "in the transmitte</td> <td>m.</td> <td>es not have extension</td>	The wor SuggestedR Apply un Response	rds "and Clause Remedy nderline format.	145" are new.		Editorial	LLDPI fields; Suggestec Chang Response	DU is a f it is the IRemed ge "in tra	field in the Power Via y	LLDP frame (see 79.1.1.4). LL a MDI TLV that may include the LLDPDU's" to "in the transmitte	m.	es not have extension
The last paragraph seems to be a NOTE as in 30.9.1.1.51. SuggestedRemedy C Comment Type E Comme	RAN, ADEE	E	Intel Corporation	L 28	# r01-44	CI 79	SC 7	79.3.2.2		L 9	# r01-47
This resolution is identical to comment #9. C/ 79 SC 79.3.2.2 P82 L11 # [r01-48] C/ 33 SC 33.4.9.1 P69 L31 # [r01-45] RAN, ADEE Intel Corporation Comment Type E Comment Status A Editorial Per the style manual "In general text, isolated numbers less than 10 should be spelled out". SuggestedRemedy Change "5" to "five". Change "5" to "five". Response Response Status C ACCEPT IN PRINCIPLE. The comment resolution completed: C ACCEPT. CEPT.	The last SuggestedF Change Response	t paragraph seer Remedy to NOTE paragi	ns to be a NOTE as in 30.9.1.1. raph format or insert "NOTE" a <i>Response Status</i> C		of this paragraph.	Numb Suggested Chang Response	er disag <i>IRemed</i> ge "PSE	reement: y	"A Type 3 or Type 4 PSEs that	is"	Editorial
RAN, ADEE Intel Corporation Comment Type E Comment Status A Editorial Per the style manual "In general text, isolated numbers less than 10 should be spelled out". It isn't clear what "can indicate" means here. (Style manual: "can equals is able to") SuggestedRemedy Change "5" to "five". C Response Response Status C ACCEPT IN PRINCIPLE. C The comment should refer to line 19. [Editor's note added after comment resolution completed: A								79.3.2.2		L 11	# <u>r01-48</u>
[Editor's note added after comment resolution completed:	RAN, ADEE Comment T Per the SuggestedR Change Response	<u>ype</u> E style manual "In Remedy 9 "5" to "five".	Intel Corporation Comment Status A general text, isolated numbers Response Status C		Editorial	It isn't (Style <i>Suggested</i> Chang <i>Response</i>	clear wi manual <i>IRemed</i> ge "can i	nat "can ir : "can equ y	ndicate" means here. als is able to") o "indicates".		Editorial
	The con	mment should re	fer to line 19.								
The Suggested Remedy was implemented on line 19.]	[Editor's	s note added afte	er comment resolution complete	d:							
	The Sug	ggested Remedy	was implemented on line 19.]								

SC 79.3.2.6c.1 C/ 79 P87 # r01-49 C/ 145 P166 # r01-51 L 34 SC 145.2.8.5 L16 RAN, ADEE Intel Corporation RAN, ADEE Intel Corporation Comment Type Е Comment Status A Comment Type E Comment Status A **F**ditorial Inconsistent quotes (here double, elsewhere single), and "field" should not be within the Per the style manual, the use of the word will is deprecated. auotes. Also in 145.3.8.10. Compared to 79.3.2.6: The 'PSE allocated power value' field SugaestedRemedv Change "the current will not equally divide" do "the current does not equally divide" or "the Also in 79.3.2.6c.2 and perhaps other places. current may not equally divide". SugaestedRemedv Response Response Status C Change double guotes to single, and move the word "field" outside of the guotes, in ACCEPT IN PRINCIPLE. multiple cases in 79.3.2.6c.1 and 79.3.2.6c.2. Change "the current will not equally divide" to "the current may not equally divide" Fix similar inconsistencies across this clause. Response Response Status C C/ 145 SC 145.3.2 P176 L 41 # r01-52 ACCEPT IN PRINCIPLE. RAN, ADEE Intel Corporation Comment Status R Comment Type **G** Editorial Comment should refer to page 85, line 49. The NOTE seems to repeat (informatively) what the clause text above it is stating (normatively). [Editor's note added after comment resolution completed: Saying that something is not allowed does not belong in an informative note. The Suggested Remedy was implemented on page 85, line 49.] SuggestedRemedy C/ 145 SC 145.2.4 P115 L6 # r01-50 Delete the note. RAN. ADEE Intel Corporation If it isn't clear that both Mode A and Mode B need to be supported, add a "shall" statement Comment Type E Comment Status A Editorial in the preceding paragraph. "Alternatives A and Alternative B" Response Response Status C SuggestedRemedy REJECT. Change to "Alternative A and Alternative B". The shalls do exist and yes this is a restatement of the text above. It is in a note for Response Response Status C emphasis. This comment is out of scope and does not add clarity to the document and is therefore rejected. ACCEPT IN PRINCIPLE. "... which for PSEs are named Alternative A and Alternative B."

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

This resolution is identical to comment #137.

C/ 1	SC 1.4.41	7	P 25	L17	# r01-54	C/ 1	SC	0 1.4.418ac	P 25		L 35	# r01-55
Agnes, A	ndrea		STMicroelec	ctronics		Agnes, Ar	ndrea		STMicr	oelectroni	CS	
Commen	t Type G	Co	omment Status A		Definitions	Comment	Туре	G	Comment Status	Α		Definitions
1.4.4 class class Class	ification, unde ification reque sification, and	rstands 2- sts Class supports [at provides a Class 4 s Event classification, a 4 during Physical Lay Data Link Layer 3, Clause 33).	and is capable of		The d 1.4.4 classi	fication	n: ype 4 PD: A n, implemer	APD that requests Cla ts Multiple-Event clas pts power on both Mo	sification,	is capable of	
uses	a Multiple-Eve	nt Classif	fication, but it is not de	efined in Clause	33.	doesr	n't inclu	ide dual sig	nature PDs because (Class5 is r	requested	
Suggeste	edRemedy					Suggeste	dReme	edy				
Use t beca		assificatio	n in the defintion as c	alled in Clause 3	3. Then the definition	Chan	ge defii	nition to:				
class class Class	ification, unde	rstands 2- sts Class supports [at provides a Class 4 s Event classification, a 4 during Physical Lay Data Link Layer 2 Claure 22	and is capable of	Data Link Layer	signa classi	ture PD	D that reque	single-signature PD ests Class 5 on at leas tts Multiple-Event clas pts power on both Mo	t one Moo sification,	le during Phy is capable of	sical Layer
	,					Response	9		Response Status	С		
Response			sponse Status C			ACCE	EPT IN	PRINCIPLI	Ε.			
ACCI	EPT IN PRINC	IPLE.				Chan	ae defii	nitions to:				
Chan	nge "Mulitple-E	vent" to "2	2-Event"			1.4.4 signa classi powe 1.4.4	18aa Ty ture PD ification r on bo 18ac Ty	ype 3 PD: A D that reque n. Additiona oth Modes s ype 4 PD: A	A single-signature PD ests Class 1 to Class 4 Ily, the PD implement imultaneously. (See If A single-signature PD f est Class 5 on at least	t on both I s Multiple EEE 802.3 that reque	Modes, during Event classif 3, Clause 145 ests Class 7 o	y Physical Layer ication, and accepts). r Class 8, or a dual-
						classi Data IEEE	fication Link La 802.3,	n. Additiona ayer classifi Clause 145	Ily, the PD implement cation, and accepts po 5).	s Multiple-	Event classif	ication, is capable of
						Thin .	in a a lusti	an in identia	al to commont #200			

This resolution is identical to comment #288.

	4.418aa	P 25	L 28	# r01-56	C/ 145	SC 14	45.3.1		P176	L 23	# r01-57
Agnes, Andrea		STMicroelect	ronics		Agnes, An	ldrea			STMicroelect	ronics	
Comment Type	G Co.	mment Status A		Definitions	Comment	Туре	E	Comment	Status A		Editoria
The definition:		mment TYPE4 is accept	,			formation			PD is defined	as Type4 althoug	gt just one Mode
classification, in	nplements	hat requests Class 1 to	0	Physical Layer ultaneously. (See IEEE	Suggested Add N			able 145-19:			
802.3, Clause 145).					NOTE	3 - Туре	4 dual-s	signature PDs	request Class	5 on at least one	e pairset
SuggestedRemedy Change definitio	on to:				Response ACCE			Response S	Status C		
1.4.418aa Type signature PD th	a PD: A singlat requests C	le-signature PD that re lass 1 to Class 4 on bo	oth Modes during	Physical Layer	<i>Cl</i> 145 Agnes, An		45.2.5.4		P 118 STMicroelect	L 42	# r01-58
		Iltiple-Event classificati 02.3, Clause 145).	ion, and accepts	power on both Modes	Comment	Туре	E	Comment	Status A		Altpwre
Response	Res	ponse Status C			alt_pw	vrd_sec h	as value	TRUE also w	hen power is a	applied (as alt_pv	vrd_pri)
ACCEPT IN PR	INCIPLE.				Suggested	dRemedy					
Change definition	ons to:				Chang	ge the def	finition of	f TRUE:			
		le-signature PD that re lass 1 to Class 4 on bo						etected, classi ng Secondary		ower a PD on the	e Secondary
classification. A	dditionally, the	e PD implements Multi aneously. (See IEEE 80	ple-Event classi	ication, and accepts	Response ACCE	PT IN PR	RINCIPLE	Response S E.	Status C		
signature PD that	at request Cla	le-signature PD that re ass 5 on at least one N e PD implements Multi	lode, during Phy	sical Layer		ce quotec SE: The c			perating voltage	e to the Primary <i>i</i>	Alternative is disabled."
	classification	, and accepts power o				E: The cir	cuitry tha	at applies ope	rating voltage	to the Primary Al	ternative is enabled."
This resolution i	is identical to	comment #288.				ne same f					
					This re	esolution	is identic	cal to commer	nt #142.		

Comment TypeERComment StatusAEditorialComment TypeTRComment StatusAWe pulled in the definition of PSE as modified by 802.3bu. The term "DTE powering" is still used here, which we now refer to as Power over Ethernet. To be consistent, we call it "Power over Data Lines" for Clause 104. There also seems to be a repeat of a sentence in the definition. Given the extensive changes, we should just replace the definition completely.EditorialComment TypeTRComment StatusA"A 100BASE-TX transmitter in a Type 2, Type 3, or Type 4 Endpoint PSE 3, or Type 4 PD delivering or accepting more than 13.0 W average power the Open Circuit Inductance (OCL) requirement in 9.1.7 of TP- PMD, or n requirements of 25.4.5.1.""A 100BASE-TX transmitter in a Type 2, Type 3, or Type 4 Endpoint PSE 3, or Type 4 PD delivering or accepting more than 13.0 W average power the Open Circuit Inductance (OCL) requirement in 9.1.7 of TP- PMD, or n requirements of 25.4.5.1."	# r01-61	L 12	P 29	4.5	SC 2	Cl 25	# r01-60	L 40	P 24	88	SC 1.4	C/ 1
 We pulled in the definition of PSE as modified by 802.3bu. The term "DTE powering" is still used here, which we now refer to as Power over Ethernet. To be consistent, we call it "Power over Data Lines" for Clause 104. There also seems to be a repeat of a sentence in the definition. Given the extensive changes, we should just replace the definition completely. SuggestedRemedy Change the editing instruction from "Change 1.4.338 (as modified by IEEE Std 802.3bu-2016) as follows:" Replace 1.4.338 (incorporating the changes made by IEEE Std 802.3bu-2016) as follows:" 2. New text: "1.4.338 Power Sourcing Equipment (PSE): A DTE or midspan device that provides the power to a single link section. PSEs are defined for use with two different types of balanced twisted-pair (BASE-T) PHYs, see IEEE Std 802.3, Clause 33 and Clause 145, Power over Ethernet is intended to provide a single 10BASE-T, 100BASE-TX, 100BASE-TX, 100BASE-TX, 100BASE-TX, 100BASE-TX, 100BASE-T, 2.5GBASE-T, 5GBASE-T, or 10GBASE-T tor Add new sentence: Add new sentence: A 100BASE-TX transmitter in a Type 3 or Type 4 Endpoint PSE or Type 2 PD delivering or accepting more than 13.0 W average power than 13.0 W" was introduced requirement to Type 1. Eters that 0.2, Power over Ethernet to provide a single 100BASE-T, 100BASE-TX transmitter in a Type 2 Endpoint PSE or Type 2 PD delivering or accepting more than 13.0 W" was introduced requirement in 9.1.7 of TP- PMD, or meet the requirements of 25.4.5.1." 			Philips Lighting		Lennart	Yseboodt			Philips Lightin		Lennart	Ysebood
The term "DTE powering" is still used here, which we now refer to as Power over Ethernet. To be consistent, we call it "Power over Data Lines" for Clause 104. There also seems to be a repeat of a sentence in the definition. Given the extensive changes, we should just replace the definition completely. <i>SuggestedRemedy</i> 1. Change the editing instruction from "Change 1.4.338 (as modified by IEEE Std 802.3bu- 2016) as follows:" 2. New text: "1.4.338 Power Sourcing Equipment (PSE): A DTE or midspan device that provides the power to a single link section. PSEs are defined for use with two different types of balanced twisted-pair PHYs. When used with 2 or 4 pair balanced twisted-pair (BASE-T) PHYs, see IEEE Std 802.3, Clause 33 and Clause 145, Power over Ethernet is intended to provide a single 10BASE-T, 100BASE-T, 2.5GBASE-T, 5GBASE-T, or 10GBASE-T device with a unified interface for both the data it requires and the power to process these data. When used with single balanced twisted-pair (BASE-T) PHYs (see IEEE Std 802.3, Clause 104), Power over Data Lines is intended to provide a single 100BASE-T1 or There also seems this intended to provide a single 100BASE-T1 or There also seems this whole construction with "more than 13.0 W" average power that 0 and requirement in 9.1.7 of TP- PMD, or meet the requirement of the PS We really should be referring to Class here. But do we mean assigned be strange that a data requirement depends on the assigned Class. It seems this whole construction with "more than 13.0 W" was introduced requirement to Type 1. Let's simplify. <i>SuggestedRemedy</i> - Change quoted sentence to read: "A 100BASE-TX transmitter in a Type 3 or Type 4 Endpoint PSE or Type shall meet either the Open Circuit Inductance (OCL) requirement in 9.1.7 of TP- PMD, or meet the requirements of 25.4.5.1."	PME		Comment Status A	R	Туре	Comment	Editorial		nent Status A	С	Туре Г	Commen
 SuggestedRemedy 1. Change the editing instruction from "Change 1.4.338 (as modified by IEEE Std 802.3bu-2016) as follows:" 2. New text: "1.4.338 (incorporating the changes made by IEEE Std 802.3bu-2016) as follows:" 2. New text: "1.4.338 Power Sourcing Equipment (PSE): A DTE or midspan device that provides the power to a single link section. PSEs are defined for use with two different types of balanced twisted-pair PHYs. When used with 2 or 4 pair balanced twisted-pair (BASE-T) PHYs, see IEEE Std 802.3, Clause 33 and Clause 145, Power over Ethernet is intended to provide a single 10BASE-T, 10DBASE-T, 2.5GBASE-T, 5GBASE-T, or 10GBASE-T, device with a unified interface for both the dat it requires and the power to process these data. When used with single balanced twisted-pair (BASE-T) PHYs (see IEEE Std 802.3, Clause 104), Power over Data Lines is intended to provide a single 100BASE-T1 or 	er shall meet either meet the	W average po of TP- PMD,	ng or accepting more than 13. Ince (OCL) requirement in 9.1 ."	deliverii Inducta 25.4.5.1	Type 4 P pen Circ ements (3, or the O requir		now refer to as or Clause 104. definition.	used here, which w ver over Data Lines" t of a sentence in th	vering" is ve call it " o be a re	erm "DTE p consisten also seen	The To b Ther
 1. Change the editing instruction from "Change 1.4.338 (as modified by IEEE Std 802.3bu-2016) as follows:" 2. New text: *1.4.338 Power Sourcing Equipment (PSE): A DTE or midspan device that provides the power to a single link section. PSEs are defined for use with two different types of balanced twisted-pair PHYs. When used with 2 or 4 pair balanced twisted-pair (BASE-T) PHYs, see IEEE Std 802.3, Clause 33 and Clause 145, Power over thernet is intended to provide a single 10BASE-T, 100BASE-TX, 100BASE-TX, 100BASE-TX, 5GBASE-T, 5GBASE-T, or 10GBASE-T device with a unified interface for both the data it requires and the power to process these data. When used with single balanced twisted-pair (BASE-T1) PHYs (see IEEE Std 802.3, Clause 104), Power over Data Lines is intended to provide a single 100BASE-T1 or 											Remedy	Suggeste
 "1.4.338 Power Sourcing Equipment (PSE): A DTE or midspan device that provides the power to a single link section. PSEs are defined for use with two different types of balanced twisted-pair PHYs. When used with 2 or 4 pair balanced twisted-pair (BASE-T) PHYs, see IEEE Std 802.3, Clause 33 and Clause 145, Power over Ethernet is intended to provide a single 10BASE-T, 100BASE-TX, 1000BASE-T, 2.5GBASE-T, of 10GBASE-T device with a unified interface for both the data it requires and the power to process these data. When used with single balanced twisted-pair (BASE-T1) PHYs (see IEEE Std 802.3, Clause 104), Power over Data Lines is intended to provide a single 100BASE-T1 or - Change quoted sentence to read: "A 100BASE-TX transmitter in a Type 2 Endpoint PSE or Type 2 PD delimeter than 13 W average power shall meet either the Open Circuit Induct requirement in 9.1.7 of TP- PMD, or meet the requirements of 25.4.5.1." - Add new sentence: "A 100BASE-TX transmitter in a Type 3 or Type 4 Endpoint PSE or Type shall meet either the Open Circuit Inductance (OCL) requirement in 9.1.7 		gned Class.	equirement depends on the as	data re	ange tha ms this v ement to	be str It see requir	,	,	0	0	as follows place 1.4.	2016 to "R
 power to a single link section. PSEs are defined for use with two different types of balanced twisted-pair PHYs. When used with 2 or 4 pair balanced twisted-pair (BASE-T) PHYs, see IEEE Std 802.3, Clause 33 and Clause 145, Power over Ethernet is intended to provide a single 10BASE-T, 100BASE-TX, 1000BASE-T, 2.5GBASE-T, 5GBASE-T, or 10GBASE-T device with a unified interface for both the data it requires and the power to process these data. When used with single balanced twisted-pair (BASE-T) PHYs (see IEEE Std 802.3, Clause 104), Power over Data Lines is intended to provide a single 100BASE-T1 or "A 100BASE-TX transmitter in a Type 2 Endpoint PSE or Type 2 PD delimeters and the open circuit Induct requirement in 9.1.7 of TP- PMD, or meet the requirements of 25.4.5.1." Add new sentence: "A 100BASE-TX transmitter in a Type 3 or Type 4 Endpoint PSE or Type shall meet either the Open Circuit Inductance (OCL) requirement in 9.1.7 					dRemed	Suggeste					v text:	2. Ne
Clause 104), Power over Data Lines is intended to provide a single 100BASE-T1 or shall meet either the Open Circuit Inductance (OCL) requirement in 9.1.7	ctance (OCL)	pen Circuit Indents of 25.4.5.	itter in a Type 2 Endpoint PSE e power shall meet either the rP- PMD, or meet the requirer	transm average 1.7 of 1	0BASE-1 than 13 ement in new sen	"A 10 more requir - Add	erent types of balanced r (BASE-T) PHYs, see intended to provide a SE-T, or 10GBASE-T ower to process these	e with two differed twisted-pair ver Ethernet is BASE-T, 5GBA ires and the po	SEs are defined for with 2 or 4 pair balar Clause 145, Power , 1000BASE-T, 2.50 or both the data it red	nk section When us ause 33 a 00BASE d interfac	to a single d-pair PH Std 802.3, 10BASE- with a un	powe twist IEEE singl device
			en Circuit Inductance (OCL) r	the Op	meet eith	shall	100BASE-T1 or uires and the power to	ovide a single 1 the data it requ	ines is intended to p fied interface for bot	r over Da ce with a	e 104), Po BASE-T1 d	Clau 1000
process these data. A PSE used with balanced single twisted-pair PHYs is also referred to as a PoDL PSE." Response C			Response Status C		;	Response	'HYS IS also referred to	twisted-pair P	d with balanced sing	. A PSE		
Response Response Status C					PT.	ACCE			nse Status C	Re		

Change definition to:

"1.4.338 Power Sourcing Equipment (PSE): A DTE or midspan device that provides the power to a single link section. PSEs are defined for use with two different types of balanced twisted-pair PHYs. When used with 2 or 4 pair balanced twisted-pair (BASE-T) PHYs, see IEEE Std 802.3, Clause 33 and Clause 145, Power over Ethernet is intended to provide a single 10BASE-T, 100BASE-TX, 1000BASE-T, 2.5GBASE-T, 5GBASE-T, or 10GBASE-T device with a unified interface for both the data it requires and the power to process these data. When used with single balanced twisted-pair (BASE-T1) PHYs (see IEEE Std 802.3, Clause 104), Power over Data Lines is intended to provide a single 100BASE-T1 device with a unified interface for both the data it requires and the power to process these data. A PSE used with balanced single twisted-pair PHYs is also referred to as a PoDL PSE."

with editorial practices outlined in the suggested remedy.

This resolution is identical to comment #3.

	30.9.1.1.5	P 36	L 31	# r01-62	CI 30	SC 30.9.1.1	.5a	P 36	L 41	# r01-63
Yseboodt, Lenna	irt	Philips Lighting	I		Yseboodt,	Lennart		Philips Lightir	ng	
Comment Type	Е	Comment Status A		Editorial	Comment	Туре Т	Comment	Status A		Management
error_condition	on = true."	ate diagram is in the state l tate diagram boolean variat			"The estate is in the	POWER_ON_P he state IDLE_P	PliveringPowerA RI. The enume RI due to the v	eration "faultAltA ariable error_c	A" indicates that ondition_pri = tru	te diagram is in the the PSE State diagram le. The enumeration than those listed
-	du				above	0		late ulagraffi is	in a state other	
SuggestedReme Change true					Lland					
Ū		Deenenee Status			Hard- right.	links Alternative	A to the Prima	iry state diagrar	m. Only has a su	% chance of being
Response ACCEPT IN		Response Status C			Suggeste	dRemedv				
from an exist - Add "or Fig	rikeouts for 't ting object ure 145-13" a e 3 and Type	es: est' and 'otherFault' as we c after "Figure 33-9" 4 PSEs do not use the valu			"The e state enum alt_pr (if alt_	POWER_ON_P eration "faultAlt/ i='a', or the state _pri='a') or error_ chingAltA" indica	RI if alt_pri='a', A" indicates that IDLE_SEC if _condition_sec	or the state P0 at 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 ne state IDLE_PRI if ror_condition_pri = true meration than those listed
This resolution	on is identica	to comment #368.			Response)	Response	Status C		
					ACCE	PT IN PRINCIP	PLE.			
					"The e state enum alt_pr TRUE	POWER_ON_P eration "faultAlt/ i='a', or the state : (if alt_pri='a') o chingAltA" indica	RI if alt_pri='a', A" indicates that IDLE_SEC if r error_condition	or the state P0 at the PSE State alt_pri='b' due t on_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 similar change for the Note directly below.

	<u> </u>
C/ 30 SC 30.9.1.1.5b P 37 L 10 # r01-64 Yseboodt, Lennart Philips Lighting	C/ 30 SC 30.9.1.1.7 P 38 L 9 # r01-65 Yseboodt, Lennart Philips Lighting Philips Lighting Philips Lighting
Comment Type T Comment Status A Management aPSEPowerDetectionStatusB: "The enumeration "deliveringPowerAltB" indicates that the PSE State diagram is in the state POWER_ON_SEC. The enumeration "faultAltB" indicates that the PSE State diagram is in the state IDLE_SEC due to the variable error_condition_sec = true. The enumeration "searchingAltB" indicates the PSE State diagram is in a state other than those listed above.;" Hard-links Alternative B to the Secondary state diagram. Only has a 50% chance of being right.	"This counter is incremented when the Type 1 and Type 2 PSE state diagram (Figure 33-9 and Figure 145-13) enters the state SIGNATURE_INVALID." The reference Figure 145-13 does not belong with a Type1 or 2 PSE. SuggestedRemedy Remove "and Figure 145-13". Response Response Status C
SuggestedRemedy Replace text by: "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.;"	ACCEPT. C/ 30 SC 30.9.1.1.7a P 38 L 15 # r01-66 Yseboodt, Lennart Philips Lighting Comment Type T Comment Status A Management aPSEInvalidSignatureCounterA: "This counter is incremented when the Type 3 and Type 4 PSE state diagram (Figure 145- 15) enters the state IDLE_PRI due to sig_pri [?] valid.;"
Response Response Status C ACCEPT IN PRINCIPLE.	Hard-links Alternative A 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 aPSEInvalidSignatureCounterA to also serve single-signature.
Replace text by: "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	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 A

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).

depending on the value of alt_pri, returns 'invalid'.;" Response Status C

ACCEPT.

Response

C/ 30 SC 30.9.1.1.7b P 38 L 27 # [r01-67] Yseboodt, Lennart Philips Lighting	C/ 30 SC 30.9.1.1.8b P 39 L 9 # r01-69 Yseboodt, Lennart Philips Lighting Philips Lighting Philips Lighting Philips Lighting
Comment Type T Comment Status A Management 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.;"	Comment Type T Comment Status A Manageme aPSEPowerDeniedCounterB: "This counter is incremented when the PSE state diagram (Figure 145-16) enters the state POWER_DENIED_SEC.;"
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	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)
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'.;"	enters the state POWER_DENIED_SEC if alt_pri='a', or enters the state POWER_DENIED_PRI if alt_pri='b'.;" Response Response Status C ACCEPT.
Response Response Status C ACCEPT.	C/ 30 SC 30.9.1.1.9a P 39 L 35 # [r01-70] Yseboodt, Lennart Philips Lighting
CI 30 SC 30.9.1.1.8a P38 L 52 # r01-68 Yseboodt, Lennart Philips Lighting Philips Lighting Comment Type T Comment Status A Management aPSEPowerDeniedCounterA: "This counter is incremented when the PSE state diagram (Figure 145-15) enters the state POWER_DENIED_PRI.;"	Comment Type T Comment Status A Manageme aPSEOverLoadCounterA: "This counter is incremented when the PSE state diagram (Figure 145-15) enters the state ERROR_DELAY_PRI.;" Hard-links Alternative A to the Primary or Alternative B to the Secondary state diagram.
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='b'.:"	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_SEC if alt_pri='b'.;" Response Response Status
Response Response Status C ACCEPT.	ACCEPT.

C/ 30 SC 30.9.1.1.									
		L 46	# r01-71	C/ 30	SC 30.9.1.1	.10b	P 40	L 34	# r01-73
Yseboodt, Lennart	Philips Lighting			Yseboodt, I	Lennart		Philips Lighting	g	
Comment Type T	Comment Status A		Management	Comment 7	51	Comment	Status A		Manageme
	OverLoadCounterB) has the sar erA and has a copy-paste mistal).9.1.1.9a	"This c		mented when th		agram (Figure 14 e IDLE_SEC due	15-16) transitions e to
	nented when the PSE state diag	ıram (Figure 145-	16) enters the state			ne being asserte	,		
ERROR_DELAY_PRI	- "'					A to the Primar	ry or Alternative	B to the Second	dary state diagram.
Hard-links Alternative	A to the Primary or Alternative B	3 to the Secondar	ry state diagram.	Suggested	-				
SuggestedRemedy	·			Change "This o		mented when th	o PSE stato dia	aram (Figure 14	15-15 or Figure 145-16
Change to:								to the state IDL	
	nented when the PSE state diag DR_DELAY_SEC if alt_pri='a', or if alt_pri='b'.;"				R_ON_PRI to				lirectly from the state one being asserted, if
- Fix subclause numbe	aring			Response		Response S	Status C		
Response	Response Status C			ACCEF	PT.				
ACCEPT.	Response Status				SC 30.12.2		P 42	L13	# 04.74
				C/ 30 Yseboodt, I		1.10	P 42 Philips Lighting		# r01-74
C/ 30 SC 30.9.1.1.	.10a P40	L 23	# r01-72	,		0		y .	
Yseboodt, Lennart	Philips Lighting			Comment 7	5100	Comment			Manageme
Comment Type T	Comment Status A		Management		dot3LocPower specified in 33		only value that i	indicates the PD	Class of the detected
51	ator A.		3	FD as	specifica in 55	2.6."			
aPSEMPSAbsentCour "This counter is incren	nented when the PSE state diag POWER_ON_PRI to the state II		Ū	ls also It is une From re	defined in 145 clear from this eading 33.2.6	2.7. text if this is the gather it was ir		equested Class.	
aPSEMPSAbsentCour "This counter is increm directly from the state mpdo_timer_pri_done	nented when the PSE state diag POWER_ON_PRI to the state II	DLE_PRI due to	15) transitions	Is also It is uno From ro This is	defined in 145 clear from this eading 33.2.6 tricky because	2.7. text if this is the gather it was ir	itended as the r		
aPSEMPSAbsentCour "This counter is incren directly from the state mpdo_timer_pri_done Hard-links Alternative	nented when the PSE state diag POWER_ON_PRI to the state II being asserted.;"	DLE_PRI due to	15) transitions	ls also It is une From re	defined in 145 clear from this eading 33.2.6 l tricky because <i>Remedy</i>	2.7. text if this is the gather it was ir	itended as the r	equested Class.	
aPSEMPSAbsentCour "This counter is increm directly from the state mpdo_timer_pri_done Hard-links Alternative SuggestedRemedy Change to: "This counter is increm transitions directly fror	nented when the PSE state diag POWER_ON_PRI to the state II being asserted.;" A to the Primary or Alternative B nented when the PSE state diag n the state POWER_ON_PRI to	DLE_PRI due to 3 to the Secondar gram (Figure 145- o the state IDLE_I	15) transitions ry state diagram. 15 or Figure 145-16) PRI due to	Is also It is und From re This is Suggested Change "A reac and 14	defined in 145 clear from this eading 33.2.6 I tricky because <i>Remedy</i> e to: d-only value that	2.7. text if this is the gather it was in "requested Cla ti indicates the l and Type 4 device	ntended as the r iss" is not a con PD Class of the	requested Class. cept known in C	lause 33. s specified in 33.2.6
aPSEMPSAbsentCour "This counter is increm directly from the state mpdo_timer_pri_done Hard-links Alternative SuggestedRemedy Change to: "This counter is increm transitions directly fror mpdo_timer_pri_done	nented when the PSE state diag POWER_ON_PRI to the state II being asserted.;" A to the Primary or Alternative B nented when the PSE state diag m the state POWER_ON_PRI to being asserted if alt_pri='a', or,	DLE_PRI due to 3 to the Secondar gram (Figure 145- o the state IDLE_ transitions direct	15) transitions ry state diagram. 15 or Figure 145-16) PRI due to ly from the state	Is also It is und From re This is Suggested Change "A reac and 14	defined in 145 clear from this eading 33.2.6 I tricky because <i>Remedy</i> e to: J-only value tha 5.2.7. Type 3 a	2.7. text if this is the gather it was in "requested Cla ti indicates the l and Type 4 device	ntended as the r liss" is not a con PD Class of the ces use the PD	equested Class. cept known in C detected PD as	lause 33. specified in 33.2.6
aPSEMPSAbsentCour "This counter is increm directly from the state mpdo_timer_pri_done Hard-links Alternative SuggestedRemedy Change to: "This counter is increm transitions directly fror mpdo_timer_pri_done	nented when the PSE state diag POWER_ON_PRI to the state II being asserted.;" A to the Primary or Alternative B nented when the PSE state diag n the state POWER_ON_PRI to	DLE_PRI due to 3 to the Secondar gram (Figure 145- o the state IDLE_ transitions direct	15) transitions ry state diagram. 15 or Figure 145-16) PRI due to ly from the state	Is also It is und From ru This is Suggested/ Change "A read and 14 Make s	defined in 145 clear from this eading 33.2.6 I tricky because <i>Remedy</i> e to: d-only value that 5.2.7. Type 3 a same change in	2.7. text if this is the gather it was ir "requested Cla ti indicates the l and Type 4 devia 30.12.3.1.10	ntended as the r liss" is not a con PD Class of the ces use the PD	equested Class. cept known in C detected PD as	lause 33. specified in 33.2.6
aPSEMPSAbsentCour "This counter is increm directly from the state mpdo_timer_pri_done Hard-links Alternative SuggestedRemedy Change to: "This counter is increm transitions directly fror mpdo_timer_pri_done POWER_ON_SEC to	nented when the PSE state diag POWER_ON_PRI to the state II being asserted.;" A to the Primary or Alternative B nented when the PSE state diag m the state POWER_ON_PRI to being asserted if alt_pri='a', or,	DLE_PRI due to 3 to the Secondar gram (Figure 145- o the state IDLE_ transitions direct	15) transitions ry state diagram. 15 or Figure 145-16) PRI due to ly from the state	Is also It is und From re This is Suggested Change "A read and 14 Make s Response	defined in 145 clear from this eading 33.2.6 I tricky because <i>Remedy</i> e to: d-only value that 5.2.7. Type 3 a same change in	2.7. text if this is the gather it was ir "requested Cla ti indicates the l and Type 4 devia 30.12.3.1.10	ntended as the r liss" is not a con PD Class of the ces use the PD	equested Class. cept known in C detected PD as	lause 33. specified in 33.2.6

CI 30 SC 30.12.2.1.14 P 42 Yseboodt, Lennart Philips Lighting	L 30	# r01-75	<i>CI</i> 30 Yseboodt, I	SC 30.12.2 Lennart	1.18	P 43 Philips Lighting	L8	# r01-77
Comment Type T Comment Status A aLldpXdot3LocPowerType:: "The second bit indicates PSE or PD. A PSE shall set set this bit to indicate a PD."			it has c	the PSE alloc currently reque	ated power sted from the	e remote system."		Management compute the power that reeds. The quoted
Why do we have 'shalls' on PSEs and PDs in Clause 33/145 or Clause 79, not here. Clause 79 already has		be handled by Clause		ent is incorrec			·	
SuggestedRemedy			Suggested Strikes	Remedy sentence.				
Strike last two sentences in quoted text.			Response	Sentence.	Respons	se Status C		
Response Response Status C ACCEPT IN PRINCIPLE.			ACCEF	PT.				
Editor to remove all shalls on PSEs and PDs in clause	e 30.		<i>CI</i> 30 Yseboodt, I	SC 30.12.2 Lennart	1.18a	P 43 Philips Lighting	L 15	# r01-78
C/ 30 SC 30.12.2.1.17 P42 Yseboodt, Lennart Philips Lighting	L 43	# r01-76	Comment 7	51		ent Status A		Managemen
Comment Type E Comment Status A		E slitevial	pse_dll			eady_mode(X).		
"PD requested power value is the maximum input ave this power allocation if accepted." Missing determiner.	erage power the	<i>Editorial</i> PD ever draws under	Suggested Remov	Remedy	draft aLldpX	nd are no longer ne dot3LocReadyA an		ocReadyB (Clause 30,
"PD requested power value is the maximum input ave this power allocation if accepted." Missing determiner.	erage power the		Suggested Remov Clause Response	Remedy re in the entire 79, Clause 14	draft aLldpX 5).	-		ocReadyB (Clause 30,
"PD requested power value is the maximum input ave this power allocation if accepted." Missing determiner. SuggestedRemedy Replace by: "The PD requested power value is the maximum inpu		PD ever draws under	Suggested Remov Clause Response ACCEF	Remedy ve in the entire 79, Clause 14	draft aLldpX 5). <i>Respons</i>	dot3LocReadyA an	d aLldpXdot3Lo	
"PD requested power value is the maximum input ave this power allocation if accepted." Missing determiner. SuggestedRemedy Replace by:		PD ever draws under	Suggested Remov Clause Response	Remedy re in the entire 79, Clause 14 PT. SC 30.12.2	draft aLldpX 5). <i>Respons</i>	dot3LocReadyA an	d aLldpXdot3Ld	bcReadyB (Clause 30, # <u>r01-79</u>
"PD requested power value is the maximum input aver this power allocation if accepted." Missing determiner. SuggestedRemedy Replace by: "The PD requested power value is the maximum inpu under this power allocation if accepted."		PD ever draws under	Suggested Remov Clause Response ACCEF C/ 30 Yseboodt, I Comment 7 aLldpX It make	Remedy re in the entire 79, Clause 14 PT. SC 30.12.2 Lennart <i>Type</i> E dot3LocPDRe	draft aLldpX 5). <i>Respons</i> 1.18c <i>Comme</i> questedPowe to put these	dot3LocReadyA an se Status C P43 Philips Lighting ent Status A erValueA is 30.12.2 after 30.12.2.1.17	d aLldpXdot3Ld L 49	
"PD requested power value is the maximum input aver this power allocation if accepted." Missing determiner. SuggestedRemedy Replace by: "The PD requested power value is the maximum inpu under this power allocation if accepted." Response Response Status C		PD ever draws under	Suggested Remov Clause Response ACCEF C/ 30 Yseboodt, I Comment 7 aLldpX It make	Remedy re in the entire 79, Clause 14 PT. SC 30.12.2 Lennart Type E dot3LocPDRe as more sense dot3LocPDRe	draft aLldpX 5). <i>Respons</i> 1.18c <i>Comme</i> questedPowe to put these	dot3LocReadyA an se Status C P43 Philips Lighting ent Status A erValueA is 30.12.2 after 30.12.2.1.17	d aLldpXdot3Ld L 49	# [<u>r01-79</u>
"PD requested power value is the maximum input aver this power allocation if accepted." Missing determiner. SuggestedRemedy Replace by: "The PD requested power value is the maximum inpu under this power allocation if accepted." Response Response Status C		PD ever draws under	Suggested Remov Clause Response ACCEF Cl 30 Yseboodt, I Comment T aLldpX It make aLldpX Suggested Move 3 aLldpX aLldpX	Remedy re in the entire 79, Clause 14 PT. SC 30.12.2 Lennart Type E dot3LocPDRe as more sense dot3LocPDRe Remedy 30.12.2.1.18c a	draft aLldpX 5). <i>Respons</i> 1.18c <i>Comme</i> questedPowe to put these questedPowe to put these questedPowe questedPowe questedPowe	dot3LocReadyA and se Status C P43 Philips Lighting ent Status A erValueA is 30.12.2 after 30.12.2.1.17 erValue. pcPDRequestedPor erValueB to after 3 erValue.	d aLldpXdot3Ld L 49 2.1.18c. werValueA and	# [<u>r01-79</u> Editoria
"PD requested power value is the maximum input aver this power allocation if accepted." Missing determiner. SuggestedRemedy Replace by: "The PD requested power value is the maximum inpu under this power allocation if accepted." Response Response Status C		PD ever draws under	Suggested Remov Clause Response ACCEF Cl 30 Yseboodt, I Comment T aLldpX It make aLldpX Suggested Move 3 aLldpX aLldpX	Remedy re in the entire 79, Clause 14 PT. SC 30.12.2 Lennart Type E dot3LocPDRe as more sense dot3LocPDRe Remedy 30.12.2.1.18c a dot3LocPDRe dot3LocPDRe	draft aLldpX 5). <i>Respons</i> 1.18c Comme questedPowe to put these questedPowe clldpXdot3Lc questedPowe questedPowe questedPowe	dot3LocReadyA and se Status C P43 Philips Lighting ent Status A erValueA is 30.12.2 after 30.12.2.1.17 erValue. pcPDRequestedPor erValueB to after 3 erValue.	d aLldpXdot3Ld L 49 2.1.18c. werValueA and	# [<u>r01-79</u> Editoria

C/ 30 SC 30.12.2.1 P 44 L 42 # [r01-80] Yseboodt, Lennart Philips Lighting	C/ 30 SC 30.12.2.1.18h P 45 L 6 # [r01-83] Yseboodt, Lennart Philips Lighting
Comment Type T Comment Status A Management	Comment Type T Comment Status A Pres: Stewart3
There are no Clause 30 objects for 'PSE powering status' and 'PD powering status' as defined in Table 79-6c.	aLldpXdot3LocDualSigPowerClassExtModeA is missing an enumerated value to indicate 'single-signature'.
SuggestedRemedy	SuggestedRemedy
Editor to create objects with appropriate content.	Add value "singlesig :: Single-signature PD" to
Response Response Status C ACCEPT.	aLldpXdot3LocDualSigPowerClassExtModeA, aLldpXdot3LocDualSigPowerClassExtModeB and their remote counterparts.
	Response Response Status C
C/ 30 SC 30.12.2.1.18g P44 L44 # r01-81	ACCEPT IN PRINCIPLE.
/seboodt, Lennart Philips Lighting	adopt changes in http://www.ieee802.org/3/bt/public/nov17/stewart_03_1117_final.pdf
Comment Type E Comment Status A Editorial	
"APPROPRIATE SYNTAX: The same as used for aPSEPowerPairsExt"	This resolution is identical to comment #364.
Referenced object does not exist.	C/ 30 SC 30.12.2.1.18j P45 L37 # r01-84
	Yseboodt, Lennart Philips Lighting
SuggestedRemedy Copy APPROPRIATE SYNTAX from aPSEPowerPairs to here, however remove the line with "both" as this is not supported by Table 79-3a.	Comment Type E Comment Status A Editorial 30.12.2.1.18j aLldpXdot3LocPDLoad is at wrong location.
Response Response Status C ACCEPT IN PRINCIPLE.	SuggestedRemedy Move 30.12.2.1.18j aLldpXdot3LocPDLoad to just after aLldpXdot3LocPowerTypeExt.
Change to: The APPROPRIATE SYNTAX should be: An ENUMERATED VALUE that has one of the following entries:	Response Response Status C ACCEPT.
altA: Alternative A altB: Alternative B both: Both Alternatives	Cl 30 SC 30.12.2.1.18k P 45 L 48 # [r01-85] Yseboodt, Lennart Philips Lighting Philips Lighting Philips Lighting Philips Lighting
	Comment Type TR Comment Status A Pres: Stewart3
C/ 30 SC 30.12.2.1.18g P 44 L 51 # r01-82 / seboodt, Lennart Philips Lighting	Objects aLldpXdot3LocPowerClassExtA and aLldpXdot3LocPowerClassExtB seems to be junk-remnants there is no corresponding Clause 79 field.
Comment Type T Comment Status A Management	SuggestedRemedy
"For a PSE this attribute contains the value of the aPSEPowerPairsExt attribute (see 30.9.1.1.4), for a PD the contents of this attribute are undefined.;"	Delete aLldpXdot3LocPowerClassExtA, aLldpXdot3LocPowerClassExtB, aLldpXdot3RemPowerClassExtA, aLldpXdot3RemPowerClassExtA throughout the draft.
That should be the aPSEPowerPairs attribute.	Response Response Status C
uggestedRemedy	ACCEPT IN PRINCIPLE.
Change aPSEPowerPairsExt to aPSEPowerPairs	adopt changes in http://www.ieee802.org/3/bt/public/nov17/stewart_03_1117_final.pdf
Response Response Status C	
ACCEPT.	This resolution is identical to comment #364.
TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/	

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

aLldpXdot3LocPowerClassExt - The enumerated values only list PSE and PD when they should list the possible Classes. - The descriptive text is incomplete. SuggestedRemedy - Replace the ENUMERATED VALUEs by: * class 8 * class 7 * class 8 * class 7 * class 6 * class 3 * class 2 * class 2 * class 1 - Replace the "BEHAVIOUR DEFINED AS:" by: "For a Single-signature PD, a read-only value that indicates the requested Class during Physical Layer Classification (see 145.3.6). For a dual-signature PD, a read-only value set to 'dualsig'. - Change the "BEHAVIOUR DEFINED AS:" for - Change the "BEHAVIOUR DEFINED AS:" for		singlesigPD.	are confusing.	Editorial
- Change type - Replace the ENUMERATED VALUEs by: * dualsig :: Dual-signature PD * class 8 :: Class 8 * class 7 :: Class 7 * class 6 :: Class 6 * class 5 :: Class 5 * class 4 :: Class 4 * class 2 :: Class 3 * class 2 :: Class 1 - Replace the "BEHAVIOUR DEFINED AS:" by: "For a single-signature PD, a read-only value that indicates the requested Class during Physical Layer Classification (see 145.3.6). For a dual-signature PD, a read-only value set to 'dualsig'. For a PSE connected to a single-signature PD, a read-only value that indicates the currently assigned Class (see 145.2.7). For a PSE connected to a dual-signature PD, a read-only value set to 'dualsig'. - Change the "BEHAVIOUR DEFINED AS:" for aLldpXdot3LocDualSigPowerClassExtModeA and - Change to INT	dualPD to type3du			
* class3 :: Class 3 * class2 :: Class 2 * class1 :: Class 1 - Replace the "BEHAVIOUR DEFINED AS:" by: "For a single-signature PD, a read-only value that indicates the requested Class during Physical Layer Classification (see 145.3.6). For a dual-signature PD, a read-only value set to 'dualsig'. For a PSE connected to a single-signature PD, a read-only value that indicates the currently assigned Class (see 145.2.7). For a PSE connected to a dual-signature PD, a read-only value set to 'dualsig'." - Change the "BEHAVIOUR DEFINED AS:" for aLldpXdot3LocDualSigPowerClassExtModeA and Cl 30 SC 3 Yseboodt, Lennart Comment Type aLldpXdot3Loc	s for the remote. Respons			
 Replace the "BEHAVIOUR DEFINED AS:" by: "For a single-signature PD, a read-only value that indicates the requested Class during Physical Layer Classification (see 145.3.6). For a dual-signature PD, a read-only value set to 'dualsig'. For a PSE connected to a single-signature PD, a read-only value that indicates the currently assigned Class (see 145.2.7). For a PSE connected to a dual-signature PD, a read-only value set to 'dualsig'. Change to 'dualsig'. Change the "BEHAVIOUR DEFINED AS:" for aLldpXdot3LocDualSigPowerClassExtModeA and 	.12.2.1.18t	P 47 Philips Lighting	L 51	# r01-88
	PowerDownReque GER. Also chang <i>Respon</i> t	ge the remote. Ise Status C	≩ of size 6, but it	<i>Management</i> is used as a numeric
Response Response Status C Also, ACCEPT IN PRINCIPLE. Change descr "A SET attribu adopt changes in http://www.ieee802.org/3/bt/public/nov17/stewart_03_1117_final.pdf "A set attribu		e local PD system is	s requesting a po	ower down when the

C/ 30 SC 30.12.2.1 P 49 L 29 # [r01-89] Yseboodt, Lennart Philips Lighting	C/ 30 SC 30.12.3.1.14 P 53 L 25 # [r01-91] Yseboodt, Lennart Philips Lighting
Comment TypeERComment StatusAEditorialSubclause numbering after 30.12.2.1.18ab has gone wrong.	Comment Type T Comment Status A Management This subclause is not in the draft (ergo, unmodified). Changes have been made to the 'local' version that need to be mirrored here. Management
SuggestedRemedy Use proper subclause numbering. [] Recheck this comment after implementing all Clause 30 changes. Response Response Status C ACCEPT.	SuggestedRemedy Note: Existing text, **added text**, and XXremoved textXX. - Bring 30.12.3.1.14 into the draft - Change as BEHAVIOUR as follows: A GET attribute that returns a bit string indicating whether the remote system is a
C/ 30 SC 30.12.2.1.18ab15 P 52 L 9 # [r01-90] //seboodt, Lennart Philips Lighting	PSE or a PD and whether it is Type 1 or XXType 2XX **greater than Type 1**. The first bit indicates Type 1 or XXType 2XX **greater than Type 1**. The second bit indicates PSE or PD. **See also aLldpXdot3RemPowerTypeExt**;
Comment Type T Comment Status A Management aLldpXdot3LocPSEPowerPriceIndex:: "A GET attribute that returns an index of the price of power.;"	Response Response Status C ACCEPT. C/ 30 SC 30.12.3.1.18 P 53 L 38 # [r01-92]
Very terse, does not explain this is a PSE value only.	Yseboodt, Lennart Philips Lighting
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.;"	Comment Type T Comment Status A Management The definition of aLldpXdot3RemPSEAllocatedPowerValue (currently not in the draft) no longer matches with changes made to the local variant. SuggestedRemedy
Add same last sentence to the remote variant.	Bring 30.12.3.1.18 into the draft and change BEHAVIOUR follows:
Response Response Status C ACCEPT.	A GET attribute that returns the PSE allocated power value received from the remote system. For a PSE, it is the PSE allocated power value that XXwas used by the remote system to compute the power value that it has currently requested from the PSEXX **was mirrored back by the remote PD**. For a PD, it is the PSE allocated power value received from the remote system. The definition and encoding of PSE allocated power value is the same as described in aLldpXdot3LocPSEAllocatedPowerValueA and

Make similar change to aLldpXdot3RemPSEAllocatedPowerValueA and aLldpXdot3RemPSEAllocatedPowerValueB. Response Status C

Response

ACCEPT.

C/ 30 SC 30.12.3.1.18e Yseboodt, Lennart	P 54 Philips Lighting	L 50	# r01-93	C/ 30 Yseboodt,	SC 30.12.3.	1.18k	P 56 Philips Lightir	L 17	# r01-94
			Management	,		Commen		ig	Pros. Stowart?
Comment Type T Co "For a PSE this attribute cont 30.9.1.1.3), for a PD the cont 1. aPSEPowerPairsExt shoul 2. Wrong reference SuggestedRemedy - Replace aPSEPowerPairsE - Change 30.9.1.1.3 to 30.9.1	mment Status A ains the value of the aP ents of this attribute are d be aPSEPowerPairs xt with aPSEPowerPairs	SEPowerPairsl undefined.;"	<i>Management</i> Ext attribute (see	Comment aLldpX - The c Classe - The c Suggested - Repla * dual * class * class	Type T (dot3RemPowe enumerated values. descriptive text <i>Remedy</i> ace the ENUME sig :: Dual-sig s8 :: Class 8 s7 :: Class 7 s6 :: Class 6 s5 :: Class 5 s4 :: Class 5 s4 :: Class 3 s2 :: Class 1 - Replace th "For a singled class by the g' by the remot. For a PSE of quested Class of the class of the termot. The	he "BEHAVIOI e-signature PD e-signature PE e-signature PSE. e PSE. connected to a during Physica	t Status A SE and PD wh JEs by: UR DEFINED A D, a read-only va For a dual-sign a single-signatur I Layer classifica	S:" by: alue that indicate ature PD, a read- ation (see 145.2.	
				aLldpX Response	dot3RemDual	SigPowerClass SigPowerClass <i>Response</i>	JR DEFINED AS SExtModeA and SExtModeB to for Status C	S:" for Illow the style abo	ove.
				adopt	changes in http	://www.ieee80	2.org/3/bt/public	c/nov17/stewart_	03_1117_final.pdf
				This re	solution is ider	tical to comm	opt #261		

C/ 33 SC 33.4.9.3. Yseboodt, Lennart	2 P72 Philips Lighting	L 54	# r01-95	CI 33 SC 33. Yseboodt, Lennart	6.3.3	P 73 Philips Lighti	L 19	# r01-97
							ing	
devices shall meet the For 5GBASE-T capabl values determined by For 10GBASE-T capab	to Table 33-20c. (3x) <i>Response Status</i> C	3-20b from 1 M r Midspan PSE i0 MHz. or Midspan PS	Hz to 100 MHz. devices shall meet the	PSE allocated po By mistake, in Cl The value of zero In 802.3bt we are signature power However that, in value for legacy of Since this is und The proposed so In summary, we identical permitte	Clause 79, the ower value field ause 33 the pe o is undefined i e changing Cla negotiation. combination w devices. efined, we mus lution is to rest are moving a re d value range	s ranged 1 to 255. rmitted range starte n DLL. use 79 to permit val ith the current value t prevent this. rict the value range	ed at zero. ue zero, this is re ranges in 33.6.3 in 33.6.3.3.	DLL quested power and quired to support dual- .3 makes zero a legal the net result is an
The table will become	equation 33-19b by comment 3	324. Change r	eference accordingly.	SuggestedRemedy				
Cl 33 SC 33.4.9.3. Yseboodt, Lennart Comment Type E "from 1 MHz to 500 Mł Missing space.	Philips Lighting Comment Status A	L3	# r01-96 Editorial	"Values:0 throug - MirroredPDReq - MirroredPSEAI - PDRequestedP	h 255 [°] to "Valu uestedPowerV ocatedPowerV owerValueEch owerValue (he owerValue	alue o re change to "0 thro	or the following:	K_VALUE")
SuggestedRemedy Add space.				Response ACCEPT.	Respo	onse Status C		
Response ACCEPT.	Response Status C							

Cl 79 SC Yseboodt, Lenn	C 79.3.2 art	P 80 Philips Lighting	L14	# r01-98	<i>Cl</i> 79 Yseboodt,		9.3.2.1	P 81 Philips Lighting	L 6	# r01-101
Comment Type		Comment Status A	9	Editorial	Comment		Е	Comment Status A		Editorial
"Power entit	ties may conti	nue to use the Power Via Nawing power to/from the Po		ields shown in Figure	Table	79-3 "MI	DI power	capabilities/status" does matc r support".	h with Figure	
This is the f	irst mention of	f PI in Clause 79. Refer to	Apfinitions		Suggested	dRemedy	/			
SuggestedRem			deminions.		Chang	ge Table	title to "N	IDI power support field".		
Change to: "Power entit 79-3 prior to	ties may conti	nue to use the Power Via N awing power to/from the Po			Response ACCE	PT.		Response Status C		
1.4.337."		_			CI 79		9.3.2.1	P81	L8	# r01-102
Response		Response Status C			Yseboodt,			Philips Lighting		
ACCEPT.					Comment	•••	E	Comment Status A		Editorial
CI 79 SC	C 79.3.2	P 80	L 36	# r01-99		,		v other Table in Clause 79, list les not end in 'field'.	s the bits star	ting with the LSB.
Yseboodt, Lenn	art	Philips Lighting	g		Suggested					
Comment Type	ER	Comment Status A		Editorial		-		ne rows in Table 79-3		
		ver down" field.					to Table			
Field name	is different all	over Clause 79.			Response			Response Status C		
Replace all	by "Power do	wn"			ACCE	PT.				
SuggestedRem	edy				C/ 79	SC 7	9.3.2.3	P82	L 32	# -04 400
- page 89, li	ine 41: Chang	e subclause title to "Power	down"		Yseboodt,			Philips Lighting	L 32	# r01-103
		e "request power down" to		equest"						F alitania
10		79-6g title => "Power down	tield."		Comment		E Soo' field	Comment Status A transmitted by a PSE shall co	atala an intan	Editorial
Response ACCEPT.		Response Status C			Table same	79-3b ba	ased on a this field.	PSEPowerClassification. Class Class 5 and above is commu	s 4 and abov	e is indicated with the
C/ 79 SC	C 79.3.2.1	P 81	L 1	# r01-100		alize field				
Yseboodt, Lenn	art	Philips Lighting	g		Suggested	Remedy	/			
Eg. The 'Po	nsistently put ort class' field.	Comment Status A single quotes around field r	names.	Editorial	"The 'I Table same	Power cl 79-3b ba	ass' field ased on a this field.	transmitted by a PSE shall co PSEPowerClassification. Clas Class 5 and above is commu	s 4 and abov	e is indicated with the
SuggestedRem	•	Clause 70			Response			Response Status C		
•	ent throughout				ACCE					
Response ACCEPT.		Response Status C			-					

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

IEEE P802.3bt D3.1 4-Pair PoE 1st Spor	onsor recirculation ballot comments
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C/ 79 SC 79.3.2							
0.13 00 13.3.4	2.4 P83	L 3	# r01-104	C/ 79 SC 79.3.2	6c P 85	L 44	# r01-107
'seboodt, Lennart	Philips Lightin	ıg		Yseboodt, Lennart	Philips Lightir	ng	
Comment Type E	Comment Status A		Editorial	Comment Type E	Comment Status A		Editoria
priority defined in T	burce/priority field shall contain a able 79-4 and is reported for the dname and capitalize first letter o	device generating			field shall contain the PSE's bit- ined in Table 79-6c, and is repor e.		
SuggestedRemedy				SuggestedRemedy			
	ource/priority' field shall contain a a fable 79-4 and is reported for the				field shall contain the PSE's bit-		
Response	Response Status C			•	ined in Table 79-6c, and is repor	ted for the devic	e generating the TLV.
ACCEPT.				Response	Response Status C		
C/ 79 SC 79.3.2	2.4 <i>P</i> 83	L 12	# r01-105	ACCEPT.			
Yseboodt, Lennart	Philips Lightin		101-105	C/ 79 SC 79.3.2	6c.1 P86	L 13	# r01-108
Comment Type E	Comment Status A	0	Editorial	Yseboodt, Lennart	Philips Lightin	ng	
	Function" should all start with a c	capital letter.	Lakohai	Comment Type E	Comment Status A 12 "powered single-signature PE	"	Editoria
SuggestedRemedy						,	
Change names by	capitalize first letter and update u	usage in Clause 7	9.	SuggestedRemedy Capitalize.			
Response	Response Status C			·	_		
ACCEDE				Response	Response Status C		
ACCEPT.				ACCEDT			
	2 61 P 85	/ 1	# r01-106	ACCEPT.			
CI 79 SC 79.3.2	2.61 P85 Philips Lightin	L 1	# <u>r01-106</u>	ACCEPT.			
C/ 79 SC 79.3.2 Yseboodt, Lennart	Philips Lightin	-		ACCEPT.			
Cl 79 SC 79.3.2 Yseboodt, Lennart Comment Type E	Philips Lightin Comment Status A requested power value for Mode A	ng	Editorial	ACCEPT.			
Cl 79 SC 79.3.2 Yseboodt, Lennart Comment Type E "Table 79-6aPD re Figure 79-3. Strike	Philips Lightin Comment Status A requested power value for Mode A	ng	Editorial	ACCEPT.			
Cl 79 SC 79.3.2 Yseboodt, Lennart Comment Type E "Table 79-6aPD ru Figure 79-3. Strike SuggestedRemedy	Philips Lightin Comment Status A equested power value for Mode / 'for'. 79-6aPD requested power value	ng A field" does not r	Editorial	ACCEPT.			
Cl 79 SC 79.3.2 Yseboodt, Lennart Comment Type E "Table 79-6aPD ru Figure 79-3. Strike SuggestedRemedy Change to "Table 7	Philips Lightin Comment Status A equested power value for Mode / 'for'. 79-6aPD requested power value	ng A field" does not r	Editorial	ACCEPT.			

C/ 79 SC 79.3.2.6c.1 Yseboodt, Lennart	P 86 Philips Lightin	L 50	# r01-109	C/ 79 Yseboodt,	SC 79.3.2.6	c.4	P 87 Philips Lightin	L 19	# r01-111
Comment Type TR Table 79-6c, Power state	Comment Status A is field, item 'Power Class e	ext' contains a va	LLDP alue for Class 0.	Comment	Type TR		Status A	•	LLD
SuggestedRemedy Replace by "0 0 0 0 = Re Response ACCEPT IN PRINCIPLE Replace by "0 0 0 0 = Re On page 87, line 34 char "When the 'power type e Type 1 and Type 2 PD th Class of the PD during P to "When the power type is	Response Status C	a single-signature all be set to the as defined in 1- Id' shall be set to	requested 45.3.6." o the	There field ? This al <i>Suggested</i> "PSEs mode, - Do th <i>Response</i> ACCEI	s also the open so should be a <i>Remedy</i> connected to a shall set this fie e same for 79.3 PT IN PRINCIP	i issue of Type requirement. single-signatu ld to value 7." 3.2.6c.5 <i>Response</i> LE.	ure PD, or Type : Status C	e 2P only how	ass <= 4). v are they to set this erate only in 2-pair nly in 2-pair mode,
field shall be set to the re the dual-signature PD fo When the 'power type ex signature PD, the 'dual-s	Philips Lightin Comment Status A xt' field indicates a PD the ' equested Class of Mode A during Physical Li t' field indicates a PSE and ignature power Class ext M assigned Class for Alternat	dual-signature p ayer Classificatio the PSE is com lode A' field	on as defined in 145.3.6. nected to a dual-		et this field to va				
Change to: "When the 'Power Type A' field shall be set to the the dual-signature PD fo When the 'Power Type e signature PD, the 'Dual-s	ext' field indicates a PD the requested Class of Mode A during Physical Li xt' field indicates a PSE an ignature power Class ext M assigned Class for Alternat	ayer Classification d the PSE is cor Node A' field	on as defined in 145.3.6. Inected to a dual-						
Response ACCEPT.	Response Status C								

CI 79 SC 79.3.2	.6c.5	P 87	L 24	# r01-112	CI 79	SC 79.3.2.6		P 87	L 33	# r01-113
Yseboodt, Lennart		Philips Lighti	ng		Yseboodt,	Lennart		Philips Lighti	ng	
Comment Type E	Commei	nt Status A		Editorial	Comment	Туре Е	Comment S	Status A		Editorial
"When the 'power t field shall be set to of the dual-signatuu 145.3.6. When the 'power ty signature PD, the 'o shall be set to the f Field names should SuggestedRemedy Change to:	ype ext' field ind the requested (e PD for Mode pe ext' field ind ual-signature p SEs assigned start with capit Type ext' field ind to the requeste e PD for Mode ype ext' field ind	dicates a PD the Class B during Physica ciates a PSE and ower Class ext I Class for Alterna tal first letter. dicates a PD the d Class B during Physica dciates a PSE ar	al Layer Classific d the PSE is con Mode B' field ative B as defined e 'Dual-signature al Layer Classific and the PSE is con	ower Class ext Mode B' ation as defined in nected to a dual- d in 145.2.7." power Class ext Mode ation as defined in	"Wher Type 2 'power Classi define the PS Class PDs s Class Mode and 'p Field r Suggested Chang "Wher	The 'power type 2 PD the r Class ext' field fication as d in 145.3.6. WI Es assigned as defined in 14 et the 'power ext' field to the A' field ower Class ext in names should st <i>Remedy</i> ge to:	e ext' field indica shall be set to t hen the power ty 15.2.7. PSEs con power class indi Mode B' field." tart with capital f	ites a PD for a he requested rpe is PSE, th nnected to a c cated by the t irst letter.	Class of the PD e 'power Class e dual-signature PE otal power indica	Editorial PD or Type 1 and during Physical Layer xt' field shall be set to and dual-signature ted by 'power Class ext
shall be set to the l				in 145.2.7."	'Powe	r Class ext' field	shall be set to t	he requested	Class of the PD	during Physical Layer
Response ACCEPT.	Response	e Status C			define the PS Class PDs s Class ext Mo	SEs assigned as defined in 14 et the 'Power	15.2.7. PSEs con power class indi	nnected to a c	dual-signature PD	ext' field shall be set to and dual-signature ted by 'Power Class
					Response		Response S	tatus C		
					ACCE	PT.				

CI 79 SC	79.3.2.6d	P 87	L 33	# r01-114	CI 79	SC	79.3.2.6	1.2	P 87	L 50	# r01-116
Yseboodt, Lenna	art	Philips Lightin	ng		Yseboodt	, Lennar	ť		Philips Light	ting	
Comment Type	Е	Comment Status A		Editorial	Comment	t Type	TR	Comm	ent Status A		LLDP
and PD Load defined in Ta 'system setu	d able 79-6d a ıp'	shall contain the device bit nd is reported for the device E is undefined."			field, Also t Note	but faile the text i that we	d to mov in that su no longe	e the descr bclause ne	riptive subclause eeds to be update hall' for Type 3/4 I	with it. d.	wer type/source/priority at is now handled by the
Field names	should star	with capital first letter.			Suggeste			e ulagram.	3.		
and PD Load	n setup' fielo d able 79-6d a	I shall contain the device binned is reported for the device	·		- Dele - Add This f the P	ete subc new sul field sha D suppo	lause 79. bclause t Il be set a ort poweri	under 79.3. according t ng of both	2.4 title "PD 4PIC o Table 79-4 whe Modes simultane the power type is	en the power type cously.	is PD to indicate wether
		E is undefined."			Response		1 00 300		nse Status C	TOL.	
Response ACCEPT.		Response Status C			ACCE	EPT IN F	PRINCIP	LE.			
C/ 79 SC Yseboodt, Lenna	79.3.2.6d	P 87 Philips Lightir	L 33 ng	# r01-115	- Add	new su		under 79.3.	2.4 title "PD 4PID		is PD to indicate
		Comment Status A '0' when the power type is		Editorial shall be set to	wheth	ner the F	D suppo	rt powering	g of both Modes s the power type is	imultaneously.	
'1' when the	'power type	ext' is Type 3 PD or Type 4	PD."		CI 79	SC	79.3.2.6	ł	P 88	L1	# r01-117
Field names	should star	with capital first letter.			Yseboodt	, Lennar	t		Philips Light	ting	
SuggestedReme	edy				Comment	t Type	Е	Comm	ent Status A		Editorial
		'0' when the power type is e ext' is Type 3 PD or Type		shall be set to	Suggeste	dRemed	ły	·		consistent with the	e rest of the draft.
Response		Response Status C					to "Powe	er Type ext			
ACCEPT.					Response ACCE	e		Respon	nse Status C		

CI 79 SC 79.3 Yseboodt, Lennart		8 s Lighting	L 1	# r01-118	<i>Cl</i> 79 Yseboodt, L	SC 79.3	3.2.6f.2		P 89 Philips Lightin	L 30	# r01-120
Comment Type T		0 0		LLDP	Comment T			Comment S		y	Editoria
In Table 79-6d the This still includes are barred from s SuggestedRemedy - Reduce field to 3 111 Reserved / log 110 Type 4 dual-s 011 Type 4 single 011 Type 3 single 001 Type 3 Single 001 Type 3 PSE	e Power Type ext field de entries for Type 1 / Type sending the T3/4 extension 3 bits with following conte gnore signature PD e-signature PD e-signature PD e-signature PD	scribes the ⁻ 2, which no fields. ht:	longer make	PSE or PD. Se sense given that they	"When t the Auto This hay request" When th Field na SuggestedF Change "When t the Auto This hay request"	the power boclass me opens afte field defi me power to mes shou <i>Remedy</i> to: the Power boclass me opens afte field defi	type is I asureme er a requined in T type is P uld start Type is asureme er a requined in T	ent. lest for Autor able 79-6f. 2D this field s with capital f PSE this fie ent. lest for Autor able 79-6f.	class is made shall be set to (irst letter. Id shall be set class is made	by the PD using 0." to indicate that by the PD using	the PSE has concluded g the "Autoclass the PSE has concluded g the "Autoclass
- Update Clause 3	ved bit on bit position 1 to 30 enumeration to match			,	Response ACCEP			Response S	shall be set to <i>tatus</i> C		
Response ACCEPT.	Response Status	С			CI 79	SC 79.3	3.2.6f.2		P 89	L 30	# r01-121
ACCEPT.			L 25	# r01-119			3.2.6f.2		P 89 Philips Lightin		# <u>r01-121</u>
	3.2.6f.1 Pa		L 25	# r01-119	Cl 79 Yseboodt, L Comment T	ennart ype E		Comment S	Philips Lightin	g	Editoria
ACCEPT. Cl 79 SC 79.3 (seboodt, Lennart Comment Type E "When the power Autoclass over D	3.2.6f.1 P a Philip <i>Comment Status</i> r type is PSE this field sha	9 s Lighting A Il be set to i	indicate if the	<i>Editorial</i> PSE supports	C/ 79 Yseboodt, L Comment T "The 're longer r Incorrect SuggestedF	ennart ype E quest pow equires po ct field nar Remedy	ver dowr ower fror	Comment S	Philips Lightin	g	
ACCEPT. Cl 79 SC 79.3 Yseboodt, Lennart Comment Type E "When the power Autoclass over DI according to Tabl	3.2.6f.1 Pa Philip <i>Comment Status</i> type is PSE this field sha LL	9 os Lighting A Il be set to i type is PD t	indicate if the	<i>Editorial</i> PSE supports	CI 79 Yseboodt, L Comment T "The 're longer r Incorrec SuggestedF Change "The 'Po	ennart ype E quest pow equires pow equires pow tield nar Remedy to: power dowr	ver dowr ower fror ne n reques	Comment S ' field shall t n the PI." t' field shall I	Philips Lightin Status A be set as defin	g ed in Table 79-	Editoria
ACCEPT. Cl 79 SC 79.3 (seboodt, Lennart Comment Type E "When the power Autoclass over DI according to Tabl Field names show	3.2.6f.1 Pa Philip <i>Comment Status</i> type is PSE this field sha LL le 79-6f. When the power	9 os Lighting A Il be set to i type is PD t	indicate if the	<i>Editorial</i> PSE supports	C/ 79 Yseboodt, L Comment T "The 're longer r Incorrec SuggestedF Change "The 'Po longer r	ennart ype E quest pow equires pow equires pow tield nar Remedy to: power dowr	ver dowr ower fror ne n reques ower fror	Comment S n' field shall t m the PI." t' field shall I m the PI."	Philips Lightin Status A be set as defin	g ed in Table 79-	<i>Editoria</i> 6g. by a PD that no
ACCEPT. Cl 79 SC 79.3 Yseboodt, Lennart Comment Type E "When the power Autoclass over DI according to Tabl Field names show SuggestedRemedy Change to: "When the Power Autoclass over DI	3.2.6f.1 Pa Philip Comment Status type is PSE this field sha LL le 79-6f. When the power uld start with capital first le r Type is PSE this field sh	9 Is Lighting A Il be set to i type is PD t tter.	indicate if the his field shal	Editorial PSE supports I be set to 0." e PSE supports	CI 79 Yseboodt, L Comment T "The 're longer r Incorrec SuggestedF Change "The 'Po	ennart ype E quest pow equires po et field nar <i>Remedy</i> to: bower dowr equires po	ver dowr ower fror ne n reques ower fror	Comment S ' field shall t n the PI." t' field shall I	Philips Lightin Status A be set as defin	g ed in Table 79-	<i>Editoria</i> 6g. by a PD that no
ACCEPT. Cl 79 SC 79.3 Yseboodt, Lennart Comment Type E "When the power Autoclass over DI according to Tabl Field names show SuggestedRemedy Change to: "When the Power Autoclass over DI	3.2.6f.1 Pa Philip <i>Comment Status</i> type is PSE this field sha LL le 79-6f. When the power uld start with capital first le r Type is PSE this field sh LL	9 Is Lighting A Il be set to i type is PD t tter. all be set to Type is PD	indicate if the his field shal	Editorial PSE supports I be set to 0." e PSE supports	Cl 79 Yseboodt, L Comment T "The 're longer m Incorred SuggestedR Change "The 'Po longer m Response	ennart ype E quest pow equires po et field nar <i>Remedy</i> to: bower dowr equires po	ver dowr ower fror ne n reques ower fror	Comment S n' field shall t m the PI." t' field shall I m the PI."	Philips Lightin Status A be set as defin	g ed in Table 79-	<i>Editoria</i> 6g. by a PD that no

C/ 79 SC 79.3.8.1 P92 C/ 79 SC 79.4.2 P95 L13 # r01-124 L 26 # r01-122 Yseboodt, Lennart Philips Lighting Philips Lighting Yseboodt, Lennart Comment Type T Comment Status A **F**ditorial Comment Type E Comment Status A **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" Response Response Status C Response Response Status C ACCEPT. ACCEPT. C/ 79 SC 79.3.8.2 # r01-123 P92 L 33 C/ 145 SC 145 P103 L1 # r01-125 Yseboodt. Lennart Philips Lighting Yseboodt, Lennart Philips Lighting Comment Type TR Comment Status A Pres: Yseboodt1 Comment Type E Comment Status A Editorial "The PSE power price index field shall contain a linear index of the current value of We have inconsistent capitalization for "Physical Layer [C/c]lassification". electricity within the PSE. This is a 15 bit unsigned integer in the range 0 through 32767, as defined in Table 79-7d. The PSE shall set the value of this field taking the availability of For 802.3-2015 SECTION2 power from any external and internal resources, and the relative supply and demand without capital c: 3 occurances balance, into account. A value of zero means that no power price index is available. The with capitcal C: 47 occurences meaning of this field is implementation dependent." In our draft: Contradicts itself: it needs to be both a linear index, but it's also implementation dependent. without capital c: 14 occurances with capitcal C: 47 occurences As currently specified this isn't terribly useful. We should come up with a specification. SuggestedRemedy SuggestedRemedy - Replace throughout the draft "Physical Layer Classification" with "Physical Layer Adopt yseboodt_01_1117_powerpriceindex.pdf classification". Response Response Status C - Decapitalize "Classification" whereever it should not be capitalized (whole draft) ACCEPT IN PRINCIPLE. Response Response Status C ACCEPT. Adopt changes shown in http://www.jeee802.org/3/bt/public/nov17/vseboodt 01 1117 final.pdf

C/ 145 SC 145.1 Yseboodt, Lennart	P103 Philips Ligh	L 9 nting	# r01-126	C/ 145 Yseboodt, L	SC 145.1 _ennart		1 03 ps Lighting	L 24	# r01-129
Comment Type ER	Comment Status A		Editorial	Comment T	Гуре Е	Comment Status	5 A		Editorial
enhancement of the	the functional and electrical Power over Ethernet (PoE) s	system defined in	Ċlause 33."	used fo	r data transmi		·	using the sam	e generic cabling as is
	was lost due to adopting The Clause 145 is an 'add-on' to (use.			SuggestedF Change	e to:				
SuggestedRemedy					over Ethernet sed for data tra		oply/use po	ower using the	same generic cabling
	taken from response in i-43):		a set a set Davage	Response		Response Status	C		
	the functional and electrical system. The original PoE sy			ACCEP	РТ.	,			
Response ACCEPT.	Response Status C			C/ 145 Yseboodt, L	SC 145.1 _ennart		103 ps Lighting	L 32	# r01-130
C/ 145 SC 145.1	P103	L 16	# r01-127	Comment T	Гуре Е	Comment Status	5 A		Editorial
Yseboodt, Lennart	Philips Ligh	nting				is intended to provide			-TX, 1000BASE-T, ing interface for both the
									ing interface for both the
Comment Type E	Comment Status A		Editorial					Ta single cabi	
Comment Type E	Comment Status A of the system is defined as t	he Link Section."	Editorial	data an	id power."			Ta single cabi	
Comment Type E "The cabling portion	of the system is defined as t	he Link Section."	Editorial	data an Strike 't	id power." the' before data			r a single cabi	
Comment Type E "The cabling portion No need for capitals	of the system is defined as t	he Link Section."	Editorial	data an Strike 't <i>SuggestedF</i>	nd power." the' before data R <i>emedy</i>	a.		Ta single cabi	
Comment Type E "The cabling portion	of the system is defined as t	he Link Section."	Editorial	data an Strike 't <i>SuggestedF</i> Strike 't	id power." the' before data	a. a.			
Comment Type E "The cabling portion No need for capitals SuggestedRemedy Decapitalize.	of the system is defined as t in Link Section.	he Link Section."	Editorial	data an Strike 't SuggestedF Strike 't Response	nd power." the' before data R <i>emedy</i> the' before data	a.		r a single cabi	
Comment Type E "The cabling portion No need for capitals SuggestedRemedy	of the system is defined as t	he Link Section."	Editorial	data an Strike 't <i>SuggestedF</i> Strike 't	nd power." the' before data R <i>emedy</i> the' before data	a. a.		r a single cabi	
Comment Type E "The cabling portion No need for capitals SuggestedRemedy Decapitalize. Response ACCEPT.	of the system is defined as t in Link Section. <i>Response Status</i> C			data an Strike 't SuggestedF Strike 't Response ACCEP C/ 145	the before data Remedy the before data PT. SC 145.1.3	a. a. Response Status P [.]	÷ C 105	L 31	# [<u>r01-131</u>
Comment Type E "The cabling portion No need for capitals SuggestedRemedy Decapitalize. Response ACCEPT. Cl 145 SC 145.1	of the system is defined as t in Link Section. <i>Response Status</i> C <i>P</i> 103	L 22	Editorial # <u>r01-128</u>	data an Strike 't SuggestedF Strike 't Response ACCEP	the before data Remedy the before data PT. SC 145.1.3	a. Response Status Phili	C 105 ps Lighting	L 31	
Comment Type E "The cabling portion No need for capitals SuggestedRemedy Decapitalize. Response ACCEPT. Cl 145 SC 145.1 Yseboodt, Lennart	of the system is defined as t in Link Section. <i>Response Status</i> C <i>P</i> 103 Philips Ligh	L 22	# <u>r01-128</u>	data an Strike 't Suggestedf Strike 't Response ACCEP CI 145 Yseboodt, L Comment T	the' before data Remedy the' before data PT. SC 145.1.3 Lennart Type E	a. Response Status P Phili Comment Status	C 105 ps Lighting	L 31	# <u>r01-131</u> Editorial
Comment Type E "The cabling portion No need for capitals SuggestedRemedy Decapitalize. Response ACCEPT. C/ 145 SC 145.1 Yseboodt, Lennart Comment Type E	of the system is defined as t in Link Section. <i>Response Status</i> C <i>P</i> 103 Philips Ligt <i>Comment Status</i> A efined Clause 14 and the PH	L 22 nting	# <u>r01-128</u> Editorial	data an Strike 't Suggestedf Strike 't Response ACCEP C/ 145 Yseboodt, L Comment T Table 1 from the	ad power." the' before data Remedy the' before data PT. SC 145.1.3 Lennart Type E 45-1 lists the s e PSE Type a	a. Response Status P Phili Comment Status	C 105 ps Lighting s R The Nomina vered pairs.	L 31 al highest curre	# r01-131
Comment Type E "The cabling portion No need for capitals SuggestedRemedy Decapitalize. Response ACCEPT. CI 145 SC 145.1 Yseboodt, Lennart Comment Type E "Those MAUs are de Clause 55, and Clau	of the system is defined as t in Link Section. <i>Response Status</i> C <i>P</i> 103 Philips Ligt <i>Comment Status</i> A efined Clause 14 and the PH	L 22 nting	# <u>r01-128</u> Editorial	data an Strike 't Suggestedf Strike 't Response ACCEP C/ 145 Yseboodt, L Comment T Table 1 from the	ad power." the' before data Remedy the' before data PT. SC 145.1.3 Lennart <i>Type</i> E 45-1 lists the s e PSE Type ar h, it would make	a. <i>Response Status</i> <i>P</i> hili <i>Comment Status</i> system parameters. T nd the number of pow	C 105 ps Lighting s R The Nomina vered pairs.	L 31 al highest curre	# <u>r01-131</u> Editorial
Comment Type E "The cabling portion No need for capitals SuggestedRemedy Decapitalize. Response ACCEPT. C/ 145 SC 145.1 Yseboodt, Lennart Comment Type E "Those MAUs are de Clause 55, and Clau Not English.	of the system is defined as t in Link Section. <i>Response Status</i> C <i>P</i> 103 Philips Ligt <i>Comment Status</i> A efined Clause 14 and the PH	L 22 nting	# <u>r01-128</u> Editorial	data an Strike 't SuggestedF Strike 't Response ACCEP Cl 145 Yseboodt, L Comment 7 Table 1 from the As such SuggestedF	ad power." the' before data Remedy the' before data PT. SC 145.1.3 Lennart Type E 45-1 lists the s e PSE Type ar h, it would mak Remedy	a. <i>Response Status</i> <i>Prilip</i> <i>Comment Status</i> system parameters. T nd the number of pow	C 105 ps Lighting s R The Nomina vered pairs. order of the	L 31 al highest curre	# <u>r01-131</u> Editorial
Comment Type E "The cabling portion No need for capitals SuggestedRemedy Decapitalize. Response ACCEPT. CI 145 SC 145.1 Yseboodt, Lennart Comment Type E "Those MAUs are de Clause 55, and Claus Not English. SuggestedRemedy	of the system is defined as t in Link Section. <i>Response Status</i> C <i>P</i> 103 Philips Ligt <i>Comment Status</i> A efined Clause 14 and the PH	L 22 nting	# <u>r01-128</u> Editorial	data an Strike 't SuggestedF Strike 't Response ACCEP Cl 145 Yseboodt, L Comment 7 Table 1 from the As such SuggestedF	ad power." the' before data Remedy the' before data PT. SC 145.1.3 Lennart Type E 45-1 lists the s e PSE Type ar h, it would mak Remedy	a. <i>Response Status</i> <i>P</i> Phili <i>Comment Status</i> system parameters. T nd the number of pow se sense to swap the	C 105 ps Lighting s R The Nomina vered pairs. order of the 145-1.	L 31 al highest curre	# <u>r01-131</u> Editorial
Comment Type E "The cabling portion No need for capitals SuggestedRemedy Decapitalize. Response ACCEPT. CI 145 SC 145.1 Yseboodt, Lennart Comment Type E "Those MAUs are de Clause 55, and Clau Not English. SuggestedRemedy Change as follows:	of the system is defined as t in Link Section. <i>Response Status</i> C <i>P</i> 103 Philips Ligh <i>Comment Status</i> A efined Clause 14 and the PH' se 126."	L 22 hting Ys defined in Clau	# <u>r01-128</u> <i>Editorial</i> use 25, Clause 40,	data an Strike 't Suggestedf Strike 't Response ACCEP Cl 145 Yseboodt, L Comment T Table 1 from the As such Suggestedf Swap p Response REJEC	ad power." the' before data Remedy the' before data PT. SC 145.1.3 Lennart Type E 45-1 lists the s e PSE Type ar h, it would mak Remedy position of colu	a. <i>Response Status</i> <i>P</i> Phili <i>Comment Status</i> system parameters. T ad the number of pow se sense to swap the mns 2 and 3 in Table <i>Response Status</i>	C 105 ps Lighting s R The Nomina vered pairs. order of the 145-1. C	L 31 al highest curre ose columns.	# <u>r01-131</u> <i>Editorial</i> ent per pair is derived
Comment Type E "The cabling portion No need for capitals SuggestedRemedy Decapitalize. Response ACCEPT. CI 145 SC 145.1 Yseboodt, Lennart Comment Type E "Those MAUs are de Clause 55, and Clau Not English. SuggestedRemedy Change as follows: "Those MAUs are de	of the system is defined as t in Link Section. <i>Response Status</i> C <i>P</i> 103 Philips Ligh <i>Comment Status</i> A efined Clause 14 and the PH' se 126."	L 22 hting Ys defined in Clau	# <u>r01-128</u> <i>Editorial</i> use 25, Clause 40,	data an Strike 't Suggestedf Strike 't Response ACCEP Cl 145 Yseboodt, L Comment T Table 1 from the As such Suggestedf Swap p Response REJEC Comme	ad power." the' before data Remedy the' before data PT. SC 145.1.3 Lennart Type E 45-1 lists the s e PSE Type ar h, it would mak Remedy position of colu T. ent is out of sc	a. <i>Response Status</i> <i>P</i> Phili <i>Comment Status</i> system parameters. T ad the number of pow se sense to swap the mns 2 and 3 in Table <i>Response Status</i> ope of the recirculatic	C 105 ps Lighting s R The Nomina vered pairs. order of the 145-1. C on. Comme	L 31 al highest curre ose columns.	# <u>r01-131</u> <i>Editorial</i> ent per pair is derived

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

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C/ 145 SC 145.1 Yseboodt, Lennart		106 ps Lighting	L 28	# r01-132	C/ 145 Seboodt, Lenr	C 145.2 art	F	P107 Philips Lighting	L 18	# r01-134
Comment Type ER TOPIC:SIGNATUF These comments f			iture'.	Editorial		electrical s	Comment St pecifications that		SE are in 145.	Editori 4."
When referring to	detection, we should tal	k about "PD	detection sign		SuggestedRem				05 **	····
	signature configuration, D signature configuratio		either say "sing	le-signature PD, dual-		electrical s	pecifications that		SE are "speci	med." In 145.4."
The draft contains	12 instances of the am	oiguous "PD	signature".		Response ACCEPT.		Response Sta	atus C		
"When connected	to a dual- signature PD	when opera	ating in 2-pair r	node, or when the PD	ACCELLT.					
	yet been identified, V PS					C 145.2.1		P107	L 28	# r01-135
Alternative."	any negative conductor	or the corres	sponding pairs	et, for the given	Yseboodt, Lenr	art	F	Philips Lighting		
SuggestedRemedy					Comment Type		Comment St	tatus D		Editori
	to a dual- signature PD				"PSE Type	is a consta	int."			
	uration** not yet been id of the pairset and any r native."				requiremen	ts) when it	e reconfigured be is in the IDLE/DI can of worms, he	SABLED state		
Response	Response Status	S C					entences that cau	,		
•										
ACCEPT IN PRIN	CIPLE.				SuggestedRem	edy				
	CIPLE. to a dual- signature PD	when opera	ating in 2-pair r	node, or when the PD	SuggestedRem Remove qu	-	nce.			
"When connected signature **configu	to a dual- signature PD uration** has not yet bee of the pairset and any r	en identified,	V PSE is mea	asured between any		oted senter	nce. Response Sta	atus Z		
"When connected signature **configu positive conductor for the given Alterr	to a dual- signature PD uration** has not yet bee of the pairset and any r native."	en identified,	V PSE is mea	asured between any orresponding pairset,	Remove qu Proposed Resp REJECT.	oted senter onse				
"When connected signature **configu positive conductor for the given Altern C/ 145 SC 145.1	to a dual- signature PD uration** has not yet bee of the pairset and any r native."	en identified, negative con	V PSE is mea ductor of the c	asured between any	Remove qu Proposed Resp REJECT.	oted senter onse	Response Sta			
"When connected signature **configu positive conductor for the given Altern	to a dual- signature PD uration** has not yet bee of the pairset and any r native."	en identified, negative con 106 ps Lighting	V PSE is mea ductor of the c	asured between any orresponding pairset,	Remove qu Proposed Resp REJECT.	oted senter onse	Response Sta			
"When connected signature **configu positive conductor for the given Altern Cl 145 SC 145.1 (seboodt, Lennart Comment Type E "Type 3 and Type	to a dual- signature PD, uration** has not yet bee of the pairset and any r native." 1.4 <i>P</i> Phil	en identified, negative con 106 ps Lighting s A ass D, or bet	V PSE is mea ductor of the c L 34 ter, cabling as	# <u>r01-133</u> <i>Editorial</i> specified in ISO/IEC	Remove qu Proposed Resp REJECT.	oted senter onse	Response Sta			
"When connected signature **configu positive conductor for the given Alterr C/ 145 SC 145.1 (seboodt, Lennart Comment Type E "Type 3 and Type 11801:1995 with th or less."	to a dual- signature PD uration** has not yet bee of the pairset and any r native." 1.4 <i>P</i> Phil <i>Comment Statu</i> 4 operation requires Cla ne additional requirement sinst D3.0 attempted to f	en identified, negative con 106 ps Lighting s A uss D, or bet nt that the ch	V PSE is mea ductor of the c <i>L</i> 34 ter, cabling as nannel DC loop	# <u>r01-133</u> <i>Editorial</i> specified in ISO/IEC o resistance is 25 Ohm	Remove qu Proposed Resp REJECT.	oted senter onse	Response Sta			
"When connected signature **configu positive conductor for the given Alterr C/ 145 SC 145.1 (seboodt, Lennart Comment Type E "Type 3 and Type 11801:1995 with th or less." Comment i-48 aga Redundant referen	to a dual- signature PD uration** has not yet bee of the pairset and any r native." 1.4 <i>P</i> Phil <i>Comment Statu</i> 4 operation requires Cla ne additional requirement sinst D3.0 attempted to f	en identified, negative con 106 ps Lighting s A uss D, or bet nt that the ch	V PSE is mea ductor of the c <i>L</i> 34 ter, cabling as nannel DC loop	# <u>r01-133</u> <i>Editorial</i> specified in ISO/IEC o resistance is 25 Ohm	Remove qu Proposed Resp REJECT.	oted senter onse	Response Sta			
"When connected signature **configu positive conductor for the given Alterr C/ 145 SC 145.1 (seboodt, Lennart Comment Type E "Type 3 and Type 11801:1995 with th or less." Comment i-48 aga Redundant referen SuggestedRemedy Replace by: "Class D, or better requirement that th	to a dual- signature PD uration** has not yet bee of the pairset and any r native." 1.4 <i>P</i> Phil <i>Comment Statu</i> 4 operation requires Cla ne additional requirement sinst D3.0 attempted to f	n identified, negative con 106 ps Lighting s A nss D, or bet nt that the ch ix this, but m	V PSE is mea ductor of the c <i>L</i> 34 ter, cabling as nannel DC loop nisquoted the c	asured between any corresponding pairset, # <u>r01-133</u> <i>Editorial</i> specified in ISO/IEC o resistance is 25 Ohm draft.	Remove qu Proposed Resp REJECT.	oted senter onse	Response Sta			
"When connected signature **configu positive conductor for the given Alterr Cl 145 SC 145.1 (seboodt, Lennart Comment Type E "Type 3 and Type 11801:1995 with th or less." Comment i-48 aga Redundant referen SuggestedRemedy Replace by: "Class D, or better requirement that th	to a dual- signature PD uration** has not yet bee of the pairset and any r native." 1.4 <i>P</i> Phil <i>Comment Statu</i> 4 operation requires Cla he additional requirement ainst D3.0 attempted to the face to Type.	n identified, negative con 106 ps Lighting s A nss D, or bet nt that the ch ix this, but m ISO/IEC 111 stance is 25	V PSE is mea ductor of the c <i>L</i> 34 ter, cabling as nannel DC loop nisquoted the c	asured between any corresponding pairset, # <u>r01-133</u> <i>Editorial</i> specified in ISO/IEC o resistance is 25 Ohm draft.	Remove qu Proposed Resp REJECT.	oted senter onse	Response Sta			

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

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CI 145 SC 145.2.1 P 107 L 30 # [r01-136] Yseboodt, Lennart Philips Lighting Philips	C/ 145 SC 145.2.4 P 115 L 5 # r01-137 Yseboodt, Lennart Philips Lighting
Comment Type TR Comment Status A PSE Types I lost count of how many times we have changed Table 145-2, and it is STILL wrong and confusing.	Comment Type E Comment Status A Editorial " which for PSEs are called Alternatives A and Alternative B." Editorial
Issues: - 'Supports 4-pair power' has entry 'Optional' and 'Yes' ==> this overlaps. - "Range of maximum Class supported" ==> requires a PhD in subtle standards language to understand - Every single one of the values for "Range of maximum Class supported" is wrong per the	Typo and mirror use of 'named' as is done in the PD section. SuggestedRemedy " which for PSEs are named Alternative A and Alternative B." Response Response Status C
changes to D3.0 SuggestedRemedy	ACCEPT. C/ 145 SC 145.2.5.1 P116 L 26 # r01-138
 Will use column,row coordinates for changes, the heading row counts as row 0. Change: (2,1) replace "Optional" by "No" (3,0) replace "Range of maximum Class supported" by "Highest Class supported" (3,1) replace "Class 3 to 4" by "1 to 4" (3,2) replace "Class 5 to 6" by "1 to 6" (3,3) replace "Class 8" by "7 to 8" Straddle columns with identical content where appropriate. 	Yseboodt, Lennart Philips Lighting Comment Type ER Comment Status A Editorial TOPIC:SIGNATURE These comments fix inconsistencies in the word 'signature'. Ketter and the status A Editorial 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".
Response Response Status C ACCEPT IN PRINCIPLE. Vill use column,row coordinates for changes, the heading row counts as row 0. Change: (2,1) replace "Optional" by "No/Yes" (3,0) replace "Range of maximum Class supported" by "Highest Class supported"	"If a PSE performing detection using Alternative A detects an invalid signature, it should complete a second detection in less than T dbo after the beginning of the first detection attempt. This allows an Alternative A PSE to complete a successful detection cycle prior to an Alternative B PSE present on the same link section that may have caused the invalid signature."
 (3,1) replace "Class 3 to 4" by "1 to 4" (3,2) replace "Class 5 to 6" by "1 to 6" (3,3) replace "Class 8" by "7 to 8" Straddle columns with identical content where appropriate. 	Change as follows: "If a PSE performing detection using Alternative A detects an invalid **detection** signature, it should complete a second detection in less than T dbo after the beginning of the first detection attempt. This allows an Alternative A PSE to complete a successful detection cycle prior to an Alternative B PSE present on the same link section that may have caused the invalid **detection** signature."
	Response Response Status C ACCEPT.

This sentence PSE statedia SuggestedRemed Remove this	E C	Philips Lightir	.9		Yseboodt,	_ornant		Philips Lightin	- M			
"Monitoring o This sentence PSE statedia SuggestedRemee Remove this	f inrush is desc			PSE SD	Comment	Tvpe	TR	Comment Status A	•	Pres: Yseboodt6		
Remove this	"Monitoring of inrush is described by the state diagram in Figure 145-19." This sentence is to be removed when the inrush statediagrams are included in the top level PSE statediagram. SuggestedRemedy						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.					
Remove this sentence when the inrush statediagrams are included in the top level PSE statediagram. (Wait for other comment and revisit if adopted).						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 ?						
Proposed Response Response Status Z						- is it a variable that must be set according to certain rules (eg. mps_valid) ?						
REJECT.					The cu	rrent des	scriptions	don't help.				
This comment was WITHDRAWN by the commenter.				Some examples: alt_done_pri: A variable used to coordinate [this one is reserved for the state diagram] alt_pri: A variable used to select [this is a config variable] alt_pwrd_pri: A variable that controls [also reserved for the state diagram] autoclass_enable: A control variable indicating [configuration] class_4PID_mult_events_pri: A variable indicating [configuration] det_once_sec: This variable indicates [reserved for state diagram] MirroredPDAutoclassRequest: A control variable output [reserved for state diagram] mps_valid: This variable indicates the presence or absence of a valid MPS [mandatory set per requirements]								
					If we don't specify the 'usage rules' of variables, the state diagram can be made to do anything.							
					SuggestedRemedy							
					Adopt yseboodt_06_0117_variablerules.pdf							
					Response ACCE	PT IN PF	RINCIPLE	Response Status C				
						adopt changes shown in http://www.ieee802.org/3/bt/public/nov17/yseboodt_06_0117_final.pdf						
						[Editor's note added after comment resolution completed:						
					There is a typo in the file name. The file used is http://www.ieee802.org/3/bt/public/nov17/yseboodt_06_1117_final.pdf]							

C/145SC145.2.5.3P117LYseboodt, LennartPhilips Lighting	49 # r01-141	cycle		efers to detection on bo		being performed	
		C/ 145	SC 145.2.5.	4 <i>P</i> 11	8	L 31	# r01-142
Comment Type TR Comment Status A A bunch of descriptive text was added after CC_DET_SEC		SD Ysebood	t, Lennart	Philips	Lighting		
 For a single-signature PD, parallel detection means that d within the T det time period. For a dual-signature PD, parallel detection means that de within the same T det time period. For a single-signature PD, staggered detection means that do not in different T det cycles. For a dual-signature PD, parallel detection means that d different T det cycles." 	letection on both pairsets is d etection on both pairsets is do at detection on both pairsets is	ne CON	IMENT: ALT_PW The TRUE definit "The PSE has de ring the Primary and	tion of alt_pwrd_pri and etected, classified, and	d alt_pwrd_so will power a	PD on the Prim	
			Other comments	fix the editorial issues	with these se	entences.	
I feel this text adds more confusion / risk of contradiction th to keep it ?	nan that it clarifies. Do we wa		liscussed this at t	the last meeting and I f	eel we did no	ot end up with a	good solution.
If yes, the following issues: - last sentence seems to want to say 'staggered detection' - That means the definition for staggered detection is the s same.		Thes	e variables' "TRU	bles should be restricte JE" description includes g a forward looking sta	s behaviour t		
 Is there a difference between the first two sentences ? If y reversed ? 	yes it feels like it should be	If we	look at how these	e variables are actually	v used, the de	efinition really is	s very simple:
Descriptive text like this does NOTHING technically.		TRU		not to apply power to the XY			
If we're worried about 'parallel detection' being interpreted a precisely at the same time, I would offer that a do_detection			edRemedy				
allowed to be called, and wait around doing nothing for a w is doing it's thing), as long as it meets the Tdet timing. In fact, as we discovered, the functions MUST be able to w to use CC_DET_SEQ=2 where the two detection functions at the same time.	while, (eg. while the other function of the other func	"FAL and		nces by: / that applies operating hat applies operating v	U	2	
SuggestedRemedy		And	the same for Sec	ondary.			
Option 1: remove quoted text.		Respons ACC		Response Status	С		
Option 2: [my suggestion based on some guess work] Replace by: "Parallel detection refers to detection on both pairsets bein time period. Staggered detection refers to detection on both pairsets be cycle."							
Response Response Status C							
ACCEPT IN PRINCIPLE.							
Replace by: "Parallel detection refers to detection on both pairsets bein time period.	g performed in the same Tde						
TYPE: TR/technical required ER/editorial required GR/genera					Comment ID	r01-142	Page 37 of 130

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 145.2 Yseboodt, Lennart	2.5.4 P118 Philips Light	L 31 ing	# <u>r01-143</u>	C/ 145 Yseboodt,	SC 145.2.5.4 Lennart	P 118 Philips Lighti	L 38 ng	# r01-145
powering the Prim Missing 'or'.	ected, classified, and will power	a PD on the Prin	<i>Altpwrd</i> nary Alternative, is	"The F	ole alt_pwrd_sec, SE has detected	classified, and will power a	PD on the Sec	Altpwro
SuggestedRemedy "The PSE has dete powering the Prim	ected, classified, and will power ary Alternative."	a PD on the Prin	nary Alternative, **or** is			ected, classified, and will po ary Alternative."	wer a PD on the	Primary Alternative, or
Ignore if comment	marked ALT_PWRD is accepte	d.		le	gnore if comment	marked ALT_PWRD is acc	epted.	
Response	Response Status C			Response		Response Status C		
ACCEPT IN PRIN	CIPLE.			ACCE	PT IN PRINCIPLE	.		
and "TRUE: The circui And the same for S	uitry that applies operating voltage ry that applies operating voltage Secondary. dentical to comment #142.			"FALS and "TRUI And th	E: The circuitry that the same for Secor	nat applies operating voltag at applies operating voltage		
Yseboodt, Lennart	Philips Light	ing						
	Comment Status A licates whether a 4-pair PSE has on a second Alternative."	s completed dete	<i>Editorial</i> ection on a first					
Description differs	from how 'both_neither' and 'on	ly_one' are desc	ribed.					
SuggestedRemedy								
	licates whether a 4-pair PSE ha	s completed dete	ection on one and only					
Response	Response Status C							
ACCEPT IN PRIN								
	licates whether a 4-pair PSE ha if the PSE has completed detect							

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 145.2.5.4 P 118 L 38 # [r01-146] Yseboodt, Lennart Philips Lighting	C/145SC145.2.5.4P 119L 40# r01-148Yseboodt, LennartPhilips Lighting
Comment Type TR Comment Status A Altpwrd	Comment Type TR Comment Status A PD SD
Variable alt_pwrd_sec, TRUE: "The PSE has detected, classified, and will power a PD on the Secondary Alternative."	"dll_4PID A variable indicating the state of the PD 4PID bit in the 'power type/source/priority field', as defined in Table 79-4."
Missing the bit where it is already powering the Secondary. <i>aggestedRemedy</i> "The PSE has detected, classified, and will power a PD on the Secondary Alternative**, or is powering the Secondary Alternative**." <i>esponse</i> <i>Response Status</i> C ACCEPT IN PRINCIPLE. Replace quoted sentences by: "FALSE: The circuitry that applies operating voltage to the Primary Alternative is disabled." and "TRUE: The circuitry that applies operating voltage to the Primary Alternative is enabled." And the same for Secondary.	The values are described as: "0: 2-pair power negotiated. 1: 4-pair power negotiated." Issues: 1. The value description does not match the definition in Clause 79. 2. This variable does not have a mapping to aLldpXdot3LocPD4PID / aLldpXdot3RemPD4PID 3. It isn't being set properly by the DLL state diagrams (for Type 3/4 this variable must be set to True) 4. The value is an integer, but is used as a boolean in the PSE state diagram. SuggestedRemedy Do the following: - Change values for dll_4PID as follows: "FALSE: PD does not support powering of both Modes simultaneously
This resolution is identical to comment #142. 145 SC 145.2.5.4 P 119 L 40 # [r01-147] eboodt, Lennart Philips Lighting Philips Lighting Philips Lighting	 TRUE: PD supports powering of both Modes simultaneously" Add the following mappings to the (new) DLL mapping Tables: PSE aLldpXdot3RemPD4PID => dll_4PID PD aLldpXdot3LocPD4PID <= dll_4PID # Note: this entry to occur both in single
comment Type E Comment Status A Editorial "A variable indicating the state of the PD 4PID bit in the 'power type/source/priority field" Wrong field quotation. Wrong field quotation. uggestedRemedy Change to: "A variable indicating the state of the PD 4PID bit in the 'Power type/source/priority' field"	and dualsig mapping table Add to INITIALIZE in Figure 145-41: "dll_4PID <= TRUE" Add to INITIALIZE in Figure 145-45 and 145-46: "dll_4PID <= TRUE" Add dll_4PID to the variable lists of the PD DLL control state diagrams <i>Response Response Status</i> C
esponse Response Status C ACCEPT.	ACCEPT. C/ 145 SC 145.2.5.4 P 120 L 7 # [r01-149] Yseboodt, Lennart Philips Lighting
	Comment Type ER Comment Status A Editorial Variable error_condition_pri is listed twice (copy / paste mistake). Editorial
	SuggestedRemedy Change error_condition_pri on p120/line 7 to error_condition_sec
	Response Response Status C ACCEPT.
YPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G OMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/v ORT ORDER: Comment ID	

C/ 145 SC 145.2.5.4 P121 L 22 C/ 145 SC 145.2.5.6 P121 L53# r01-152 # r01-150 Yseboodt, Lennart Philips Lighting Philips Lighting Yseboodt, Lennart Comment Type E Comment Status A Editorial Comment Type E Comment Status A **F**ditorial Variable option_2ev has incorrect formatting of the value descriptions (not aligned). option probe alt sec "This variable indicates if the PSE will continue to detect and conditionally class on the SuggestedRemedy Secondary Alternative in the event power is not applied to the Primary Alternative." Fix. Also same fix for: 'class' is not a verb. - pd reg pwr SuggestedRemedy - pse_allocated_pwr Change as follows: Response Response Status C "This variable indicates if the PSE will continue to detect and conditionally XXclassXX ACCEPT. **perform Physical Layer classification** on the Secondary Alternative in the event power is not applied to the Primary Alternative." C/ 145 SC 145.2.5.4 P121 L 28 # r01-151 Response Response Status C Yseboodt, Lennart Philips Lighting ACCEPT. Comment Type E Comment Status A Editorial C/ 145 P122 SC 145.2.5.4 L43 # r01-153 option class probe: "This variable indicates if the PSE should determine the PD requested Class when pse_avail_pwr is less than 4. ..." Yseboodt, Lennart Philips Lighting Comment Type Е Comment Status A **F**ditorial The state diagram will perform class probing when this option is set regardless of the value "This variable is a function of the results of Detection, Connection Check, Physical Layer of pse_avail_pwr. Classification, and PD 4PID: see 145.2.6.7." The actual behavior is further complicated by option 2ev and this variable being used for dual-signature. Unnecessary capitalization. Best way to fix this description is not to mention any conditions that don't really apply anyway. SuggestedRemedy SuggestedRemedy Change to: Replace first sentence by: "This variable is a function of the results of detection, connection check, Physical Laver classification, and PD 4PID: see 145.2.6.7." "This variable indicates if the PSE should determine the PD requested Class via the do class probe function." Response Response Status C Response Response Status C ACCEPT. ACCEPT.

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

IEEE P802.3bt D3.1 4-Pair PoE 1st Spor	onsor recirculation ballot comments
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7 145 SC 145.	.2.5.4	P 124	L 19	# r01-154	C/ 145	SC 14	5.2.5.4	P 125	L 42	# r01-156
seboodt, Lennart		Philips Lighting			Yseboodt,	Lennart		Philips Lighting		
We no longer use	vr, value 3 is des e Class 0 for ass			PSE SD exists as a requested	"Contro	set_pri: ols the res		Comment Status A the PSE state diagram on Alte		
power and is treat cuggestedRemedy Change quoted te		Class 3.			diagrai	ns has rea	ached th	wer supply for the device that of e operating region. It is also TI PSE Alternative A functionality	RUE when im	
Do the same for r	and avail own r	ori and pse_avail_pw	<i>I</i> T 500		Hard li	nks _pri to	Alterna	tive A.		
esponse			M_Sec.		Suggested	Remedy				
ACCEPT.	Respons	ose Status C						with "Primary Alternative" with "Secondary Alternative"		
SC 145 SC 145. Seboodt, Lennart	.2.5.4	P 125 Philips Lighting	L 32	# r01-155	Response ACCE	PT.		Response Status C		
comment Type EF	R Comme	ent Status A		Editorial	C/ 145	SC 14	5.2.5.4	P126	L 7	# r01-157
TOPIC:SIGNATU					Yseboodt,	Lennart		Philips Lighting		
		cies in the word 'sign should talk about "PD		aature"	Comment	Туре Т	-	Comment Status A		PSE SD
When referring to signature PD, or F	signature config PD signature cor	guration, we should	either say "sing	gle-signature PD, dual-	pair to	a Class 0	to 4 sing	le that controls whether the PS gle-signature PD." Class, and as such, it should be		
"NOTECare sho	ould be taken wi	hen negating this va	riable in a PSE	E performing detection	Suggested		signed C		, Class 1 to 4.	
using Alternative A between detection		d signature is detect	ed due to the o	delay it introduces	00		e ss mo	de: A variable that controls wh	ether the PSE	E provides power over
uggestedRemedy	Tattempts (See	145.2.5.1).			2 pair o		a single	e-signature PD assigned to Cla		
Change as follows		han nagating this va	richle in e DSE	e performing detection	Response			Response Status C		
using Alternative	A after an invalio		ature is detecte	d due to the delay it	ACCE	PT.				
esponse		se Status C	,		C/ 145	SC 14	5.2.5.4	P 127	L 9	# r01-158
ACCEPT.					Yseboodt,	Lennart		Philips Lighting		
						are 5 occu	urances	Comment Status A of the term "state variable" in th p_var_pri, and temp_var_sec r		
					Suggested Replac		ariable' v	vith 'variable' (3x).		
					Response ACCEI	PT.		Response Status C		

-	SC 145.2.5.5	P127	L 40	# r01-159	C/ 145	SC 145.2.5.		L 14	# r01-161
Yseboodt, Ler	nnart	Philips Lighting			Yseboodt,	Lennart	Philips Light	ling	
	imer: "A timer ι	Comment Status A used to limit the time between 0 or CC_DET_SEQ = 3. See			These	SIGNATURE comments fix in	Comment Status A neconsistencies in the word 's ection, we should talk about		Editoria
SuggestedRe	2				When signat	referring to sign ure PD, or PD s	ature configuration, we should talk about ature configuration, we should ignature configuration". instances of the ambiguous	uld either say "sin	
		<pre>time between connection ch C_DET_SEQ = 3. See T cc2c Response Status C</pre>				imer: "A timer u Table 145-16."	sed to regulate backoff upor	detection of an i	nvalid signature; see T
, ACCEPT.					Suggested	IRemedy			
	SC 145.2.5.5	P 127	L 48	# r01-160	"A time	e as follows: er used to regul Table 145-16."	ate backoff upon detection o	f an invalid **dete	ection** signature; see T
Yseboodt, Ler Comment Typ		Philips Lighting Comment Status A		PSE SD	Response		Response Status C		
Event clas	ssification on th	used to limit the second and ne Primary Alternative; see T through fourth class event tim	CEV in Table		ACCE C/ 145 Yseboodt,	SC 145.2.5.	6 P 130 Philips Light	L 6 ting	# <u>r01-162</u>
	o: "A timer use	d to limit the second through ne Primary Alternative; see T				nction do_class	Comment Status A _probe returns the variable p efined in the variables section		Editoria
Same fix	for tcev_timer_	Sec.			A doul	ole definition ne	eds to be kept in perfect syn	c or it can lead to	ambiguity.
Response		Response Status C					bly to point to the variable the		
ACCEPT.						ce line 6-15 on p	page 130 by: _req_pwr' in 145.2.5.4."		
					Response		Response Status C		
						ce line 6-15 on p q_pwr: See 'pd_	page 130 by: _req_pwr' in 145.2.5.4."		
					chang variab		s_probe" on page 123, line 1	5 to "do_class_p	robe also returns this

	SC 145.2.5.6	P 130	L 21	# r01-163	C/ 145 SC 14	5.2.5.6	P 131	L 35	# r01-165
Yseboodt, Len	nart	Philips Lighting	J		Yseboodt, Lennart		Philips Lighting		
Comment Type	e ER	Comment Status A		Editorial	Comment Type	R	Comment Status A		Editoria
do_classifi A double d	fication_pri. definition need	probe_pri returns the variable ds to be kept in perfect sync o y to point to the variable than	or it can lead to a		"5: Class 5 (pd_0	class_sig_	ariable pd_req_pwr_pri, value _pri will have a value of 4 for uent class events.)"	e 5 is decribed the first two cl	l as: lass events and a
Cooo in na	aint the definition	tions of and non-non-nuite by	the formation as have	duifte d'an ant (an a la a	We have remove	ed this de	scription everywhere else, th	is is a leftover	
	he other does	itions of pd_req_pwr_pri in bo not).	ith functions has	drifted apart (one has	SuggestedRemedy				
SuggestedRen					Remove quoted	text here	and also in do_classification	_sec.	
00		on page 130 with:			Response	I	Response Status C		
	owr_pri: See 'p	od_req_pwr_pri' in the function	n do_classificatio	n defined in	ACCEPT.				
Same fix f	for pd_req_pv	vr_sec in do_classification_se	€C.		C/ 145 SC 14 Yseboodt, Lennart	5.2.5.6	P 132 Philips Lighting	L 43	# r01-166
Response		Response Status C					1 0 0		
ACCEPT I	IN PRINCIPLI	•			Comment Type E		Comment Status A		Editoria
145.2.5.6.'	."	od_req_pwr_pri' in the function		n_pri delined in	When referring t signature PD, or	o signatur PD signa	n, we should talk about "PD e configuration, we should e ture configuration". ances of the ambiguous "PD	ither say "sing	
C/ 145 S	SC 145.2.5.6	P130	L 30	# r01-164			dicates the Type of PD signa	ature connecte	ed to the PI, with
					respect to 4-pair	operation			
Yseboodt, Len	nnart	Philips Lighting	Ĵ.		and	operation	h."		
Yseboodt, Len		Philips Lighting Comment Status A	g	Editorial	"invalid: Neither	a single-s	ignature PD nor a dual-signa		ection check signature
Yseboodt, Len Comment Type	e ER	1 0 0	•		"invalid: Neither has been found.	a single-s			ection check signature
Yseboodt, Len Comment Type The functio	e ER ion do_class_	Comment Status A	e pd_cls_4PID_pr		"invalid: Neither has been found. SuggestedRemedy	a single-s	ignature PD nor a dual-signa		ection check signature
Yseboodt, Len Comment Type The functio This variat A double o It would be SuggestedRen	be ER ion do_class_ ble is also def definition need e better simpli medy	Comment Status A probe_pri returns the variable fined in the variables section ds to be kept in perfect sync o y to point to the variable than	e pd_cls_4PID_pr 145.2.5.4. or it can lead to a	i.	"invalid: Neither has been found. <i>SuggestedRemedy</i> Replace by: "sig_type: This v the PI, with resp "invalid: Neither	a single-s This inclu ariable ind ect to 4-pa a single-s	ignature PD nor a dual-signa ides an open circuit condition dicates the Type of PD signa	n." ature **configu	ration** connected to
Yseboodt, Len Comment Type The functio This variat A double o It would be SuggestedRen Replace lir	be ER ion do_class_ ble is also def definition need e better simpli medy ine 30-36 on p	Comment Status A probe_pri returns the variable fined in the variables section ds to be kept in perfect sync o y to point to the variable than	e pd_cls_4PID_pr 145.2.5.4. or it can lead to a re-describe it.	i.	"invalid: Neither has been found. SuggestedRemedy Replace by: "sig_type: This v the PI, with resp "invalid: Neither found. This inclu Response	a single-s This inclu ariable ind ect to 4-pa a single-s des an op	ignature PD nor a dual-signa ides an open circuit condition dicates the Type of PD signa air operation." ignature nor a dual-signature	n." ature **configu	ration** connected to
Yseboodt, Len Comment Type The functio This variab A double o It would be SuggestedRen Replace lin "pd_cls_4f	be ER ion do_class_ ble is also def definition need e better simpli medy ine 30-36 on p	Comment Status A probe_pri returns the variable fined in the variables section ds to be kept in perfect sync o y to point to the variable than page 130 by: 'pd_cls_4PID_pri' in 145.2.5.4	e pd_cls_4PID_pr 145.2.5.4. or it can lead to a re-describe it.	i.	"invalid: Neither has been found. SuggestedRemedy Replace by: "sig_type: This v the PI, with resp "invalid: Neither found. This inclu	a single-s This inclu ariable ind ect to 4-pa a single-s des an op	ignature PD nor a dual-signa ides an open circuit condition dicates the Type of PD signa air operation." ignature nor a dual-signature ben circuit condition."	n." ature **configu	ration** connected to
Yseboodt, Len Comment Type The functio This variab A double o It would be SuggestedRen Replace lin "pd_cls_4f	be ER ion do_class_ ble is also def definition need e better simpl medy ine 30-36 on p PID_pri: See	Comment Status A probe_pri returns the variable fined in the variables section ds to be kept in perfect sync o y to point to the variable than page 130 by: 'pd_cls_4PID_pri' in 145.2.5.4	e pd_cls_4PID_pr 145.2.5.4. or it can lead to a re-describe it.	i.	"invalid: Neither has been found. SuggestedRemedy Replace by: "sig_type: This v the PI, with resp "invalid: Neither found. This inclu Response	a single-s This inclu ariable ind ect to 4-pa a single-s des an op	ignature PD nor a dual-signa ides an open circuit condition dicates the Type of PD signa air operation." ignature nor a dual-signature ben circuit condition."	n." ature **configu	ration** connected to

C/ 145 SC 145.2.5.6 Yseboodt, Lennart	P 133 Philips Lightin	L 5 g	# r01-167	C/ 145 Yseboodt, I	SC 145.2. _ennart	5.6		P 133 Philips Ligh	L 43 ting	# r01-169
Comment Type ER	Comment Status A	0	Editorial	Comment 1	ype ER	Сс	omment	Status A	0	Editoria
TOPIC:SIGNATURE These comments fix inc	consistencies in the word 'sig ction, we should talk about "P		paturo"						turns the variabl ion_pri function.	e pse_allocated_pwr_pri.
When referring to signa signature PD, or PD si	ature configuration, we should gnature configuration".	d either say "sin							c or it can lead to an re-describe it.	
The draft contains 12 in	nstances of the ambiguous "F	D signature".		Suggested	Remedy					
"- open_circuit: The PS - valid: The PSE has d	es in the way the values for on E has detected an open circule tected a valid PD signature. circuit nor valid PD detection	uit.		"pse_a do_clas	ssification_pr	_pri: Šee i defined	in 145.2	2.5.6."	pri' returned by tl	he function
SuggestedRemedy		5		Same f	ix for pse_all	ocated_p	owr_sec.			
Replace by:				Response		Re	sponse S	Status C		
"- open_circuit: The PS	E has detected an open circu etected a valid PD **detectio			ACCEF	νТ.					
 invalid: Neither **an** 	* open circuit nor **a** valid F	PD detection sig	nature has been found."	C/ 145	SC 145.2.	5.7		P 135	L 6	# r01-170
				Yseboodt, I	ennart			Philips Ligh	tina	
Apply the same fix for	do detect sec.								5	
Apply the same fix for a				Comment 7		Co	omment	Status A	5	PSE SI
	do_detect_sec. Response Status C			Comment 7 We nee	<i>Type</i> TR and to reset a	couple of	f variable	Status A	the IDLE state to	PSE SL allow multiple passes
Response ACCEPT.		L 25	# r01-168	Comment 7 We nee through Suggested	<i>Type</i> TR ed to reset a in the state dia Remedy	couple of agram as	f variable indicate	Status A es / timers in ed by simulati	the IDLE state to	
Response ACCEPT. Cl 145 SC 145.2.5.6	Response Status C		# r01-168	Comment T We nee through Suggested Add in	<i>Type</i> TR ed to reset a the state dia Remedy state "IDLE"	couple of agram as the follov	f variable indicate	Status A es / timers in ed by simulati	the IDLE state to	
Response ACCEPT.	Response Status C		# <u>r01-168</u> Editorial	Comment T We nee through Suggested Add in "stop to	<i>Type</i> TR ed to reset a in the state dia Remedy	couple of agram as the follov	f variable indicate	Status A es / timers in ed by simulati	the IDLE state to	PSE SL allow multiple passes
Response ACCEPT. Cl 145 SC 145.2.5.6 (seboodt, Lennart Comment Type ER The function do_update	Response Status C P133 Philips Lightin	g the variable pse	Editorial	Comment 1 We nee through Suggested Add in "stop to "stop to "sig_pr	Type TR ed to reset a in the state dia Remedy state "IDLE" cc2det_timer	couple of agram as the follov	f variable indicate	Status A es / timers in ed by simulati	the IDLE state to	
Response ACCEPT. Cl 145 SC 145.2.5.6 Yseboodt, Lennart Comment Type ER The function do_update This variable is also def	Response Status C P133 Philips Lightin Comment Status A e_pse_allocated_pwr returns fined in the variables section	g the variable pse 145.2.5.4.	Editorial e_allocated_pwr.	Comment 1 We nee through Suggested Add in "stop to "stop to "sig_pr	Type TR ed to reset a in the state dia Remedy state "IDLE" :c2det_timer' let2det_timer i = FALSE"	couple of agram as the follov "	f variable indicate	Status A es / timers in ed by simulati	the IDLE state to	
Response ACCEPT. Cl 145 SC 145.2.5.6 Yseboodt, Lennart Comment Type ER The function do_update This variable is also def A double definition need	Response Status C P133 Philips Lightin Comment Status A e_pse_allocated_pwr returns	g the variable pse 145.2.5.4. or it can lead to	Editorial e_allocated_pwr.	Comment T We new through Suggestedu Add in "stop to "stop to "sig_pr "sig_se Response	Type TR ed to reset a in the state dia Remedy state "IDLE" :c2det_timer' let2det_timer i = FALSE"	couple of agram as the follov " <i>Re</i> a	f variable indicate	Status A es / timers in ed by simulati ements:	the IDLE state to	
Response ACCEPT. Cl 145 SC 145.2.5.6 Yseboodt, Lennart Comment Type ER The function do_update This variable is also def A double definition need	Response Status C P133 Philips Lightin Comment Status A e_pse_allocated_pwr returns fined in the variables section ds to be kept in perfect sync	g the variable pse 145.2.5.4. or it can lead to	Editorial e_allocated_pwr.	Comment T We new through Suggestedu Add in "stop to "stop to "sig_pr "sig_se Response ACCEF	Type TR ed to reset a in the state dia Remedy state "IDLE" sc2det_timer" let2det_timer i = FALSE" c = FALSE"	couple of agram as the follov " <i>Re</i> .	f variable indicate ving state	Status A es / timers in ed by simulati ements: Status C	the IDLE state to	
Response ACCEPT. Cl 145 SC 145.2.5.6 (seboodt, Lennart Comment Type ER The function do_update This variable is also del A double definition need It would be better simpl SuggestedRemedy Replace line 29-38 by:	Response Status C P133 Philips Lightin Comment Status A e_pse_allocated_pwr returns fined in the variables section ds to be kept in perfect sync	g the variable pse 145.2.5.4. or it can lead to n re-describe it.	Editorial e_allocated_pwr.	Comment T We nea through Suggested Add in "stop to "sig_pr "sig_se Response ACCEF Add in "stop to "stop to	Type TR ed to reset a in the state dia Remedy state "IDLE" sc2det_timer let2det_timer i = FALSE" c = FALSE" PT IN PRINC	couple of agram as the follov " <i>Re</i> . IPLE. the follov	f variable indicate ving state	Status A es / timers in ed by simulati ements: Status C	the IDLE state to	

CI 145 SC 145.2.5.7 P 135 L 6 Yseboodt, Lennart Philips Lighting	# r01-171	C/ 145 Yseboodt, L	SC 145.2.5.7 _ennart	P 135 Philips Lightin	L 13	# r01-172
Comment Type TR Comment Status A The requirements on 4PID and pd_4pair_cand are incompletely in diagram. For dual-signature the value is set, however for single-signature in While pd_4pair_cand is never referenced by the single-sig state of should set it correctly to match with the 4PID text in 145.2.6.7. The forces pd_4pair_cand to be False when a single-sig is connected This comment assumes that another comment will make changes diagrams such that they no longer continuously execute the ENT would effectively force pd_4pair_cand to be False in single-sig). SuggestedRemedy - add "pd_4pair_cand = False" to IDLE - add the following to CLASSIFICATION	Comment T In IDLE alt_pri. This is We're t Suggestedf Remove Setting by yset Response ACCEF	<i>ype</i> TR we have "alt_pr the only instance rying to textually Remedy e this ELSE state alt_pri is done 'c	Comment Status A i = user defined". The value in the state diagram where describe that this variable m ement. putside' of the state diagram, variablerules.pdf Response Status C E.	user defined' is we do this. hay/must be set	by the "user".	
"IF (pse_alternative = both) THEN pd_4pair_cand = True END"		C/ 145 Yseboodt, L	SC 145.2.5.7	P 136 Philips Lightin	L 36	# <u>r01-173</u>
Response Response Status C ACCEPT IN PRINCIPLE.		<i>Comment T</i> There a	51	Comment Status A	-	Editoria
If we want to match the intent of the text, the if statement should I The only way to get to CLASSIFICATION in the SS state diagram but that meaning is kind of hidden with your proposed remedy. Make the following changes: - add "pd_4pair_cand = False" to IDLE - add the following to CLASSIFICATION "IF (sig_type = single) THEN pd_4pair_cand = True END"		Suggested Remov Response ACCEF	e spaces.	Response Status C		

C/ 145 SC 145.		L 33	# r01-174	C/ 145	SC 145.2.5.	-	L 5	# r01-176
Yseboodt, Lennart	Philips Light	ling		Yseboodt,	Lennart	Philips Lighti	ng	
Comment Type TF			PSE SD	Comment	51	Comment Status A		Editoria
lf: - pse_alternative - option_2ev = T	ase bug in single-signature clas = a or b (so, 2-pair PSE) ue (PSE only wants to do 2 clas owr > 4 (a bit strange, but it is a	ss events when it		which The st	SISM machine ates SEMI_PW the top level st	t PSE state diagrams' states they are part of. RON_PRI and SEMI_PWRO ate diagram.		
	e branch logic out of CLASS_E\ option_2ev is set.	/2 is wrong and it	makes a third class			RON_PRI to PRIMARY_SEM RON_SEC to SECONDARY_		
Also, w	should reset allocated power to	o zero in IDLE.		(don't f	orget the label	on page 139!)		
SuggestedRemedy				Response		Response Status C		
	n CLASS_EV2 to MARK_EV_L * option_2ev * ((pse_avail_pwr :		ative != both)) *	ACCE	PT.			
(pd_class_sig = 4		.) · (peo_altern		C/ 145	SC 145.2.5.	7 P141	L 7	# <u>r</u> 01-177
- Change logic fro	n CLASS EV2 to MARK EV2 t	0.		Yseboodt,	Lennart	Philips Lighti	ng	
!option_2ev)" - Add to IDLE	* (pd_class_sig = 4) * (((pse_av	ail_pwr > 4) * (pse	e_alternative = both)) +	This co	ENTRY_PRI" a prrupts the "sig_	Comment Status A and state "ENTRY_SEC" are e pri" assignment of a single si ir_cand" is constantly set to F	ignature pd dete	
"pse_allocated_p				Suggested	Remedy			
Response	Response Status C			Adopt	"yseboodt_03_	1117_psesdconcur.pdf".		
ACCEPT.				Response		Response Status C		
Cl 145 SC 145. Yseboodt, Lennart	2.5.7 P140 Philips Light	L 5	# r01-175	ACCE	PT IN PRINCIP	LE.		
Comment Type E	Comment Status A	ing	Editorial	adopt	changes in http	://www.ieee802.org/3/bt/public	c/nov17/ysebood	dt_03_0117_final.pdf
State "SEMI_PWI	ON_PRI" and "SEMI_PWRON variable name "!power_availab	-	e box badly drawn.	[Editor	's note added a	fter comment resolution comp	oleted:	
completely.						file name. The file used is g/3/bt/public/nov17/yseboodt_	03 1117 final.	odfl
SuggestedRemedy						o ,,		
Redraw state and	correct variable name.							
Response ACCEPT.	Response Status C							

C/ 145 SC 145.2.5.7 Yseboodt, Lennart	P 148 Philips Lighting	L 11	# <u>r01-178</u>	C/ 145 Yseboodt, I	SC 145.2.5.7 Lennart	P 150 Philips Lightir	L 1 ng	# <u>r01-179</u>
Comment Type T Com	nment Status A		Editorial	Comment 7	Туре Т	Comment Status A		PSE SD
Arc from CLASS_EVAL_SEC "ted_timer_sec_done * ted_tim (pd_req_pwr_sec <= pse_avai pd_4pair_cand)"	ner_done *				e just become a ed.	e diagrams don't really mo complicated way to start the		
Has sytra classing paran				00	ove Figure 145-1	Q		
Has extra closing paren.	STNTAX ERROR.				0	alt_pwrd_pri <= TRUE', add	'start tinrush_p	ri_timer'
SuggestedRemedy						alt_pwrd_sec <= TRUE', add	d 'start tinrush_	sec_timer'
Remove final closing paren.					·	add 'start tinrush_pri_timer' add 'start tinrush_sec_timer		
Response Resp	onse Status C					of paragraph at page 116, I		
ACCEPT.				Response		Response Status C		
[Editor's note added after com	ment resolution comple	ted:		ACCEF	PT IN PRINCIPL	•		
This logic has been completely and has not been implemented	5	f comment r01-	434, thus it is OBE	- in PO - in PO - in PO - in PO	WER_UP, after WER_UP_PRI, a WER_UP_SEC,	alt_pwrd_pri <= TRUE', add alt_pwrd_sec <= TRUE', add add 'start tinrush_pri_timer' add 'start tinrush_sec_timer of paragraph at page 116, I	d 'start tinrush_s	
					dd stops for app r comments/pres	ropriate timer(s) to the IDLE, entations.	IDLE_PRI, and	d IDLE_SEC if not done

	45.2.6	P 150	L 28	# r01-180	C/ 145	SC 145	.2.6.1	P 150	L 37	# r01-181
seboodt, Lennart		Philips Lighting			Yseboodt, I	ennart		Philips Lighting		
comment Type	ER	Comment Status A		Editorial	Comment 7	Гуре Т		Comment Status R		Connection Chec
When referring When referring signature PD, o	nts fix incon g to detection g to signature or PD signat	sistencies in the word 'signa a, we should talk about "PD e configuration, we should e ure configuration". nces of the ambiguous "PD	detection signative times and the say "single times are say and the say "single times are say and the say are says and the says are says and the says are says		the classingle-s While I	ssification signature F certainly a	of a PD PD confi agree wi	wer on both pairsets shall co as defined in 145.2.7 to dete guration, a dual-signature Pl th this requirement, how a 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 PSE is no	ot required to	continuously probe to dete	ect a PD signat	ure	Suggestedl	Remedy				
	time when a	PSE is not attempting to de						such that it can be tested or /, but I don't have a solution		w to do this].
	na on involid	PD signature on either Alte	rnativa mav na	rform dataction on the	Response			Response Status C		
		id may perform classificatio			REJEC	T.				
uggestedRemedy	V				The co	mment did	not pro	vide a sufficient remedy and	the comment	resolution aroup could
Change as foll								n an appropriate remedy.		
	time when a	o continuously probe to dete PSE is not attempting to de			C/ 145 Yseboodt, I	SC 145	.2.6.4	P 153 Philips Lighting	L 17	# <u>r01-182</u>
		PD **detection** signature mative, and if valid may per			Comment 7 TOPIC	<i>ype</i> EI SIGNATU		Comment Status A		Editori
Response ACCEPT.	F	esponse Status C			When r When r signatu	referring to referring to re PD, or F	detecti signatu PD sign	nsistencies in the word 'sign on, we should talk about "PE rre configuration, we should ature configuration". tances of the ambiguous "PE	detection signed detection signed by the say "sing	
						shall acce d in Table		valid PD signature a pairset	with all of the	characteristics
					Suggestedl	Remedy				
					"A PSE		ept as a	valid PD **detection** signa n Table 145-9."	ture a pairset	with all of the
					Response			Response Status C		
								Response Status C		

C/ 145	SC 145.2.6.5	P 153	L 35	# r01-183	C/ 145 S	C 145.2.6.7	P 154	L 20	# r01-185
Yseboodt, L	ennart	Philips Lighting			Yseboodt, Len	nart	Philips Lighting		
Comment T	ype ER	Comment Status A		Editorial	Comment Type	TR	Comment Status A		4PI
These of When re signatur The dra "The PS	eferring to detec eferring to signa re PD, or PD sig aft contains 12 in SE shall reject a	onsistencies in the word 'signa tion, we should talk about "PD ture configuration, we should en nature configuration". stances of the ambiguous "PD pairset within a link section as of the following characteristics	detection sign either say "sing) signature". having an inva	le-signature PD, dual- alid signature, when	pairsets pr to as 4PID pairsets, th and the res variable po A PSE sha	for to applyin 4PID shall I re result of co sults of the P 4pair_cand Il not apply 4	whether an attached PD is a c g operating voltage to both pa be determined as a logical func- onnection check as described ower via MDI TLV described ir l, defined in 145.2.5.4.	irsets. This def ction of the def in 145.2.6.1, m n 79.3.2. It sha as detected a v	termination is referred tection state of both nutual identification, Il be stored in the valid detection
SuggestedF	-	of the following characteristics			Signature	n botn pans			no are met.
Change "The PS	e as follows: SE shall reject a re, when the pair "	pairset within a link section as set exhibits any of the followir <i>Response Status</i> C			First shall Second sh is pass/fail Third shall Fourth sha Also, the te	all: untestabl) : contradicte II: Hurray! A ext refers to "	the shall is to determine some e because unclear (again a de d by the state diagram (but we valid shall statement. the results of the Power via M	etermination wi	ND untestable.
C/ 145	SC 145.2.6.5	P153	L 35	# r01-184	longer has	influence on	pd_4pair_cand.		
Yseboodt, L Comment T	ype ER	Philips Lighting <i>Comment Status</i> A pairset within a link section as	having an inv	Editorial	signature o	peration.	only follows this text partly, as nake state diagram changes, I		·
		of the following characteristics			SuggestedRen	nedv			
"A PSE specifie What is	shall accept as d in Table 145-9 a pairset withir	the text for valid: a valid PD signature a pairset ." a link section" ? n also exists in Clause 33.	with all of the	characteristics	Replace by "PSEs det prior to ap 4PID. 4PIE connection	r: ermine wheth olying operat) is a logical check as de	her an attached PD is a candid ing voltage to both pairsets. Th function of the detection state scribed in 145.2.6.1, and mutt I in 145.2.5.4, contains the res	nis determination of both pairset ual identification	on is referred to as s, the result of on. The variable
The PS Let's try	E is not in the bu to mimick the '\	usiness of rejecting pairsets or ralid' text which makes at least	link sections t some sense.				I-pair power unless the PSE ha		
SuggestedF	•				Response		Response Status C	0	
"The PS		an invalid detection signature as defined in Table 145-10:"	e, a pairset whi	ch exhibits any of the	ACCEPT.				
Dosnonso		Response Status C							
Response									

C/ 145 S	C 145.2.7	P155	L 7	# r01-186	C/ 145	SC 145	5.2.7.1	P 158	L 27	# r01-188
Yseboodt, Lenr	nart	Philips Lighting	g		Yseboodt,	Lennart		Philips Lighti	ng	
Comment Type	E	Comment Status A		Editorial	Comment	Туре Е	E	Comment Status A		Editori
powering u arrive at ov	sing a single er-margined	may use VPSE = VPort_PSE pairset, or RChan = RCh/2 v values as shown in Table 14 nfusing here, because one so	when powering 5-11."	using two pairsets to	CLASS CLASS	S_EV1_LC S_EV1_LC	CE_PRI, 0 CE_4PID_	state CLASS_EV1_LCE, 0 CLASS_EV1_LCE_SEC, _SEC, or pairset VClass, subject	CLASS_EV1_LC	CE_4PID_PRI, or
SuggestedRem	nedy				Do not	use "in th	e state" v	when describing capital st	atenames.	
Change to:		may use VPSE = VPort PSE	-2P min and P(han – RCh when	Suggested					
powering u	sing 2-pair, o	or RChan = RCh/2 when pow own in Table 145-11."			Chang	e to:	ie in CLA	SS_EV1_LCE, CLASS_E		SS EVI LCE PRI
Response ACCEPT.		Response Status C			CLASS	S_EV1_LC	E_SEC,	CLASS_EV1_LCE_4PID or pairset VClass, subject	PRI, or CLASS	_EV1_LCE_4PID_SEC,
	C 145.2.7	P155	L 39	# -04 407			36, 44, 4	47 and 52 remove "in the	state".	
CI 145 S Yseboodt, Lenr		P 155 Philips Lighting		# r01-187	Response ACCE			Response Status C		
Comment Type		Comment Status A		PD Power		00.445		D400	1.40	# 04.400
"Measurem	ients should	be averaged using any slidin	g window with a	width of 1 s."	C/ 145 Yseboodt,	SC 145	5.2.7.2	P 160 Philips Lighti	L10	# r01-189
	omment i-79	against D3.0 wanted to remo	ove this sentend	e with the following	Comment		R	Comment Status A	ing	Editoria
That whole	section is in	fter the definition of PClass a formative in nature.	and PClass-2P.			margin is t		num amount of power the	PSE must add t	
	is a should ? nents of wha	t ? PClass is a capability.			Word '	must' is no	ot permit	ted.		
		irement of a PSE is encoded	l in ICon-2P.		Suggested					
	o find the app with a sliding	propriate place to indicate that window.	at PSE output p	ower capability is to be	Replac	ce by: margin is t	the minin	num amount of power the	PSE adds to P	Autoclass in order to
SuggestedRem	-				Response	0		Response Status C		
Output 'pov	ver' is encod	ed in ICon-2P, hence it make	es sense to put	a sentence there.	ACCE	PT.				
- In 145.2.8 "PSEs sha	l be able to	nce I, line 43, after: source I Con-2P , the current quation (145-8)."	the PSE suppo	rts on each powered						
	hould ha ma	en e	w with a width a	f 1 second "						
"ICon-2P s		asured using a sliding window	w with a with the	i i secolia.						
Response ACCEPT.		Response Status C	w with a width o							

C/ 145 SC 145.2.7.2 Yseboodt, Lennart	P 160 Philips Lightin	L 32	# r01-190	C/ 145 Yseboodt,		45.2.8.1	P 163 Philips Light	L 43 ing	# r01-192
Comment Type TR Autoclass minimum marg resistance and operating of The current curve fits lead New information obtained the July plenary) allow for SuggestedRemedy Adopt yseboodt_02_1117	Comment Status A n was calculated with over conditions. to excessive margin bein- during recent testing (by U optimized curve fits.	rly pessimistic a	or cable heating.	Comment "A PSE pairset We cha It could not the Given t refer to Suggested Revert	Type that ha s while anged th be infe case. that PO just PC <i>Remedy</i> to:	in a power his from "F rred that t WER_UP WER_Of	Comment Status A ed Class 5 to 8 to a single- r on state." POWER_ON" to the less e this includes the SEMI_PV DATE is a state in which n	signature PD sha explicit "a power o VRON_PRI/SEC to physical time is	on state". states which is for sure s spent, we are safe to
Adopt changes shown in http://www.ieee802.org/3/ modification: Have Table 145-15 be 3 n Class 1-4 0.5 Class 5-6 0.75 Class 7-8 1.25		.02_1117_final.	pdf with the following		s while PT. SC 1	45.2.8.2		L 51	# <u>r01-193</u>
Cl 145 SC 145.2.8 Yseboodt, Lennart Comment Type E In Table 145-16 item 6 "To POWER UP per the assig Statename is with an undo SuggestedRemedy Change to: "Total output current of bo assigned Class"	ned Class" erscore.	pairs of the sar		Comment "VPort pairs w on stat Multiple Suggested Chang "VPort	<i>Type</i> _PSE_c ith the s e." e power <i>Remed</i> y e to: _PSE_c ith the s	E liff, as def same pola on states	Comment Status A ined in Table 145-16, is the irity, at no load condition, v a, do not use "the power or ined in Table 145-16, is the irity, at no load condition, v	e maximum volta vhen operating o n state". e maximum volta	ver 4 pairs, in the power
0	Response Status C			Response ACCEF			Response Status C		

C/ 145 SC 145.2. Yseboodt, Lennart	8.4 P164 Philips Lighting	L 17	# r01-194	Cl 145 SC 145.2.4 Yseboodt, Lennart	3.5 P165 Philips Lightin	L 38 g	# r01-197
Comment Type E	Comment Status A		Editorial	Comment Type ER	Comment Status A		Editorial
There is a double pe	eriod on this line (one of which sub	script).		"is the minimum cur defined in Equation	rent due to unbalance effects a l	PSE must suppo	ort on a pairset as
SuggestedRemedy					(145-12)		
Fix.				Must no good.			
Response	Response Status C			SuggestedRemedy			
ACCEPT.				"is the minimum cur in Equation (145-12)	rent due to unbalance effects a l "	PSE supports or	a pairset as defined
C/ 145 SC 145.2.	8.5 <i>P</i> 164	L 23	# r01-195	Response	Response Status C		
Yseboodt, Lennart	Philips Lighting			ACCEPT.			
Comment Type E	Comment Status A		Editorial				
pairsets and are def	2P-other are the currents on the pa ined in Equation (145-5) and in Eq	uation (145-6		<i>Cl</i> 145 <i>SC</i> 145.2. Yseboodt, Lennart	3.5.1 P166 Philips Lightin	L 26 g	# r01-198
"of the two pairsets"	does not add anything, remove th	is part.		Comment Type E	Comment Status D		Editorial
SuggestedRemedy Change to:				In table 145-17 whic maximum.	h defined IUnbalance-2P the col	umn "Value" do	es not convey this is a
	2P-other are the currents on the pa	airs with the s	ame polarity and are	SuggestedRemedy			
•	(145-5) and in Equation (145-6)."			Change column nam	ne to "Max"		
Response ACCEPT.	Response Status C			Proposed Response	Response Status Z		
ACCEPT.				REJECT.			
C/ 145 SC 145.2. Yseboodt, Lennart	8.5 P165 Philips Lighting	L 10	# r01-196	This comment was \	VITHDRAWN by the commente	r.	
Comment Type TR	Comment Status A		PSE Power	This comment was \	WITHDRAWN before the start of	comment resol	ution.
	ingle-signature PD over 4 pairs, a nt of I Unbalance-2P over one of th						
	s required to support is ICon-2P-us e current that occurs under worst-o	,					
SuggestedRemedy							
Replace I_Unbalance	e-2P by ICon-2P-unb in the quote	d sentence.					
Response	Response Status C						

ACCEPT.

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

C/ 145 SC 145.2.8 Yseboodt, Lennart	5.1 P166 Philips Lightin	L 27 g	# r01-199	C/ 145 Yseboodt, L	SC 145.2.8 ennart	.5.1	P 167 Philips Lightir	L 19 ng	# r01-201
Comment Type TR	Comment Status D		Pres: Yseboodt7	Comment 7	vpe ER	Comm	ent Status A		Editorial
changes to RSource This leads to the 'extr	a' unbalance margin being ass neet their respective unbalance	igned to both th	e PSE and the PD.	powere 'allowat	d pairs of the le' is not the	same polari best word, w		pported'.	e resistance in the
I suspect we need up	dates to RSource and RLoad.			Suggested		w 'supported	l' throughout the dr	oft	
SuggestedRemedy				•	allowable L		0	an.	
Adopt yseboodt_07_0)117_unbalance.pdf			Response		Respon	nse Status C		
Proposed Response	Response Status Z			ACCEF	Т.				
REJECT.				C/ 145	SC 145.2.8	5 1	P167	L 34	# r01-202
This comment was W	ITHDRAWN by the commente	er.		Yseboodt, L			Philips Lightir	• •	
This comment was w	thdrawn before the start of cor	nment resolutio	n.	Comment 7 "Table"			ent Status A es of resistance use	ed to compute RI	Editorial oad_min and
C/ 145 SC 145.2.8 Yseboodt, Lennart	5.1 P166 Philips Lightin	L 28 g	# r01-200	Equatio	nax accordin n (145-14), E of resistance	quation (145	5-15)."		
Comment Type ER	Comment Status A		Editorial	Posista	nces is futile.				
	maximum pair unbalance curr	ent in the PSE	unbalance section.						
	ed Class 1 to 4 is "ICon". planation as exists for ICon-2P	uph in Table 1	15 16	SuggestedF Change	-				
			45-10.	0		ies the resis	tance values used	to compute Rloa	d_min and Rload_max
	4" that says: "Unbalance curre	nt for these ass	igned Classes is not	accordi Equatic	ng to n (145-14), E	quation (145	5-15)."	·	
restricted."				Response		Respon	nse Status C		
Response	Response Status C			ACCEF	т.				
ACCEPT.									

C/ 145 SC 145.2.8.5.1	145 SC 145 2 8 5 1 P167 / 35 # [r01							
Yseboodt, Lennart	P 167 Philips Lighting	L 35	# r01-203	Cl 145 S Yseboodt, Len	SC 145.2.8.6 nart	P 169 Philips Li	L 5 ahting	# r01-205
	nment Status A		Editorial	Comment Typ	e T	Comment Status A	0 0	PSE Inrus
"The load resistances Rload_n resistances Rload1_min and R as shown in Figure 145-22, to Strange ending in last part.	load2_min, and Rload	d1_max and Ric	ad2_max respectively,	state on b power up	oth pairsets w	ed Class 5 to 8 to a sing ithin TInrush max, starti ere the second pairset tr	ng with the first pair	set transitioning into the
SuggestedRemedy Change to: "The load resistances Rload_n resistances Rload1_min and R				"a power i	ip state" is mi	e one and only POWER sleading as there is only lently into a 'power up' c	/ one POWER_UP s	state, however each
as shown in Figure 145-22, suc				SuggestedRer	nedy			
ACCEPT IN PRINCIPLE.	onse Status C			on both pa	t have assign airsets within ⁻	ed Class 5 to 8 to a sing IInrush max, starting with nd pairset transitions to	th the first pairset tra	ansitioning into power
Change to: "The load resistances Rload_n resistances Rload1_min and R as shown in Figure 145-22, so	load2_min, and Rload the power sink can be	d1_max and Ric	ad2_max respectively,	Response ACCEPT.		Response Status C	· · · ·	
incide the Dleed here source Dr	lass_PD."				SC 145.2.8.6	P169	L 20	# r01-206
inside the Pload box equals Pc							ahtina	
This resolution is identical to co	omment #445.			Yseboodt, Len	nan	Philips Li	ginnig	
This resolution is identical to co Cl 145 SC 145.2.8.5.1	omment #445. P 167 Philips Lighting	L 36	# r01-204	Comment Typ	e E epicting the IF	Philips Li <i>Comment Status</i> A PSEIT-2P should stop at		<i>Editori</i> Figure 145-23, but it
This resolution is identical to co Cl 145 SC 145.2.8.5.1 (seboodt, Lennart	P167 Philips Lighting ament Status A	1	Editorial	Comment Typ The line d runs past SuggestedRer	e E epicting the IF it. <i>nedy</i>	Comment Status A		
This resolution is identical to control of the second state of the	P167 Philips Lighting ament Status A 4), Equation (145-15).T	1	Editorial	Comment Typ The line d runs past SuggestedRer	e E epicting the IF it. <i>nedy</i>	Comment Status A PSEIT-2P should stop at		
This resolution is identical to control of the second structure of the second	P167 Philips Lighting Inment Status A 4), Equation (145-15).T njunction.	he load resista	Editorial	Comment Typ The line d runs past SuggestedRer Shorten lir Response	e E epicting the IF it. <i>nedy</i>	Comment Status A PSEIT-2P should stop at the 75ms mark.		
This resolution is identical to control of the second state of the	P167 Philips Lighting Inment Status A 4), Equation (145-15).T njunction.	he load resista	Editorial	Comment Typ The line d runs past SuggestedRer Shorten lir Response	e E epicting the IF it. <i>nedy</i>	Comment Status A PSEIT-2P should stop at the 75ms mark.		

C/ 145 SC 145.2.8.6 P169 L 25 C/ 145 SC 145.2.8.6 P169 L 44 # r01-210 # r01-207 Yseboodt, Lennart Yseboodt, Lennart Philips Lighting Philips Lighting Comment Type E Comment Status A **F**ditorial Comment Type T Comment Status A PSF Inrush "Figure 145-23--Per pairset inrush transient limits" "The minimum | Inrush and | Inrush-2P current capability as defined in Table 145-16 applies when VPSE exceeds 30 V. During a power up state, the minimum supported Improper description, this Figure depicts I PSEIT-2P which is the PSE inrush maximum current is as follows:" limit. This is an exception to the shall on line 8, but it introduces new minimums. As such, this SuggestedRemedy should be a requirement also. Change title to "Per pairset PSE inrush maximum current limit" The requirements that follow are hard to parse. Response Response Status C SuggestedRemedy ACCEPT IN PRINCIPLE. Replace page 169, line 44-52 as follows: "The minimum I Inrush and I Inrush-2P current capability as defined in Table 145-16 "limit" hints at implementation. This is really just the maximim current. applies when VPSE exceeds 30 V. During a power up state, PSE shall support: Change title to "Per pairset PSE inrush maximum current" - when powering a single-signature PD, a minimum IInrush of 5mA when VPSE is between 0V and 10V, and 60mA when VPSE is between 10V and 30V. C/ 145 SC 145.2.8.6 P169 L 30 # r01-208 - when powering a dual-signature PD, a minimum IInrush-2P of 5mA when VPSE is between 0V and 10V, and 60mA when VPSE is between 10V and 30V." Yseboodt, Lennart Philips Lighting Response Response Status C Comment Status A Comment Type **TR** PSF Inrush ACCEPT IN PRINCIPLE. "Ilnrush-2P" is a range for dual-signature, thus the maximum value should be used. SuggestedRemedy Replace page 169, line 44-52 as follows: "The minimum I Inrush and I Inrush-2P current capability as defined in Table 145-16 Change "Ilnrush-2P" to "Ilnrush-2P max". 5 occurances. applies when VPSE exceeds 30 V. Response Response Status C During a power up state, the PSE shall support: - when powering a single-signature PD, a minimum linrush of 5mA when VPSE is between ACCEPT. 0V and 10V, and 60mA when VPSE is between 10V and 30V. - when powering a dual-signature PD, a minimum linrush-2P of 5mA when VPSE is C/ 145 SC 145.2.8.6 P169 L 39 # r01-209 between 0V and 10V, and 60mA when VPSE is between 10V and 30V." Yseboodt, Lennart Philips Lighting C/ 145 SC 145.2.8.8 P170 L 8 # r01-211 Comment Type T Comment Status A PSF Inrush Yseboodt, Lennart Philips Lighting "is the maximum value of I Inrush-2P or I Inrush as defined in Table 145-16" Comment Type E Comment Status A Editorial We got rid of this dual equation for Ilnrush-2P and Ilnrush. Now solely applies to Ilnrush-2P. Subclause 145.2.8.8 starts as follows: SuggestedRemedy "-- For Type 3 PSEs. Figure 145-24. Equation (145-17) and Equation (145-19) apply. -- For Type 4 PSEs, Figure 145-25, Equation (145-18) and Equation (145-20) apply." Remove "or Ilnrush" from guoted sentence. Response Response Status C This text should come after the first paragraph. ACCEPT. SuggestedRemedy Move dashed list to after the first paragraph. Response Response Status C ACCEPT.

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

<i>Cl</i> 145 <i>SC</i> 145.2.8.8 Yseboodt, Lennart	P170 L13 Philips Lighting	# r01-212	C/ 145 SC 145.2 Yseboodt, Lennart	2.8.9 P 172 Philips Lightir	L 32 ng	# r01-213
Comment Type E Co	omment Status A	PSE Power	Comment Type TR	Comment Status A		PSE Power
lowerbound template in Fig	from the PI if the PI current meets or ure 145-24 and Figure 145-25."			6 / D3.0. which proposed a chang changed in the room, but we failed v in contradiction:		
, , , , , , , , , , , , , , , , , , , ,	plies to a given PSE. Change 'and' to	or.	"The specification	for T Off in Table 145-16 shall ap	olv to the discha	arge time from
	from the PI if the PI current meets or ure 145-24 or Figure 145-25."	exceeds the "PSE	VPort_PSE-2P mir pairset. In addition applied. T Off start	n to V Off of a pairset with a test r , it is recommended that the pairs s when V PSE drops 1 V below th	esistor of 320 k set be discharge ne steady-state	Ohm attached to that d when voltage is not value after the
Response Re ACCEPT.	sponse Status C		alt_pwrd_pri and a V PSE <= V Off ma	<pre>lt_pwrd_sec variables are cleared ax."</pre>	I (see Figure 14	5-13). T Off ends when
ACCELL.			SuggestedRemedy			
				ntence to: for TOff in Table 145-16 shall app a pairset with a test resistor of 32		
				ntence "T Off starts when V PSE of pri and alt_pwrd_sec variables ar		
			Change middle se "In addition, it is re not applied."	ntence as follows: commended that the pairset be d	ischarged when	operating voltage is
			Response	Response Status W		
			ACCEPT IN PRIN	CIPLE.		
				nce "T Off starts when V PSE dro pri and alt_pwrd_sec variables ar		
			Change middle se "In addition, it is re not applied."	ntence as follows: commended that the pairset be d	ischarged when	operating voltage is

C/ 145 SC 145.2.8.9 Yseboodt, Lennart	P 172 Philips Lighting	L 37	# r01-214	Cl 145 SC Yseboodt, Lenn	C 145.2.8.12	P 173 Philips Light	L8	# r01-217
Comment Type E	Comment Status A		PSE Power	Comment Type		Comment Status R	ing	PSE Pow
"TOff ends when VPSE Voff is a max.			T SE T OWER	"Type 4 PS	Es shall not	source more power than P g window with a width up to		
SuggestedRemedy Change to: "TOff ends when VPSE	<= VOff."			smaller than	n 4 seconds	than PType for up to 4 sec to be used. Also this does truct as for PPeak.		s any sliding window
Response	Response Status C			SuggestedRem	edy			
ACCEPT.					Es shall not	source more power than P		fined in Table 145-16,
C/ 145 SC 145.2.8.10		L 40	# r01-215	e e	an 4 second	ls, with a maximum duty cy	/cle of 1%."	
Yseboodt, Lennart	Philips Lighting			Response		Response Status U		
Comment Type T	Comment Status A		PSE Power	REJECT.				
SuggestedRemedy Remove this sentence. Response ACCEPT.	against Draft 3.0 has not beer Response Status C		-					
C/ 145 SC 145.2.8.10		L 44	# r01-216					
Yseboodt, Lennart	Philips Lighting							
Comment Type TR	Comment Status A		PSE Power					
	hall be equal or less than V Off D, IDLE, or ERROR_DELAY."	, as defined	in Table 145-16, when					
Also applies to BACKOI Or does that mess up d	FF state. etection by the other PSE ?							
SuggestedRemedy Add BACKOFF to the list	sted states.							
Response	Response Status C							

ACCEPT.

C/ 145 SC 145.2.10 P 174 L 10 # [r01-218] Yseboodt, Lennart Philips Lighting	C/ 145 SC 145.2.11 P 174 L 18 # [r01-219] Yseboodt, Lennart Philips Lighting Philips Lighting Philips Lighting Philips Lighting
Comment Type ER Comment Status A Editorial Subclause 145.2.10 "PSE power removal" contains just one sentence: "Figure 145-17, Figure 145-18, and Figure 145-19 show the PSE monitor state diagrams. These state diagrams monitor for inrush current and the absence of the Maintain Power Signature (MPS)." It is followed by 145.2.11 which describes MPS.	Comment Type ER Comment Status D Editoria "The specification for T MPS in Table 145-16 applies only to the DC MPS component." Remnant from the past: we only have DC MPS in Clause 145, which we just call "MPS". SuggestedRemedy - Remove quoted sentence
In the base standard, the MPS requirements were a subclause of PSE power removal and subdivided in to AC and DC MPS. The current 145.2.10 as-is makes little sense. 145.2.11 (on MPS), does a poor job of introducing the topic. SuggestedRemedy	- Search and replace "DC MPS" by "MPS" in Clause 145 Proposed Response Response Status Z REJECT. This comment was WITHDRAWN by the commenter.
 Delete 145.2.10 Add as new first paragraph to 145.2.11: "A PSE is required to remove power when a powered connected PD no longer draws a minimum amount of current. This is referred to as the 'Maintain Power Signature'. The PSE state diagrams in Figure 145-17 and Figure 145-18 monitor for the absence of MPS." 	This comment was withdrawn prior to the start of comment resolution. CI 145 SC 145.3 P175 L 24 # [r01-220] Yseboodt, Lennart Philips Lighting Philips Lighting Editorial Comment Type E Comment Status A Editorial
Response Response Status C ACCEPT IN PRINCIPLE. - - Delete 145.2.10 - - Add as new first paragraph to 145.2.11: - "A PSE removes power when a connected PD no longer draws a minimum amount of current. This is referred to as the 'Maintain Power Signature'. The PSE state diagrams in Figure 145-17 and Figure 145-18 monitor for the absence of MPS."	"Additional electrical specifications that apply to the PD are in 145.4." SuggestedRemedy "Additional electrical specifications that apply to the PD are **specified** in 145.4." Response Response Status C ACCEPT.

C/ 145 SC 145.3.2	P176	L 34	# r01-221	C/ 145	SC 145.	3.3.4	P 178	L 52	# r01-224
Yseboodt, Lennart	Philips Lighting			Yseboodt, L	ennart		Philips Lighting		
Comment Type ER	Comment Status A		Editorial	Comment T	/pe E	Comn	nent Status A		Editorial
pair configuration as de	of accepting power in any valid fined in Table 145-19." vrong, should be Table 145-20.		ration and any valid 4-			variable indication. Se	ates whether the PD pe e 145.3.6.2."	erforms an Auto	oclass request during
SuggestedRemedy				That is a	a very poo	r description o	f what this variable doe	es.	
Change to:				SuggestedF	emedy				
5	of accepting power in any valid fined in Table 145-20."	2-pair configu	ration and any valid 4-		riable indi		vill draw P_Autoclass_	PD in the Autoo	class time window
Response	Response Status C				iching PO	WERED. See	145.3.6.2."		
ACCEPT IN PRINCIPL	E.			Response		•	nse Status C		
Change to:				ACCEP	T IN PRIN	ICIPLE.			
pair configuration as de		2-pair configu	ration and any valid 4-		riable indi	cates if a PD d ED. See 145.3	raws P_Autoclass_PD 8.6.2.") in the Autoclas	ss time window after
fix link which is broken.				C/ 145	SC 145.	3.3.3	P180	L 52	# r01-225
C/ 145 SC 145.3.2	P176	L 49	# r01-222	Yseboodt, L		Clote	Philips Lighting	-02	101 220
/seboodt, Lennart	Philips Lighting			Comment T		Comp	nent Status A		Editoria
Comment Type ER	Comment Status A	Editorial	-		abetically corr			Eulional	
	"The PD shall withstand any voltage from 0 V to 57 V applied any of the valid					abelically com	ect place.		
	n Table 145-20 indefinitely with			SuggestedF					
Missing word 'por'				Move "\	'PD" after	"VOn_PD".			
Missing word 'per'.				Response		Respo	nse Status C		
SuggestedRemedy		م معالمها ۱۹۹۰ - ۲۰	*	ACCEP	Т.				
	d any voltage from 0 V to 57 V a n Table 145-20 indefinitely with		2		SC 445	2.2.6	D494	/ 50	# -04 000
Ū			n damayo.	C/ 145	SC 145.	3.3.0	P181	L 50	# r01-226
Response ACCEPT.	Response Status C			Yseboodt, L			Philips Lighting		
AUGEFT.				Comment T			nent Status A		Editorial
C/ 145 SC 145.3.3.3 Yseboodt, Lennart	P 178 Philips Lighting	L 26	# r01-223				signed_class returns the variables section 14		_assigned_class.
Comment Type E	Comment Status A	with a appace in	Editorial				ept in perfect sync or to the variable than re		mbiguity.
	t_PD max" is the only variable v	with a space if	i me name.	SuggestedF	emedy				
SuggestedRemedy				••		line 50 throug	h page 182 line 5 by:		
Change name to "VRes	set_PD_max" and update usage	e in PD state	diagrams.	"pse_as	signed_cla	ass: See 'pse_	assigned_class' define	ed in 145.3.3.4.	"
Response	Response Status C			Response		Respo	nse Status C		
ACCEPT.				ACCEP	Т.				
	d ER/editorial required GR/ge							ID r01-226	Page 59 of 130

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 145.3.3.7 Yseboodt, Lennart	P 184 Philips Lightir	L 30	# r01-227	<i>Cl</i> 145 Yseboodt, L	SC 145.3.3.8	B P 185 Philips Lighting	L 49	# r01-229
Comment Type TR There is a possibility for ir A PD can exit the INRUSI If it does so while the PSE loops through NOPOWEF	Comment Status A ntentional abuse of the NC H state at any time less th E is still in inrush, and VPE	POWER state i an 50ms to PO 0 is less than Vo	VER_DELAY.	Comment Ty Variable SuggestedR Change	/pe T "VReset_PD" <i>emedy</i> variable name	Comment Status A needs to be updated to match to "VReset_PD_max" and updated	0 0	
It is PD undemotion essen To close this hole we nee SuggestedRemedy - Remove the arc from PC	d to remove the arc from I	_	Y to NOPOWER.	signatur Response ACCEP Cl 145		name in statediagram. Response Status C P186	L12	# r01-230
- Same fix in the dual-sign				Yseboodt, L		Philips Lighting	L 1 Z	# 101-230
Response ACCEPT IN PRINCIPLE. adopt changes shown in	Response Status C			Comment T See i-13	vpe TR	Comment Status A) which removed pd_current_lim	nit for single-si	PD SI gnature.
http://www.ieee802.org/3/	bt/public/nov17/yseboodt_	_08_1117_final.j	odf	SuggestedR	emedy			
C/ 145 SC 145.3.3.8	P 185	L 30	# r01-228	Remove diagram	. – –	mit_mode(X) in 145.3.3.9 and re	emove it's use	in the dual-sig state
Yseboodt, Lennart	Philips Lightir	ng		Response		Response Status C		
Comment Type TR	Comment Status A		PD SD	ACCEP	Г.			
Comment i-133 against D also applies to dual-sig.	3.0 only instructed to mak	e changes to si	ngle-signature, but fix	<i>Cl</i> 145 Yseboodt, L	SC 145.3.3.9	P186 Philips Lighting	L 17	# <u>r01-231</u>
	no mention in our spec the			Comment T	/pe T s "pd_dll_capa	Comment Status A able_mode(X)" and "pd_dll_enal	ble_mode(X)"	PD Si do not need the
It is compounde section,	0.5V caused by the class ed by the PD state diagrar	n listing VMark_		SuggestedR Change	<i>emedy</i> variables to "p	d_dll_capable" and "pd_dll_ena Mode(X)" from descriptions.	able".	
implying the va SuggestedRemedy - Move VMark_th, VOff_P (variables) - Change VReset PD to V		-	-	Response ACCEP		Response Status C		
6 =	Response Status C							

C/ 145	SC 145.3.3.11	P 188	L 26	# r01-232	C/ 145	SC 145.3.8	P 198	L 10	# r01-235
Yseboodt, Ler	nnart	Philips Lighting			Yseboodt, Ler	nart	Philips Lightir	ng	
Comment Typ	De ER	Comment Status A		Editorial	Comment Typ	e TR	Comment Status A		PD Powe
pse_assig This varia A double	gned_class_m able is also def definition need	_pse_assigned_class_mode(ode(X). ned in the variables section 1 is to be kept in perfect sync c v to point to the variable than	45.3.3.9. r it can lead to		1 parame That is fal not on Ty	ter that seem se, like other be. bre, the value	d the PD Type column in Tabl ned to depend on Type: V_Ov r power related parameters, th e for "Type 3" aka "Class 1-6"	rerload-2P. nis also depends	on assigned Class,
	page 188 line 2	6 to 33 by: ode(X): See 'pse_assigned_	class_mode(X)	defined in 145.3.3.9."	Replace r - Single-s	ows: gnature PD,	Class 1-6 and dual-signature Class 7-8 and dual-signature		
Response ACCEPT.		Response Status C					ad into a single-signature and of text in the Parameter cell.	dual-signature s	subitem in order to
C/ 145	SC 145.3.3.12	P190	L 19	# r01-233	Response		Response Status C		
rseboodt, Ler		Philips Lighting	-	# 101 233	ACCEPT.				
Comment Typ	pe T	Comment Status A		PD SD	C/ 145	SC 145.3.8	P 199	L 40	# r01-236
		e statement: "pd_max_powe			Yseboodt, Ler	nart	Philips Lightir	ng	
		iode(X), pd_req_class_mode r_level_mode(X)" should be '		class_mode(X)"	Comment Typ	e T	Comment Status A		PD Pow
SuggestedRe			pee_accignea_			-29, items 15			
Change to		wer_mode(X) = min(pse_assi ".	gned_class_m	ode(X),	and	0	IMDI_POWER states for sing		
Response		Response Status C			MDI POV	√FR states h	aven't existed for a while now		
ACCEPT.					SuggestedRe				
C/ 145	SC 145.3.3.12 nnart	P 190 Philips Lighting	L 21	# [r01-234	Replace it	em 15 descr gnature PD c	iption by: capacitance while in INRUSH,	, POWER_DELA	AY, or POWERED"
Comment Typ	pe T	Comment Status A		PD SD		-	irset capacitance while in INF	RUSH, POWER_	DELAY, or POWERED
	NOPOWER" th	e variable "pd_max_power(X)" is missing the	e "mode".	Response		Response Status C		
In state "N					ACCEPT.				
SuggestedRe	-	max_power_mode(X)".							

C/ 145 SC 145.3.8	P 200	L13	# r01-237		5.3.8.2.1	P 201	L 37	# r01-239
seboodt, Lennart	Philips Lighting)		Yseboodt, Lennart		Philips Lighti	ng	
omment Type E	Comment Status A		Editorial	51		mment Status A		PD Powe
Item 18 in Table 145-29 Also the numbering is of	comprises of two different sy	ymbols.		consumption, w	ith precender	meters that govern it's ace for the lesser value		verage power
SuggestedRemedy				- P_Autoclass_F - PDMaxPower\				
Split VOn_PD and VOff	_PD into two different items (18 and 19).		- PClass_PD	alue			
Response ACCEPT.	Response Status C			A successful DL	L negotiation	disables the P_Autoc	lass_PD limit.	
C/ 145 SC 145.3.8	P200	L 16	# r01-238	The input avera	ge power exc	eptions currently do no	ot take PDMaxPo	owerValue into account.
/seboodt, Lennart	Philips Lighting		# 101-230	In 145.3.8.2 we 145.3.6.2).	should cluste	r all of the PD power r	equirements (Au	toclass currently sits in
Comment Type TR	Comment Status A		Pres: Yseboodt8	SuggestedRemedy				
This is in direct contradi	/Off_PD is a range from 30V ction with the peak and trans	ient specificati	on, both of which are	- Change:	ature PDs as	signed to Class 6 or C	lass 8, when add	litional information"
VOff_PD range. In addition, per the state	he PD to continue operating, e diagram, drawing peak pow		0			signed to Class 6 or C tional information"	lass 8, and PDM	axPowerValue set to
NOPOWER state, which We can't just change the guaranteed to work in th	e max value though, as for no	ormal operatior	a PD is only	to: "For dual-signat	ure PDs assi			nation" lue_mode(X) set above
Proposed:				355, when addit	ional informa	tion"		
30V - 36V = Voff_PD == 36V - VPort-2P min ==>	=> PD shall turn on in this rat => PD shall turn off in this rar > PD may turn off if condition PD shall stay on in this range	ige persists longe	r than TCUT min	PDMaxPowerVa averaged over a	average poweralue in 145.5.	er, P Class_PD or P C 3.3.3, including any pe		
SuggestedRemedy				to: "The maximum	average pow	er, P Class_PD or P C	lass PD-2P in T	able 145-29, or
	to 36 volt. (# This is the mini 01,line 6: "The PD shall turn			PDMaxPowerVa	alue in 145.5.		s_PD in 145.3.6.	2**, including any peak
	the voltage in the range of V0 in".	Off_PD to VPor	t_PD-2P min persists		ot draw more	power than P Autoclas		
Response	Response Status C			classification as		vel, up to the PD reque	sieu Ciass, infol	iyn Dala Link Layer
ACCEPT IN PRINCIPLE	.							
adopt changes shown ir http://www.ieee802.org/	1 3/bt/public/nov17/yseboodt_(08_1117_final.p	odf	below V Reset_	ot draw more PD max , unl	power than P Autoclases the PD successful	ly negotiates a h	igher power level, up to
This resolution is identic	-1.1			the PD requeste	eu Ciass, trifo	ugh Data Link Layer c	assincation as d	enneu III 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 successfully negotiates a higher power level through Data Link Layer classification as defined in 145.5." Response Response Status C	C/145SC 145.3.8.6P 204L 25# r01-242Yseboodt, LennartPhilips LightingComment TypeTRComment StatusAPres: Yseboodt4
ACCEPT.	During the last meeting it was identified that "Source resistance" and "Source current" are ambiguous and require re-simulation of the transient requirements.
C/ 145 SC 145.3.8.4 P 203 L 39 # r01-240 Yseboodt, Lennart Philips Lighting Philips Lighting Philips Lighting Philips Lighting	SuggestedRemedy Adopt yseboodt_04_0117_pdtransients.pdf
Comment Type T Comment Status A PD Power "These equations may be used to calculate P Peak_PD or P Peak_PD-2P for Data Link Layer 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 PAutoclass_PD." PD Power	Response Response Status C ACCEPT IN PRINCIPLE. adopt changes in http://www.ieee802.org/3/bt/public/nov17/yseboodt_04_0117_final.pdf
Old text combined with new equations = confusion. The equations redefine PPeak_PD based on PDMaxPowerValue. SuggestedRemedy	[Editor's note added after comment resolution completed: There is a typo in the file name. The file used is http://www.ieee802.org/3/bt/public/nov17/yseboodt_04_1117_final.pdf]
Replace text by: "These equations may be used to calculate P Peak_PD or P Peak_PD-2P after Data Link Layer classification and for Autoclass by substituting PDMaxPowerValue with PAutoclass_PD."	Cl 145 SC 145.3.8.9 P 205 L 26 # r01-243 Yseboodt, Lennart Philips Lighting Editoria Comment Type E Comment Status A Editoria "The maximum pair current in a system depends on the assigned Class (see 145.3.6), and Editoria
Response Response Status C ACCEPT.	is defined in Table 145-17." Reference to Table is wrong.
Cl 145 SC 145.3.8.4.1 P 204 L 14 # r01-241 Yseboodt, Lennart Philips Lighting Comment Type T Comment Status A Editorial	SuggestedRemedy Change to: "The maximum pair current in a system depends on the assigned Class (see 145.3.6), and is defined in Table 145-31."
Subclause 145.3.8.4.1 refers to PPort_PD_max to refer to maximum PD power under the conditions in 145.3.8.2.1. This is hard to deduce.	Response Response Status C ACCEPT.
SuggestedRemedy Append sentence at the end: "PPort_PD max refers to the maximum power draw as permitted by 145.3.8.2.1".	
Response Response Status C ACCEPT.	

C/ 145 SC 145.3.8.9 P205	L 26	# r01-244		145.3.8.9	P 206	L 25	# r01-246
Yseboodt, Lennart Philips L	ghting		Yseboodt, Lenna	art	Philips Lighting	9	
Comment Type TR Comment Status A Table 145-31 (Maximum pair-to-pair current ur PD section. Some modifications are needed to make it work	<i>,</i> ,	PD Power cate of 145-17 for the			Comment Status A hall not exceed I Unbalance- t exceed I Peak-2P-unb , as c		
SuggestedRemedy 1. ICon is not a parameter known to the PD. R 2. Add a footnote to assigned Class "1 to 4" th "There is no maximum unbalance current requ 3. By duplicating the Table we get a duplicate Even though the values are the same, we show Rename I_Unbalance-2P to I_Unbalance_PD- Response Response Status CI 145 SC 145.3.8.9 P 205 Yseboodt, Lennart Philips L Comment Type E Comment Status In Table 145-31 the column header "Value" do	at says rement for these ass parameter name. Id give them proper 2P in subclause 145. <i>L</i> 32 ghting	signed Classes." names. 3. # <u>r01-245</u> <i>Editorial</i>	because we Note: values SuggestedReme - To Table 14 Assigned Cla 1 to 4 5 0 6 0 7 0	have local l are I_LIM-2 dy 45-31, add ass PPeak_ .56 .7 .827 .994	E parameter in the PD sectior PD unbalance numbers. 2P minus 2mA. new parameter I_Unbalance_ /alue PD / VPD <i>Response Status</i> C E.		able to clean that up
maximum current. SuggestedRemedy Change header to "Max". Response Response Status C REJECT.			Assigned Cla 1 to 4 5 to 8	ass Ppeak_ ILIM-2P	new parameter I_Unbalance_ /alue PD / VPD - 0.002 ' in 145.3 with "I_Unbalance_	-	
The table is giving you the value of the parameters the current shall not exceed that value. Max d			Cl 145 SC Yseboodt, Lenna Comment Type	145.3.8.9 art E	P 207 Philips Lighting Comment Status A	L 18	# <u>r01-247</u> Editoria
				dy	ows for the currents are miss Response Status C	ing, they are o	drawn in the PSE section.

C/ 145 SC 145.3.9 Yseboodt, Lennart	P 208 Philips Lighting	L 5	# r01-248	C/ 145 Yseboodt, L	SC 145.5 ennart		P 222 Philips Lightin	L 28	# r01-250
Comment Type T	Comment Status A		PD Power	Comment T		С	omment Status A	5	Pres: Ysebood
	- MPS_PD requirement with a stance between the measureme			There is	a basic tin	ning issue	e in DLL power negotiation	ons which is cur	rently not addressed.
We can specify what th SuggestedRemedy Change to: "A PD shall meet the T	his worst-case value is, making MPS_PD requirement with a sase cable resistance between t <i>Response Status</i> C	this shall less eries resistan	s open for interpretation. ice of R_Ch, which	- it mus (through - it mus to lower When a - it mus - it mus	n pd_max_r st wait for th MPS curre PD negotia st wait for th	o the new power) e PSE to nt before ates powe e PSE to ely trigge	ly requested power imm be in sync before it trigg the PSE is ready for it) er UP: be in sync before chang power update to confor	gers power upda ging pd_max_pc	ate (otherwise it can fli
/ 145 SC 145.4.9	P217	L 51	# -04.040	SuggestedF		e request	goes out		
seboodt, Lennart	P 217 Philips Lighting	•••	# r01-249	This iss	,		itoclass DLL issue is add	dressed in	
Comment Type E	Comment Status A		Editorial	2		_			
	dspan PSDs, in meeting either substituted for up to two conne				seboodt_0t		llautoclass.pdf		
I guess PSDs needs to	·	cuon pairs in t	ne rd.	Response ACCEP	T IN PRING		esponse Status C		
SuggestedRemedy Change to:					hanges sho ww.ieee802		public/nov17/yseboodt_0	05_0117_final.p	df
"For a 10GBASE-T mi	dspan PSE, in meeting either o substituted for up to two conne			[Editor's	s note adde	d after co	mment resolution comp	leted:	
Response ACCEPT.	Response Status C			There is http://w			me. The file used is		

C/ 145 SC 145.5	P 222	L 28	# r01-251	THIS FE	SOLUTION IS IDEF	ntical to comment #250.			
Yseboodt, Lennart	Philips Lighting	g		[Editor	's note added a	after comment resolutior	completed:		
Comment Type TR There is a basic conf This is what happens	Comment Status A lict between DLL power negotia	tion and Autocla	Pres: Yseboodt5 ass.			file name. The file used rg/3/bt/public/nov17/ysel		inal.pdf]	
This is what happens				C/ 145	SC 145.5	P 22	2 L 33	# r01-25	52
PD requests Autocla				Yseboodt,	Lennart	Philips	Lighting		
	e Autoclass measurement and	based on this re	educes the power	Comment		Comment Status	-		DLL
budget. DLL is initialized						s advertising a Class 4 s or higher on either Mode			
	grams, the PSE uses a PSE_IN	NITIAL_VALUE	based on the assigned	145.3.0		or nigher on either Mode	support Data Lin	IK Layer classification	(see
At this point the Auto puts in PSEAllocated	class optimization is forgotten PowerValue is the amount of po	after all, whate ower the PSE g	ver power the PSE Jarantees at the PD PI.		tually manage t t Class)	to be inconsistent within	the same senten	nce (class signature	VS
	hen DLL Autoclass is used, rig		surement, the result is	Suggested	Remedy				
	he value in PSEAllocatedPowe			Replac					
	s is that DLL always requires bo nt of Autoclass is that neither pa			"Single	e-signature PDs	s that request Class 4 or either Mode support Dat	higher and dual-	signature PDs that rec	quest
resistance and power		any necessary				Response Status	-	Silication (See 145.5.0	<i>)</i>].
We need a way to in	liante et DLL level that Autoplas	a ia haina uaad	and that the normal	Response ACCE	т	Response Status			
DLL operation is sus	dicate at DLL level that Autoclas	ss is being used	and that the normal	ACCE	F1.				
Ideally what I would v	vant is that a PD or PSE can, at	t any time, switc	h out of this mode and	C/ 145	SC 145.5.2	P 22	2 L 52	# r01-2	53
go back to "normal" p		for the DDD age	aatad Dawar\/alwa and	Yseboodt,	Lennart	Philips	Lighting		
	t that we take a magic number alue fields that indicates that th			Comment	Туре Е	Comment Status	Δ		Editoria
Autoclass power.						e of "state variable" (ano	-	CS related to this one	
A logical value for thi	s would be 0xACAC.								,,.
PDRequestedPower	en after a Physical Layer Autoc /alue=0xACAC which indicates ts Autoclass, would use PSEAll	Autoclass.		classif		ite variable pd_dll_ready nabled in a PD as indica 3.3.3)."			.3.3.4,
	can set PSEAllocatedPowerVal			Suggested	Remedy				
		-		Replac	e "the state va	riable" by "the variable".			
	perates under Autoclass, is abl on even redo Autoclass using D		e' to a fixed PD PI	Response		Response Status	c		
	on even redo Autociass using L			ACCE	PT.				
SuggestedRemedy	0117_dllautoclass.pdf								
Response	Response Status C								
ACCEPT IN PRINCI	LE.								
Adopt changes show									
	rg/3/bt/public/nov17/yseboodt_0	0447 6	.ir						

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 r01-253

Editorial

DLL

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C/ 145 SC 145.5.3 P 223 L 13 # r01-254 Yseboodt, Lennart Philips Lighting Philips Lighting Philips Lighting Philips Lighting	C/ 145 SC 145.5.3.4.1 P 228 L 37 # r01-257 Yseboodt, Lennart Philips Lighting Philips Lighting Philips Lighting Philips Lighting
Comment Type ER Comment Status A The way the subclauses are ordered in 145.5.3 (DLL state diagrams) no longer makes sense with the particular implementation of DLL we have adopted in the last cycle. Right now everything is structured with single-signature vs dual-signature as the top brais SuggestedRemedy Restructure 145.5.3 such that: - The top branch is PSE and PD	- For pd_req_class=6, change pd_dll_max_value to 510 Class 8 is OK.
 Subdivide PD into single-signature and dual-signature Create a single mapping Table for PSEs with ALL the variables (the regular ones and t _alt(X) ones) Merge the variable lists for the PSE Create two mapping Tables for PDs (one for single-signature and one of dual-signature) 	C/ 145 SC 145.5.3.4.2 P229 L1 # r01-258
Remove the construct _alt(X=A) or _mode(X=B) from the dual-signature mapping table replace by _alt(A) or _mode(B). <i>Response Response Status</i> ACCEPT.	
Cl 145 SC 145.5.3.3.1 P 225 L 25 # r01-255 Yseboodt, Lennart Philips Lighting Comment Type TR Comment Status A Values for pse_initial_value are incorrect (should match PClass_PD). SuggestedRemedy	These are incoming fields that can be zero. SuggestedRemedy Change both to "Values: 0 through 999" DLL Response Response Status C ACCEPT.
- For pse_allocated_pwr=6, change pse_initial_value to 510 - For pse_allocated_pwr=8, change pse_initial_value to 713 Response Response Status C ACCEPT.	Cl 145 SC 145.5.3.4.2 P 229 L 32 # r01-259 Yseboodt, Lennart Philips Lighting Philips Lighting Philips Lighting Philips Lighting Comment Type T Comment Status A DLL Missing 'valid values' for variable PDMaxPowerValue. Philips Lighting DLL
51 51	SuggestedRemedy Add "Values: 1 through 999" to PDMaxPowerValue. DLL Response Response C
Function pse_power_review does not follow the convention that functions start with do SuggestedRemedy Rename pse_power_review to do_pse_power_review in Clause 145. Response Response Status C ACCEPT.	ACCEPT.

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

Cl 145 SC 145.5.3. Yseboodt, Lennart	4.2 P 229 Philips Lighting	L 36	# r01-260		145 Seboodt, Len	SC 145.5.3.4. Inart	2	P 230 Philips Lighting	L 8	# r01-263
Comment Type TR Missing 'valid values' t	Comment Status A or variable PDRequestedPowe	erValue.		DLL C	<i>mment Typ</i> Wrong val		<i>Comment</i> SEAllocated	<i>Status</i> A PowerValueEcho	: "Values: 1 th	DLL nrough 999"
SuggestedRemedy Add "Values: 0 throug	h pd_dllmax_value" to PDRequ	uestedPowerVa	alue.	S	ggestedRer Change to	<i>medy</i> Values: 0 th	rough 999"			
Response ACCEPT.	Response Status C			R	sponse ACCEPT.		Response	Status C		
C/ 145 SC 145.5.3. Yseboodt, Lennart	4.2 P 229 Philips Lighting	L 40	# r01-261		145 Seboodt, Len	SC 145.5.3.4.	2	P 230 Philips Lighting	L 15	# r01-264
This is the single-sign only be zero.	Comment Status A PDRequestedPowerValue_mature PD DLL state diagram, th		s: 0 through 499"	ı		id values for ⁻ th valid range		Status A alues: 1 through 99 SEAllocatedPowe		DLL
SuggestedRemedy - Change to: "Values:	0"			R	Change to sponse	: "Values: 0 tl	nrough 999" <i>Response</i> :	Status C		
Response ACCEPT.	Response Status C			_	ACCEPT.		Responses			
C/ 145 SC 145.5.3. Yseboodt, Lennart	4.2 P 230 Philips Lighting	L 2	# r01-262	Y	eboodt, Len			P 231 Philips Lighting	L 10	# <u>r01-265</u>
Comment Type TR Values for pd_initial_v	Comment Status A alue are incorrect (should mate	ch PClass_PD)		DLL	mment Typ Function p ggestedRer	od_power_rev	Comment iew does not		tion that funct	DLL tions start with do
SuggestedRemedy	6, change pd_initial_value to "⋅					-	iew to do_pd_	_power_review in (Clause 145.	
- For pd_max_power=	8, change pd_initial_value to "			R	sponse ACCEPT.		Response	Status C		
Response ACCEPT IN PRINCIP	Response Status C LE.			-		SC 145.5.3.4.	4	P 231	L14	# r01-266
Change 6 600 8 900 to					eboodt, Len <i>mment Typ</i> Spurious r		Comment			Editorial
6 510 8 713				S	ggestedRer Fix.	nedy				
This resolution is iden	tical to comment #358.			R	sponse		Response	Status C		

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Comment ID Comment ID r01-266 Page 68 of 130

12/1/2017 3:17:23 PM

C/ 145 SC 145.5.3.4	.5 P 233	L 3	# r01-267	C/ 145	SC 145.5.3	.5 P 233	L 41	# r01-270
Yseboodt, Lennart	Philips Lighting			Yseboodt,	Lennart	Philips Lighting		
Comment Type TR	Comment Status A		DLL	Comment	Туре Т	Comment Status A		DLL
"!pd_dll_ready"						pping from non-existing variable aLldpXdot3LocReadyA / aLldpX		
Entry arc into INITIALIZ DLL state diagrams.	ZE should be "!pd_dll_enable + !	pd_dll_ready" to	o match with other	Suggested	dRemedy			
6					ve this mapping			
SuggestedRemedy Change to: "!pd_dll_en	able + !pd_dll_ready"					structures these tables as part o g exists for pse_dll_ready.	f a DLL re-sh	uffle, Editor to verify one
Response	Response Status C			Response		Response Status C		
ACCEPT.				ACCE	PT.			
C/ 145 SC 145.5.3.4	.5 P 233	L 23	# r <u>01-268</u>	C/ 145	SC 145.5.3	.5 P 233	L 51	# r01-271
Yseboodt, Lennart	Philips Lighting			Yseboodt,	Lennart	Philips Lighting		
Comment Type E	Comment Status A		Editorial	Comment	Туре Т	Comment Status A		DLL
The exit branch from R	EQUEST to IDLE has the "+" at	the start of the	next line.			pping from non-existing variable		
SuggestedRemedy					0 0	n object aLldpXdot3LocReadyA	aLldpXdot3L	.ocReadyB.
Move the "+" to the end	f of the line above.			Suggestee	-			
Response	Response Status C					and replace by mapping: v <= pd_dll_ready		
ACCEPT.				Response		Response Status C		
Cl 145 SC 145.5.3.5 Yseboodt, Lennart	P 233 Philips Lighting	L 33	# r01-269	ACCE	PT.			
Comment Type ER	Comment Status A		Editorial					
In Table 145-41 we find	the mappings between state di	agram variables	and Clause 30					
	ve used the notation "PDReque		Echo_alt(X=A)" to					
indicate we refer to vari	iable PDRequestedPowerValue	Echo_alt(A).						
Given that we now also notation no longer feels	use "P" as a variable pointing t	o the active state	e diagram, this					
SuggestedRemedy								
Replace in Table 145-4	1 every instance of "(X=A)" with	"(A)" and "(X=B	8)" with "(B)".					
Response	Response Status C							
ACCEPT.								

C/ 145 SC 145.5.3.6.2 P 234 L 46 # r01-272 Yseboodt, Lennart Philips Lighting Philips Lighting	C/ 145 SC 145.5.3.7.2 P 239 L 32 # r01-274 Yseboodt, Lennart Philips Lighting P				
Comment Type ER Comment Status A DLL The introductory text for "145.5.3.6.2 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 145.5.3.6.1.	Comment Type TR Comment Status A DL Values of pd_dll_max_value_mode(X) is incorrect, should match PClass_PD. SuggestedRemedy - - For pd_reg_class_mode(X)=5 change pd_dll_max_value_mode(X) to 356				
SuggestedRemedy	Response Response Status C				
Change the text as follows: "XXThe PSE power control state diagram (Figure 145-39) uses "_alt(X)", which is defined in 145.3.3, and the following variables:XX	ACCEPT. <i>Cl</i> 145 <i>SC</i> 145.5.3.7.3 <i>P</i> 239 <i>L</i> 35 # <u>r01-275</u> Yseboodt Lennart Philips Lighting				
Dual-signature PSEs provide the behavior of the state diagram shown in Figure 145-39 over each pairset independently unless otherwise specified. All the parameters that apply to Alternative A and Alternative B are denoted with the suffix "_alt(X)" where "X" can be "A" or "B", or "_alt(P)" where "P" can be "A" or "B", as defined in 145.5.3.6.1. A parameter that ends with the suffix "_alt(X)" may have different values for Alternative A and Alternative B.	Yseboodt, Lennart Philips Lighting Comment Type ER Comment Status A 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. SuggestedRemedy				
The PSE power control state diagram (Figure 145-39, Figure 145-40, Figure 145-43, and Figure 145-44) uses the following variables:"	Also the reference to 145.3.3 can now be made to the DLL specific 145.5.3.7.1. SuggestedRemedy				
Figure 145-44) uses the following variables:**" Response Response Status C ACCEPT. Cl 145 SC 145.5.3.6.2 P 235 L 45 # r01-273 Yseboodt, Lennart Philips Lighting Comment Type TR Comment Status A DLL Values of pse_initial_value_alt(X) are incorrect, should match PClass_PD. DLL	SuggestedRemedy Change text as follows: "XXThe PD power control state diagram (Figure 145-41) use "_mode(X)", which is defined				
Figure 145-44) uses the following variables:**" Response Response Status C ACCEPT. C/ 145 SC 145.5.3.6.2 P 235 L 45 # r01-273 Yseboodt, Lennart Philips Lighting Comment Type TR Comment Status A DLL Values of pse_initial_value_alt(X) are incorrect, should match PClass_PD.	SuggestedRemedy 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 **Dual-signature PDs provide the behavior of the state diagram shown in Figure 145-45 over each pairset independently unless otherwise specified. 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 defined in 145.5.3.7.1. A parameter that ends with the suffix "_mode(X)" may have different				
Figure 145-44) uses the following variables:**" Response Response Status C ACCEPT. Cl 145 SC 145.5.3.6.2 P 235 L 45 # [r01-273] Yseboodt, Lennart Philips Lighting Comment Type TR Comment Status A DLL Values of pse_initial_value_alt(X) are incorrect, should match PClass_PD. SuggestedRemedy	 SuggestedRemedy 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 **Dual-signature PDs provide the behavior of the state diagram shown in Figure 145-45 over each pairset independently unless otherwise specified. 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 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. The PD power control state diagram (Figure 145-45 and Figure 145-46) use the following 				

# <u>r01-279</u>	L 50	P 246 Philips Lighting		145.5.6.1 art		C/ 145 Yseboodt	;	# <u>r01-276</u>	L 10	P 240 Philips Lighting	.7.3	SC 145.5.3. nnart	<i>Cl</i> 145 Yseboodt, L
	IPowerValue	Comment Status A s switched from 4-pair to 2-p peration in the PDRequester d power for the active Mode.	nat is swi air opera	ds for 2- pa	al-signa r it need	powe	DLL	through 499".	e(X): "Values:	ent Status A stedPowerValue_mo nax_value_mode(X).	or PDReque	alid values for ust be bound	These r
		I3, not Annex.							∋(X)"	d_dllmax_value_mo	0 through	-	SuggestedF Replace
		io, not Annex.	45-45, 11			Suggeste			5(1)	se Status C	0		Response
		able 145-43.	to Table			00					reepe		ACCEP
		esponse Status C			9	Respons ACC	,	# r01-277	L 25	P 240 Philips Lighting	.7.3	SC 145.5.3.	<i>Cl</i> 145 Yseboodt, L
# r01-280	L 12	P 254 Philips Lighting	!	145.7.3.2 art		C/ 145 Yseboodi	DLL		ss_PD.	ent Status A X) should match PC			Comment T
Editoira		Comment Status A ious period before "PD".		E 1 contains s		Commen PICS		56.	ue_mode(X) to	change pd_initial_v	_mode(X)=	,	SuggestedF - For pd
					dRemed	Suggeste Reme				se Status C	Respo		Response ACCEP
		esponse Status C	Respo			Respons ACC	3	# r01-278	L 27	P 244 Philips Lighting		SC 145.5.4 nnart	C/ 145 Yseboodt, L
# <u>r01-281</u>	L 10	P 255 Philips Lighting	2	145.7.3.2 art		C/ 145 Yseboodi	DLL).	s is about the F	ent Status A eader "_alt(X)", but th			Comment T Table 1
PICS		Comment Status A fault value" be capitalized.	d default	E _4pair_cano ne should r	28 PD_4						_	emedy both occurant	0
						Suggeste				se Status C	Respo		Response ACCEP
					ge to:							•	ACCEI
		ault value"	d default	4pair_cand	28 pd_4	"PSE							
		ault value" esponse Status C		4pair_cand		"PSE Response							

C/ 145 SC 145.7.3.2 P 257 C/ 145A SC 145A.5 P 278 L 44 # r01-285 L 24 # r01-282 Yseboodt, Lennart Philips Lighting Philips Lighting Yseboodt, Lennart Comment Type E Comment Status A Editorial Comment Type E Comment Status A Editorial "PSE55 In theCLASS RESET, CLASS RESET PRI or CLASS RESET SEC state" "(e.g. V f1 ? V f3).The common mode" Sentence is missing space. Missing space. SuggestedRemedy SugaestedRemedv Change to: "PSE55 In the CLASS RESET, CLASS RESET PRI or CLASS RESET SEC state" Add space. Response Response Status C Response Response Status C ACCEPT. ACCEPT. SC 145.7.3.2 P 257 C/ 145 L 32 # r01-283 C/ 145 SC 145.2.8.5.1 P166 L44 # r01-286 Yseboodt, Lennart Philips Lighting Zimmerman, George Aquantia, ADI, Comm Comment Status A Editorial Comment Type E Comment Type **TR** Comment Status A Pres: Darshan1 "pd_auotclass TRUE when PSE reaches POWER_ON state" "The PSE PI connector (jack) when mated with a specified balanced cabling connector Misspelled variable. (plug) shall meet the requirements of 145.2.8.5.1." - this is nonsensical. There is actually only one other requirement listed in 145.2.8.5.1, and I believe the intent is that that SuggestedRemedy requirement should be stated so that it applies when the PSE PI is mated to a connector. Change to: SuggestedRemedy "pd autoclass TRUE when PSE reaches POWER ON state" delete page 166, lines 44-45 (the quoted sentence in the comment), and insert new Response Response Status C sentence after the sentence ending on line 30 of page 167 (sentence begins on line 29 "A ACCEPT. PSE shall not source..."), new sentence to read ""This unbalance current requirement applies at the PSE PI connector (jack) when mated with a specified balanced cabling C/ 145 SC 145.7.3.2 P264 L7 # r01-284 connector (plug)." Yseboodt, Lennart Philips Lighting Response Response Status C Comment Type E Comment Status A Editorial ACCEPT. "PD45 Input average powerexceptions for Class 6 and Class 8single-signature PDs" Two spaces missing. SuggestedRemedy Change to: "PD45 Input average power exceptions for Class 6 and Class 8 single-signature PDs" Response Response Status C ACCEPT.

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

C/ 145	SC 145.3.8.9	P 205	L 50	# r01-287	C/ 1	SC 1.4.418a	c	P 25	L 35	# r01-288
Zimmerman,		Aquantia, AD				nan, George		Aquantia, AD		101 200
(plug) sh commer and the requirem balanced SuggestedR delete pa paragrap line 29 current r connecto Response	D PI connector (jack) hall meet the require nt on 145.2.8.5.1. T same for dual-sig) nent should be state d cabling connector Remedy age 205 lines 50-51 ph after the sentence "Dual-signature PDs requirement for both or (jack) when mate	comment Status A) when mated with a spee ements of 145.3.8.9" - th 'here is actually only one listed in 145.3.8.9 and I ed so that it applies when (the quoted sentence in the ending on line 34 of p is shall not exceed"), n is single-signature and du id with a specified balan esponse Status C	his is nonsensical e other requirement believe the inten n the PD PI is ma n the comment), page 206 (previou ew paragraph to ual-signature PDs	I. This is a dual of a ent (one for single-sig, it is that that ated to the specified and insert new us paragraph begins ou read ""The unbalance s applies at the PD PI	Suggeste Char 1.4.4 signa class powe 1.4.4 signa class Data	Anition of Type 4 PE edRemedy ange 1.4.418aa and ature PD that requ sification. Addition er on both Modes ature PD that requ sification. Addition	A single-signaturests Class 1 to Chally, the PD implicit and the PD implication of the PD implication of the PD implication, and acceleration, and acceleration of the PD implication, and acceleration of the PD implication of the PD	r dual-signat ad: class 4 on bo lements Mult (See IEEE 80 re PD that re t least one M blements Mu	equests Class 1 to oth Modes during tiple-Event classi 02.3, Clause 145 quests Class 7 o lode during Phys ltiple-Event class	fication, and accepts). r Class 8, or a dual-
ACCEP	T IN PRINCIPLE.				Respons	e	Response Sta	atus C		
paragrap	ph after the sentend	(the quoted sentence in the ending on line 34 of p s shall not exceed"), n	bage 206 (previou	us paragraph begins of	1	EPT IN PRINCIPI	_E.			
	•	s apply at the PD PI co			Chai	ige demilions to.				

1.4.418aa Type 3 PD: A single-signature PD that requests Class 1 to Class 6, or a dualsignature PD that requests Class 1 to Class 4 on both Modes, during Physical Layer classification. Additionally, the PD implements Multiple-Event classification, and accepts power on both Modes simultaneously. (See IEEE 802.3, Clause 145).

1.4.418ac Type 4 PD: A single-signature PD that requests Class 7 or Class 8, or a dualsignature PD that request Class 5 on at least one Mode, during Physical Layer classification. Additionally, the PD implements Multiple-Event classification, is capable of Data Link Layer classification, and accepts power on both Modes simultaneously. (See IEEE 802.3, Clause 145).

specified balanced cabling connector (plug)."

C/ 145 SC 145.3.3.1 P 177 L 53 # [r RAN, ADEE Intel Corporation	01-289	<i>CI</i> 145 RAN, ADEE	SC 145.2.4	Ir	P115 Itel Corporation	L 1 on	# r01-291
Comment Type E Comment Status R	PD SD	Comment Ty	vpe T	Comment Sta	atus A		PSE P
Three subclauses (this one, 145.2.5.2, and 145.5.3.1) define conventions for so diagrams, which are all the same.	tate			PI pin assignme about them, so			
It may be more clear for readers to have one subclause for conventions under instead of having multiple "conventions" subclauses.	145.1,	The para	allel subclause	for the PI is titled	1 "PD PI".		
Suggested Remedy		SuggestedR	,				
Move the content of 145.2.5.2 to a new subclause 145.1.5.			this subclause	-			
Refer to that subclause in 145.2.5, in 145.3.3, and in 145.5.3.		Response ACCEP	Г.	Response Sta	tus C		
Delete 145.2.5.2, 145.3.3.1, and 145.5.3.1.		C/ 145	SC 145.3.3.2		P 178	L3	# r01-292
Response Response Status C		RAN, ADEE		Ir	tel Corporatio	on	
REJECT.		Comment Ty	vpe G	Comment Sta	atus R		Editoria
Comment is out of scope of the recirculation. Comment is on unchanged text a proposes a substantive text change which does not identify a material problem		The text 145.3.3:		se is equivalent	to what was a	already written i	in the last paragraph of
C/ 145 SC 145.2.3 P110 L4 # [r RAN, ADEE Intel Corporation	01-290	"_mode("_mode((X)" where "X" o (X)" may have o	apply to Mode A can be "A" or "B" different values fo	. A paramete	r that ends with	
Comment Type E Comment Status R	Editorial	diagram	s.'				
This subclause seems to be an elaboration of the content of 145.2.2. If so, it sh hierarchically positioned under it.	nould be		here is some o / confuse reade		(which I can't	see), this repe	tition is unnecessary
SuggestedRemedy		SuggestedR	emedy				
Make this subclause 4th-order so that it becomes 145.2.2.1.		Delete tl	nis subclause.				
Response Response Status C		Response		Response Sta	tus C		
REJECT.		REJECT	Γ.				
145.2.2 is about PSE Location. 145.2.3 is about Midspan varients (specifically about data rates).		This cor	nment is out of	scope and does	not fix somet	thing that is tec	hnically broken.

	145.3.3.4.1 Constants
C/ 145 SC 145.3.3.3 P178 L 13 # r01-293	145.3.3.4.2 Variables
RAN, ADEE Intel Corporation	145.3.3.4.3 Timers
Comment Type G Comment Status A Editorial	145.3.3.4.4 Functions
Subclauses 145.3.3.3 through 145.3.3.7 discuss single-signature PDs.	145.3.3.4.5 State diagram
Subclauses 143.3.3.5 through 143.3.3.7 discuss single-signature 1 Ds.	move the following text from 145.3.3:
Subclauses 145.3.3.4 through 145.3.3.12 are the equivalent of the above for dual-signature	
PDs.	"Single-signature PDs shall provide the behavior of the state diagram shown in Figure 145-
It would be friendling for reading (who may be interacted in only one bind of DDs) to	26 and Figure 145-27" - to the new 145.3.3.3 (and change to "diagrams" per other
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	comment)
of 145.5.3.	"Dual-signature PDs (.)" (the whole second paragraph) to the new 145.3.3.4.
SuggestedRemedy	
Create a subclause hierarchy as follows:	C/ 145 SC 145.3.3 P177 L 42 # r01-294
create a subclause merarchy as follows.	RAN, ADEE Intel Corporation
145.3.3.3 Single-signature PD state diagrams	Comment Type E Comment Status A Editorial
145.3.3.1 Constants	The title is "PD state diagram" and the text mentions a diagram, but there are three state
145.3.3.3.2 Variables	diagrams.
145.3.3.3.3 Timers 145.3.3.3.4 Functions	SuggestedRemedy
145.3.3.3.5 State diagram	Change the title to "PD state diagrams".
145.3.3.4 Dual-signature PD state diagram	Change the title to FD state diagrams.
145.3.3.4.1 Constants	Also change "diagram" to "diagrams" in the first paragraph (the second paragraph is fine).
145.3.3.4.2 Variables 145.3.3.4.3 Timers	Response Response Status C
145.3.3.4.4 Functions	ACCEPT.
145.3.3.4.5 State diagram	
	C/ 145 SC 145.3.3.12 P189 L1 # r01-295
Consider also moving the following text from 145.3.3:	RAN. ADEE Intel Corporation
"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 Type E Comment Status A Editorial
comment)	For this case there is only one state diagram.
	SuggestedRemedy
"Dual-signature PDs ()" (the whole second paragraph) to the new 145.3.3.4.	Change "diagrams" to "diagram".
Response Response Status C	Response Response Status C
ACCEPT IN PRINCIPLE.	ACCEPT.
Create a substause historichy as follows:	
Create a subclause hierarchy as follows:	
145.3.3.3 Single-signature PD state diagrams	
145.3.3.1 Constants	
145.3.3.3.2 Variables	
145.3.3.3.3 Timers 145.3.3.3.4 Functions	
145.3.3.3.5 State diagram	
145.3.3.4 Dual-signature PD state diagram	

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 145.2.5.7 P 138 L 3 # [r01-296] RAN, ADEE Intel Corporation Intel Corporati	CI 145 SC 145.3.4 P 216 L 38 # 101-297 RAN, ADEE Intel Corporation Intel Corporation
Comment Type T Comment Status A Editorial	Comment Type E Comment Status R Editoria.
This diagram uses an empty pentagon to denote a transition from a state on another page, where the "to" arrows include the state name.	The signature requirements from a PD are stated in great detail before the concept of signature is introduced (P217 L1).
This notation does not have precedence in other state diagrams (according to a non- thorough search).	For non-expert readers, this may be difficult to understand.
The corresponding state diagram in clause 33 uses letters inside pentagons for both "from"	I am aware that this subclause structure is based on 33.3.4; It would be good to also change that subclause in maintenance.
and "to" directions. This is the common convention in other clauses I know.	SuggestedRemedy
Introducing a new graphical convention without explanation is may be confusing for readers.	Move the text starting from "The detection signature is a resistance calculated" and ending with "the characteristics in Table 145-22" (inclusive) to the beginning of this subclause.
This also applies to the Single-signature PD state diagram in 145.3.3.7.	Response Response Status C
SuggestedRemedy	REJECT.
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).	Comment is out of scope and as the commenter points out, the structure of this section is based on clause 33.
Alternatively, add text in the "conventions" subclause to describe this new convention.	C/ 145 SC 145.3.4 P191 L17 # r01-298
Response Response Status C	RAN, ADEE Intel Corporation
ACCEPT IN PRINCIPLE.	Comment Type T Comment Status A PD Detection
Append to 145.2.5.2 as follows:	I think a PD must not present a detection signature outside of the limits in the table,
"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	regardless of the reason (for example, it must also not happen when a PD tries to avoid detection).
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."	Therefore, "that requests power" is an unneeded limitation.
	The corresponding text in 33.3.4 is stated differently, and can be used instead.
	SuggestedRemedy
	Change from "A PD that requests power by presenting" to
	"A PD that presents"
	Response Response Status C

C/ 145 SC 145.3.6.1.1 P 196 L 34 # r01-299 RAN, ADEE Intel Corporation Intel Corporation Intel Corporation Intel Corporation	C/ 145 SC 145.3.8 P 197 L 28 # r01-301 RAN, ADEE Intel Corporation Intel Corporation Intel Corporation Intel Corporation
Comment Type T Comment Status A PD Class	Comment Type G Comment Status R Editor
The newly inserted text about hysteresis is stated in weasel-words. "is required to" sounds like a normative statement.	"PD power" seems not to be good heading for this subclause, since it deals also with voltage, currents, slew rates, etc.
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).	However I'm not sure what the title should be. SuggestedRemedy
Also, there may be ways other than hysteresis to avoid erroneous transitions.	Consider changing to a better title.
As it stands, this seems to be a recommendation (which makes sense), so it should be stated as a recommendation.	Response Response Status C REJECT.
SuggestedRemedy	This comment is out of scope and does not provide a specific remedy.
Change "Appropriate hysteresis in the VMark_th threshold voltage is required to avoid erroneous transitions"	C/ 145 SC 145.4.9 P 216 L 23 # r01-302 RAN, ADEE Intel Corporation Intel Corporation # r01-302
to "Implementations should employ appropriate methods (such as hysteresis in VMark_th) to avoid erroneous transitions"	Comment Type G Comment Status A Editor. (After 'If the existing FD configuration is of the "Cross-connect model" type, the Midspan PSE')
Response Response Status C ACCEPT.	The phrase "needs to" was changed to "can". Both are not clear standard language.
C/ 145 SC 145.2.7.2 P175 L 32 # r01-300	According to the style manual, "can" is equivalent to "is capable of", which seems inappropriate here. I think it should be a "may".
RAN, ADEE Intel Corporation Comment Type E Comment Status A Editorial	In addition, the "shall" in the next statement is now the only normative requirement; so the "In addition" is inappropriate.
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).	SuggestedRemedy Change "can be" to "may be".
Also holds for 145.3.6.2 (PD autoclass). SuggestedRemedy Append "(optional) to the headings of subclauses 145.2.7.2 and 145.3.6.2.	Change "In addition, the installation of a Midspan PSE shall" to "An installation of a Midspan PSE shall"
Response Response Status C ACCEPT.	An installation of a Midspan PSE shall Response Response Status C ACCEPT.
	[Editor's note added after comment resolution completed:
	The change for "In addition, the installation of a Midspan PSE shall" was not made as that text is not in the draft.]

C/ 145 SC 145.5 RAN, ADEE	P 256 Intel Corporatio	L 53	# <u>r01-303</u>	<i>CI</i> 145 RAN, ADEE	SC 145.5.3.3.	1 P258 Intel Corpo	L 46 ration	# r01-305
Comment Type E The second paragraph SuggestedRemedy	Comment Status A of 145.5 seems to belong to 1	45.5.1 TLV fra	<i>Editorial</i> me definition.	Comment Ty Why is in descripti	, nformation abo	Comment Status A ut a single variable stated	before the list inste	Editorial ead of at this variable's
Move this paragraph to	the end of 145.5.1.			Also app	licable in 145.5	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
Response ACCEPT.	Response Status C			"The val	finition of pse_ ue is quantized	initial_value, insert after th to fit the available resoluti	on. Additional info	rmation on power levels
C/ 145 SC 145.5.3 RAN, ADEE	P 223 Intel Corporation	L 19 m	# <u>r01-304</u>			y be found in 145.3.8.2.1." oh of 145.5.3.3.1.		
has "diagram" referring	Comment Status A d to "diagrams" in the previous to two different diagrams, twic numbered in the clean docum	ce.		Apply ap <i>Response</i> ACCEPT		ges similarly in the other p Response Status C	laces indicated in	the comment.
which is optional. Is the Dual-signature PD? (I SuggestedRemedy	e "shall" appropriate for it too? am not sure about this)	Is there a para	llel requirement for	<i>CI</i> 145 RAN, ADEE	SC 145.5.3.3	P 223 Intel Corpo	L 39 ration	# r01-306
Change "diagram" to "o	diagrams" twich in the second			Comment Ty The field		Comment Status A which is a part of the LLDF	PDU. It is not a fiel	DLL d of the LLDPDU.
Response ACCEPT IN PRINCIPL	th the Autoclass state diagram <i>Response Status</i> C .E. diagrams" twice in the second			0	emedy	ding LLDPDU field" to "the similar manner. Response Status C	corresponding Pc	ower via MDI TLV field".
				ACCEPT	г.			

C/ 145 SC 145.5.3.6 RAN, ADEE	.1 P 234 Intel Corporation	L 40	# r01-307	C/ 145 RAN, ADEE	SC 145.5.6	P 246 Intel Corporation	L 3 on	# r01-309
Comment Type E Typo: "It's" should be "	Comment Status A			Comment Ty "The PS	,	Comment Status A ze the LLDPDUs"		DLL
Also in 145.5.3.7.1, P2 SuggestedRemedy Change per comment.				not just	PSE and PD s	cks sent over the LLDP protoc tuff. uate to refer to the Power over		
Response ACCEPT IN PRINCIPL	Response Status C E.			Also, a	cross-reference	e would be useful.		
Change per comment.				SuggestedF	emedy			
Also in 145.5.3.6.1, pa	ge 239, line 14			0		DPDUs" to either: MDI TLV (See 79.3.2)"		
C/ 145 SC 145.5.3.6	.2 P 274	L16	# r01-308		LLDP protoco	ol (See Clause 79)"		
RAN, ADEE	Intel Corporation	ı		Response		Response Status C		
Comment Type E	Comment Status A		Editorial	ACCEP	T IN PRINCIPL	.E.		
The previous paragrap appear right after it.	n ends with "the following variab	oles:" so the	list of variables should	Change	to: "use the L	LDP protocol (See Clause 79)"	,	
But instead, we get this	paragraph, which seems out o	f place.						
SuggestedRemedy								
Move this paragraph (s subclause.	taring with "Dual-signature PSE	s") to be the	first paragraph in this					
Response ACCEPT.	Response Status C							

Cl 145 SC 145.7.2.4 P 252 L 19 # [r01-310] RAN, ADEE Intel Corporation Intel Corporation Intel Corporation Intel Corporation	C/ 145 SC 145.2.5.7 P 142 L 6 # [r01-312] Peker, Arkadiy Microsemi Corporation
Comment Type T Comment Status A 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"? From reading the corresponding subclauses, 145.2.3 and 145.2.7, it isn't clear to me why this is so.</n>	Comment Type TR Comment Status A Pres: Darshan3 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
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. SuggestedRemedy Edit the PICS item list to make it correct. If there is indeed a reason for this mutual exclusion, include clear statements in the referenced subclauses. Response Response Status C ACCEPT.	 SuggestedRemedy In the exit from CLASSIFICATION_PRI to CLASS_PROBE_PRI, replace option_class_probe with option_class_probe_pri. 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 Alternative by issuing 3 class events. When set to TRUE, the PSE will issue 3 class events 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. Values: FALSE: The PSE will not probe for the PD requested Class. TRUE: The PSE probes for the PD requested Class."
C/ 145 SC 145.7.3.1 P 253 L 8 # [r01-311] RAN, ADEE Intel Corporation Intel Corporation Intel Corporation Intel Corporation	Response Response Status C ACCEPT IN PRINCIPLE.
Comment Type T Comment Status A PICS Thankfully, the compatibility considerations in 145.1.1 are not stated as a mandatory requirement any more. PICS PICS	Adopt http://www.ieee802.org/3/bt/public/nov17/darshan_03_117_final.pdf This resolution is identical to comment #434.
SuggestedRemedy Delete item COM1. Response Response Status ACCEPT.	[Editor's note added after comment resolution completed: There is a typo in the file name. The file used is http://www.ieee802.org/3/bt/public/nov17/darshan_03_1117_final.pdf]

eker, Arkadiy	Minnensio	L3	# r01-313	C/ 145	SC 145.	3.3.7	P 184	L 30	# r01-314
	Microsemi Co	orporation		Peker, Arka	adiy		Microsemi Co	orporation	
This comment is marked CLAS It is not clear why we used sing dual-signature and for single-sig a) What if the available power power >4 for the secondary? b) the usage of option_class_pri the identical. Therefore, the option_class_pri any other parameter in the spec uggestedRemedy Adopt the propose remedy to th both comment marked CLASS CLASS_PROB_PRI_2.]	le option_class_prol gnature. Few issues will be <4 for the pri obe for single-signa obe need to be sepa to for dual-signature f e comment marked _PROB_PRI_1 and onse Status C	mary alternative ture and dual-sig arate for primary hat deals with cl CLASS_PROB comment is ma	and the available inature is not exactly and secondary like in ass and power. _PRI_1. [It resolves rked	uncom -If PD F PD is n -If PSE complia As a re -This b -Specif avoidea -The na 802.3b make it Having 1) Viola 2) Poss (Compl	te machine pliant beha Pl voltage i equired to Pl voltage ant PSE. isult, falling ehavior shi ically, if thi d or correct eed to cove t is undersi t optional. the NOPC ation of tpo sible overloc liant PDs d ggested to	(and any c vior. We has a drop due imit its pow is drop for below VPI ould not be a behavior ed. r in the PE ood but we WER state werdelay_t ad condition	ave infinite numbers of to overload or short cir ver consumption to PC a duration longer than	them. rcuit, this PD is n lass_PD by desig allowed by the ti vas powered is no tate machine. r requirements in PD behavior and pehavior on comp n-compliant beha POWER_DELAY ant of (pse_power	n. ansient spec, it is non- on-compliant behavior. the spec, it should be newly designs of liant PDs and at least vior such to NOPOWER. _level <== 8)
This resolution is identical to co [Editor's note added after comm There is a typo in the file name http://www.ieee802.org/3/bt/put	nent resolution comp		f]	it, inclu Option 1. Dele bypass 2a. Del 2b) add state, tl " Option 1. Make variable 2. Add option_ Implem VOff_P Values	1: NOPWER ding the va 2: te the exit ing the 80r lete the assign the follow he assignn 3: e the two ir e. Change the variabl nopower rentation sp D during P PD will no	riables ass rom POW hasec timer ignment pang text to ent to the puts to NC he condition option_no pecific varia OWER_DI	sociated with it. ER_DELAY to NOPOV	VER. [This will re n the NOPOWER r_level definition: ending in implem to (VPD <voff_pe list. D will go to NOPC</voff_pe 	state OR "When in NOPOWER entation specific D) *option_nopower. DWER in case VPD <

C/ 145

SC 145.2.5.4

signature PD in page 190 and update variable list accordingly.

Response Status C

Response

ACCEPT IN PRINCIPLE.

adopt changes shown in http://www.ieee802.org/3/bt/public/nov17/yseboodt 08 1117 final.pdf

This resolution is identical to comment #227.

C/ 145	SC 145.2.5.4	P127	L 9	# r01-315
Peker, Ark	adiy	Microsemi Corp	oration	
Comment	Type TR	Comment Status A		PSE SD

In the text " temp_var A variable used to store the value of the state variable pd_class_sig." it is not clear that temp_var_pri store the previous result of pd_class_sig. Otherwise there is no meaning to compare between those two in the state machine.

SuggestedRemedy

Change from " temp_var A variable used to store the value of the state variable pd_class_sig."

Response Status C

To:

" temp_var A variable used to store the previous value of the state variable pd_class_sig."

Response

ACCEPT IN PRINCIPLE.

Combining with change from comment 158.

Change from " temp_var A variable used to store the value of the state variable pd_class_sig."

To:

" temp_var A variable used to store the previous value of the variable pd_class_sig."

	Peker, Arkadiy	Microsemi Corporation	
	Comment Type TR	Comment Status A	
	pd_class_sig_pri for the	ri A variable used to store the value of the state variable e Primary Alternative. " it is not clear that temp_var_pri store the lass_sig_pri. Otherwise there is no meaning to compare between nachine.	
315	SuggestedRemedy		
PSE SD	 Change to "temp_va pd_class_sig_pri for the 2) Repeat (2) for the se 		
ass_sig."	Response	Response Status C	
e there	ACCEPT IN PRINCIPL	Ε.	
	Combining with change	from comment 158.	
ss sia "	1) Change to "temp_va pd_class_sig_pri for the 2) Repeat (2) for the se		

P127

L11

r01-316

C/ 145 SC	145.2.5.7	P143	L 10	# r01-317	This re	esolution is ide	ntical to com	nment #434.		
Peker, Arkadiy		Microsemi Co	rporation						lata di	
Comment Type	TR	Comment Status A		Pres: Darshan3	[Edito	rs note added	atter comme	ent resolution comp	leted:	
issuing 3 cla	ss events w	d with the primary (and seco when the available power is 3 event and powering up. The	3 and powering ι	up while the concept is				The file used is c/nov17/darshan_0	03_1117_final.pd	df]
4PID3_PRI s	state which	doesn't allow going to CLAS	S_RESET_PRI	in this scenario due to	C/ 145	SC 145.7		P 250	<i>L</i> 1	# r01-318
		var_pri = 4) or not in the cond the following conditions:	ditions at the exi	ts of 4PID3_PRI.	Jones, Ch	ad		Cisco System	is, Inc.	
pse_avail_pv	vr_pri<4	-			Comment	Туре Е	Comm	ent Status A		Pres: Chabot
Option_class class_4PID_	mult_event							of Craig Chabot: oct changes in the r	ormative text of	the Clause 145
Now we are					Suggested	dRemedy				
				na au déin ar cuiédh an an ún ar	Adopt	changes in ch	abot_01_111	17.pdf		
		_var_pri=3, the current pd_c d_class_sig_pri not equal ter			Response		Respon	nse Status C		
0)=TRUE. A	s a result, n	noving to MARK_EV_LAST_			ACCE	PT IN PRINCI	PLE.			
	ult is doing	3 class events and power up res doing 1 class event and		ail_pwr_pri<4	Updat	e PICS to mate	ch text in D3.	.2.		
The problem	resulted fro	om the 4PID3_PRI exit that	doesn't allow to	go	C/ 145	SC 145.3.6	6	P 195	L 12	# r01-319
		ue to redundant question if (p tant is only if (pse_avail_pwi		ori < 4) * (temp_var_pri	Abramson	, David		Texas Instrun	nents Inc	
		emp_var_pri = 4) and (temp_		al 4) from both exits,	Comment	Type TR	Comm	ent Status D		PD Man
going to CLA MARK_EV_I = 4) while po	e end of th SS_EV1_L AST_PRI i _class_sig	red. is problem. Now After fixing .CE_4PID_PRI, we will not p is blocked by the condition tl _pri=3. The proposed fix for kit from CLASS_EV1_LCE_4	ower because the ce_timer_pri_do it is to delete the	he access to one * (pd_class_sig_pri e part (pd_class_sig_pri	case i (witho clause	n which the cla ut any real ben e 33 would neve	ause 145 mal hefit) and thus er be deprec	kes it harder/more s I doubt users wo ated.	expensive to bu uld move over th	ure. I have found one ild a compliant PD ne Type 3 and thus ype 3 PDs to include a
SuggestedReme 1. Change th	<i>dy</i> le exit from	4PID3_PRI to CLASS_RES	ET_PRI from:	-	mark s easily.	signature, ever	n class 1-3 P	Ds. This is a burd	en to the PD and	d we can elimate it
To (ose_avail_p	_pri < 4) * (temp_var_pri = 4 owr_pri < 4) 4PID3_PRI to MARK_EV_L								3 Type 3 PDs which compliant mark current.
(pse	_avail_pwr	_pri >= 4) + (temp_var_pri ne			Suggested	dRemedy				
Change th	e exit from	pwr_pri >= 4) CLASS_EV1_LCE_4PID_P pd_class_sig_pri = 4)	RI to to MARK_	EV_LAST_PRI from:				wo rows. The first es 4-8, with a minin		3 with a minimum of
To: tlce_time	er_pri_done	CLASS_EV1_LCE_4PID_PR	RI to IDLE_PRI		Proposed REJE	•	Respon	nse Status Z		
Response		Response Status C			This s	ommont wee V		N by the commente	\ F	
					1 015 0			N OV THE COMMENT	*1	

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.	3.6.1.1	P 196	L 22	# r01-320	C/ 145	SC	145.3.3.7	P	83	L 22	# r01-321
Abramson	, David		Texas Instrun	nents Inc		Abramson	David		Texa	s Instrur	ments Inc	
Comment	Type TR	Co	omment Status D		PD Mark	Comment	Туре	TR	Comment Status	D		PD SD
shown	in the state	diagram o	a mark event signature of Figure 145-26 and Fig	gure 145-28, the	PD shall draw IMark				mark change in my letect signatures.	other co	omments, we nee	ed to change the SD to
as def 145-22		e 145-25 a	nd present a non-valid	detection signat	ure as defined in Table	Suggested	IRemea	ly				
MARK should pulses during	state. Sind not apply to	e these PE o them (the an extra pu cle).	Ds are not required to c e reason for the require Ilse if they have a valid	ount the class e ment is that PD	ect signature during the vents, this requirement s that count class g mark and if plugged in	chang to: IF pd_ preser ELSE	e "prese req_cla nt_det_s		g <= invalid"			
Suggested	Remedy					Proposed Response Response Status Z REJECT.						
Make	this requirer	nent only a	apply to class 4-8 PDs.									
			a mark event signature			This comment was WITHDRAWN by the commenter.						
as def		e 145-25 a	of Figure 145-26 and Fig nd Class 4-8 PDs shall		PD shall draw IMark alid detection signature	C/ 145 Lukacs, Mi		145.3.8.1	-	2 01 on Labor	L 16 ratories	# r01-322
Proposed REJE	'	Res	sponse Status Z			<i>Comment</i> It is co		E that multi	<i>Comment Status</i> ple behaviors are li		he sentence.	Pres: Yseboodt8
This comment was WITHDRAWN by the commenter.				When transit invalid	e the te the PD ions to	ext to: is in POW NOPOWE on signatu	R and - depending	on the v	alue of Vpd - ma	elow VOff_PD, the PD y show a valid or draw any class current,		
						Response			Response Status	С		
						ACCE	PT IN F	RINCIPLE				
								s shown ir e802.org/:	ı 3/bt/public/nov17/ys	seboodt_	_08_1117_final.p	odf

This resolution is identical to comment #227.

C/ 145 SC 145.1 P103 L15 # r01-323	Cl 145 SC 145.3.8.6 P204 L 50 # r01-325
Bullock, Chris Cisco Systems, Inc.	Lemahieu, Joris ON Semiconductor
Comment Type E Comment Status A Editorial Missing a serial comma. Add a comma after "Powered Device (PD)" Editorial	Comment Type GR Comment Status A Pres: Yseboodt4 "When transient TR1 or TR2 is applied, the PD shall meet the operating power limits after
SuggestedRemedy Change: "They are the power supply, a non-data entity which is called the Power Sourcing 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."	TTransient as defined in Table 145-30." It is unclear what exactly is meant by 'the operating power limits'. The limits could be at PSE side as well as PD side. Moreover because the voltage at the PI is no longer static the power limits at PSE and the PD are no longer "in sync". Also the 'after TTransient' is not clearly defined.
To: "They are the power supply, a non-data entity which is called the Power Sourcing 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."	SuggestedRemedy Referring back to 802.3-2015_SECTION2.pdf (p653) where "PD upperbound template" is used, the term "PSE lowerbound template" (p170-172 in Draft3.1) is related. Also note 'TTransient' is the same as 'TLIM min'.
Response Response Status C ACCEPT.	Replace "the operating power limits after TTransient as defined in Table 145-30." by "the PSE lowerbound template (see Figure 145-24 and Figure 145-25)"
C/ 33 SC 33.4.9.3.1 P72 L 41 # [r01-324] Mcclellan, Brett Marvell Semiconductor Marvell Sem	Response Response Status C ACCEPT IN PRINCIPLE.
Comment Type E Comment Status A Editorial	adopt changes in http://www.ieee802.org/3/bt/public/nov17/yseboodt_04_0117_final.pdf
Table 33-20b has a single entry. No table is required. It can be changed to an equation.	This resolution is identical to comment #242.
SuggestedRemedy Change Table 33-20b into equation 33-19a. change references in the text from Table 33-	[Editor's note added after comment resolution completed:
20b to equation 33-19a Do the same for Table 33-20c. Change Table 33-20c into equation 33-19b. change references in the text from Table 33- 20c to equation 33-19b	There is a typo in the file name. The file used is http://www.ieee802.org/3/bt/public/nov17/yseboodt_04_1117_final.pdf]
Response Response Status C ACCEPT.	

Editorial

C/ 1	SC 1.4.338	P 24	L 51	# r01-326
Stewart, Hea	ath	Analog	Devices Inc.	

Comment Type ER Comment Status A

Second paragraph is redundant with previous descriptions.

Power Sourcing Equipment (PSE): A DTE or midspan device that provides the power to a single link section. DTE powering is intended to provide a single 10BASE-T, 100BASE-TX, or 1000BASE-T device with a unified interface for both the data it requires and the power to process these data. 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 or Clause 145), DTE powering is intended to provide a single 10BASE-T, 100BASE-TX, 100BASE-T, 2.5GBASE-T, 5GBASE-T, or 10GBASE-T device with a unified interface for both the data it requires and the power to process these data. When used with single balanced twisted-pair (BASE-T1) PHYs (see IEEE Std 802.3, Clause 104), DTE powering is intended to provide a single 100BASE-T1 or 1000BASE-T1 device with a unified interface for both the data it requires and the power to process these data. A PSE used with balanced single twisted-pair PHYs is also referred to as a PoDL PSE.

A DTE or midspan Power over Ethernet (Clause 33 and Clause 145) device that provides the power to a single link section. DTE powering Power over Ethernet is intended to provide a single 10BASE-T, 100BASE TX, 1000BASE-T, 2.5GBASE-T, 5GBASE-T, or 10GBASE-T device with a unified interface for both the data it requires and the power to process these data.

SuggestedRemedy

Delete:

A DTE or midspan Power over Ethernet (Clause 33 and Clause 145) device that provides the power to a single link section. DTE powering Power over Ethernet is intended to provide a single 10BASE-T, 100BASE TX, 1000BASE-T, 2.5GBASE-T, 5GBASE-T, or 10GBASE-T device with a unified interface for both the data it requires and the power to process these data.

Response

Response Status C

ACCEPT IN PRINCIPLE.

Change definition to:

"1.4.338 Power Sourcing Equipment (PSE): A DTE or midspan device that provides the power to a single link section. PSEs are defined for use with two different types of balanced twisted-pair PHYs. When used with 2 or 4 pair balanced twisted-pair (BASE-T) PHYs, see IEEE Std 802.3, Clause 33 and Clause 145, Power over Ethernet is intended to provide a single 10BASE-T, 100BASE-TX, 1000BASE-T, 2.5GBASE-T, 5GBASE-T, or 10GBASE-T device with a unified interface for both the data it requires and the power to process these data. When used with single balanced twisted-pair (BASE-T) PHYs (see IEEE Std 802.3, Clause 104), Power over Data Lines is intended to provide a single 100BASE-T1 device with a unified interface for both the data it requires and the power to process these data. A PSE used with balanced single twisted-pair PHYs is also referred to as a PoDL PSE."

with editorial practices outlined in the suggested remedy.

This resolution is identical to comment #3.

C/ 1	SC 1.4.417	P 25	L 6	# r01-327
Stewart, I	Heath	Analog	Devices Inc.	
Comment	t Type E	Comment Status	R	Editorial
a verl A PD	b. that requests Clas		ayer classification	written each clause requires , supports Multiple-Event .3, Clause 33).
Suggeste	dRemedy			
Add "	supports" before "I	Data Link Layer"		
Response REJE		Response Status	с	
Com	ment should addres	ss line 17. The chang	ge requested is alr	eady in the definition.
C/ 30	SC 30.9.1.1.5	b P37	L 27	# r01-329
Stewart, H	Heath	Analog	Devices Inc.	
Commen	51	Comment Status		Editorial

aPSEPowerDetectionStatusA and B both have similar NOTE text. However, in the B version the NOTE- is missing.

SuggestedRemedy

Add "NOTE-" prior to "A derivative attribute may wish to apply a delay"

Response Response Status C

ACCEPT IN PRINCIPLE.

Add "NOTE -- " at the start of the text.

This resolution is identical to comment #9.

C/ 30 SC 30.9.1.1.9 P 39 L 29 # [r01-331] Stewart, Heath Analog Devices Inc. Image: Content of the second s	C/ 145 SC 145.2.5.4 P 120 L 6 # r01-335 Stewart, Heath Analog Devices Inc. Figure 100 - 300 -
Comment Type T Comment Status A Management Since aPSEOverLoadCounter was split into 3 versions the original aPSEOverLoadCounter no longer needs to handle the primary and secondary counts.	Comment Type TR Comment Status A Editoria Typo during comment execution. Error_condition_pri appears twice. Second occurrence should be error_condition_sec.
SuggestedRemedy Change This counter is incremented when the PSE state diagram (Figure 33-9, Figure 145-13, Figure 145-15, and Figure 145-16) enters the state ERROR_DELAY, ERROR_DELAY_PRI, or ERROR_DELAY_SEC. to This counter is incremented when the PSE state diagram (Figure 33-9 and Figure 145-13) enters the state ERROR_DELAY.	SuggestedRemedy Change error_condition_pri to error_condition_sec. Response Response Status C ACCEPT IN PRINCIPLE. Change error_condition_pri on p120/line 7 to error_condition_sec This resolution is identical to comment #149.
Response Response Status C ACCEPT.	C/ 145 SC 145.2.5.4 P 121 L 42 # [r01-336] Stewart, Heath Analog Devices Inc.
Cl 145 SC 145.1.3 P106 L 18 # r01-334 Stewart, Heath Analog Devices Inc. Editorial Comment Type E Comment Status A Editorial Various phrases relating to pairset DC (loop) resistance have been adjusted. Now one phrase contains word ordering which is inconsistent with the others. Fairset DC loop resistance maximum pairset DC loop resistance actual DC pairset resistance SuggestedRemedy Change actual DC pairset resistance to actual pairset DC resistance Editorial	Comment Type TR Comment Status A PSE S option_detect_ted_timer_pri/sec both refer to ted_timer when they should be referring to their respective timers ted_timer_pri/sec. 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. Response Response Status C ACCEPT.
Response Response Status C ACCEPT.	

C/ 145 SC 145.2.5.5 P 127 L 48 # [r01-337] Stewart, Heath Analog Devices Inc. Analog Devices Inc. Inc. Inc.	Cl 145 SC 145.2.8.5.1 P 166 L 18 # [r01-341] Stewart, Heath Analog Devices Inc.
Comment Type TR Comment Status A PSE SD and should be through tcev_timer_pri A timer used to limit the second and fourth class events A	Comment TypeEComment StatusAEditorialExtraneous the. The degree to which the current is unbalanced depends on the specific combination of PSE, cabling, and the PD.EE
SuggestedRemedy Change line 47 and line 51 second and fourth to second through fourth	SuggestedRemedy Change "and the PD" to "and PD" Response Response Status CCEPT.
Response Response Status C ACCEPT IN PRINCIPLE.	Cl 145 SC 145.2.8.5.1 P 166 L 44 # r01-342 Stewart, Heath Analog Devices Inc. Finite Content of the second s
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.	Comment Type TR Comment Status A 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? Unbalance
This resolution is identical to comment #160. Cl 145 SC 145.2.5.6 P 130 L 1 # [r01-338] Stewart, Heath Analog Devices Inc.	SuggestedRemedy Delete The PSE PI connector (jack) when mated with a specified balanced cabling connector (plug) shall meet the requirements of 145.2.8.5.1.
Comment Type E Comment Status A Editorial This functions discovers. Should be function in the singular. E	Response Response Status C ACCEPT IN PRINCIPLE.
SuggestedRemedy Change This functions discovers to This function discovers Response Response Status C ACCEPT.	delete page 166, lines 44-45 (the quoted sentence in the comment), and insert new sentence after the sentence ending on line 30 of page 167 (sentence begins on line 29 "A PSE shall not source"), new sentence to read ""This unbalance current requirement applies at the PSE PI connector (jack) when mated with a specified balanced cabling connector (plug)."

C/ 145 SC Stewart, Heath	145.2.8.10	P 172 Analog Device	L 41 es Inc.	# r01-343	C/ 145 Stewart, He	SC 145.3. eath		P 177 Analog Devic	L 36 es Inc.	# r01-345
Comment Type Extraneous t The specifica SuggestedReme	he. ation for VOff in Table	ent Status A e 145-16 shall app	ly to the PI volta	<i>Editorial</i> ge in the IDLE.	Suggested	ock is not alig		Status A		Editorial
То	ation for VOff in Table		,		Response ACCEI		Response S	Status C		
Response ACCEPT IN	,	se Status C			C/ 145 Stewart, He	SC 145.3.2 eath	-	P 177 Analog Devic	L 40 es Inc.	# r01-346
Remove this	sentence. on is identical to com	ment #215.				g "in"			ot required to sw	<i>Editorial</i>
Stewart, Heath Comment Type	145.3.2 E Comme e 145-19 is broken	P 176 Analog Device ent Status A	L 35 es Inc.	# [<u>r01-344</u>	Suggested Chang Response ACCEI	e "defined 14	5.4.1.1.1" to "defii <i>Response</i> S		.1.1"	
SuggestedReme Fix link Response ACCEPT IN	Respons	se Status C			C/ 145 Stewart, He Comment [®] The us	Туре Е				# r <u>01-347</u> Nopower
	e capable of acceptin ation as defined in Ta		lid 2-pair configu	ation and any valid 4-		end of descri		ity between PS	SE and PD is no	longer guaranteed.
fix link which	is broken. on is identical to com	ment #221.				PT IN PRINC		Status C		
					http://v	/ww.ieee802.0	org/3/bt/public/nov	v17/yseboodt_	_08_1117_final.p	df

C/ 145 SC 145.3.3.3 Stewart, Heath	P 178 Analog Device	L 45 es Inc.	# r01-348	C/ 145 Stewart, He	SC 145.3.3 eath	.5	P 181 Analog Devid	L 27 ces Inc.	# r01-350
	omment Status A		Nopower	Comment		Comme	nt Status A		PD SE
There are two false entries f	or nopower. This is cert	ainly a typo.	,	The sir	ngle-signature	tpowerdly_tim	ner description ha	as become out of	sync with the dual
SuggestedRemedy				signatu	ire description.				
Change				A PD is	s allowed to re	y on the PSE	inrush limiting f	or the entire tinru	sh_PD time (50ms).
FALSE: The PD has been in To	NOPOWER.			Suggested	Remedy				
TRUE: The PD has been in	NOPOWER.			Chang					
Response Response Status C ACCEPT IN PRINCIPLE.							m drawing more e Tdelay in Table		and IInrush_PD-2P
adopt changes shown in				to A timer used to prevent the PD from drawing more than IInrush_PD and IInrush_PD-2P from TInrush_PD to Tdelay. See Table 145-29.					
http://www.ieee802.org/3/bt/	public/nov17/yseboodt_	08_1117_final.pd	df	Response	_		e Status C		
This resolution is identical to	comment #227.			ACCE	PT.	,	-		
C/ 145 SC 145.3.3.5 Stewart, Heath	P 181 Analog Device	L 25	# r01-349	C/ 145 Stewart, He	SC 145.3.3	.8	P 185 Analog Devid	L 40	# r01-351
	omment Status A		Pres: Yseboodt8	Comment		Commo	nt Status A	es me.	PD SE
A PD is allowed to rely on the text subclauses refer correct	e PSE inrush limiting fo	r the entire tinrus		A bund	h of constants	were moved			stants section to the
SuggestedRemedy				Suggested			U		
Change "tInrush_PD" to "tIn	rush_PD max"			00		_PD, Von_P[D and Vreset_tb	to variables subc	lause.
Also change on page 188, li	nes 3 and 6.			Response		Respons	e Status C		
Response Re ACCEPT IN PRINCIPLE.	esponse Status C			ACCE	PT IN PRINCIE	•	-		
adopt changes shown in http://www.ieee802.org/3/bt/	public/nov17/yseboodt_	08_1117_final.pd	df	(variab				rom 145.3.3.8 (co	onstants) to 145.3.3.9
				2.10.11	J				

	252	C/ 145	SC -	145.3.3.9		P186	L11	# r01-354
Stewart, Heath Analog Devices Inc.	332	Stewart, He		145.5.5.9		Analog Devid		# 101-354
		,		_	0	0	565 mc.	
Comment Type E Comment Status A Changes were made to Vreset_PD in the single-signature PD constant description	PD SD and	Comment 7 The pd		E nt limit va	Comment		e sinale-sianatu	PD SI re state machine but
should be mirrored in the dual-signature PD constants section.	ana					ature state ma		
SuggestedRemedy		Suggestedl	Remed	ly				
Change VReset_PD Reset voltage per pairset to			m Figu	ire 145-28		nt_limit_mode(DLE, INRUSH,		WER_DELAY and
VReset_PD maximum The maximum PD reset voltage		Response			Response	Status C		
Response Response Status C ACCEPT IN PRINCIPLE.		ACCEF	PT IN F	PRINCIPLE	, <u>=</u> .			
Change variable name to "VReset_PD_max" and update description to match singl signature, also change name in statediagram.	le-	Remov diagran	• -	current_lim	it_mode(X) ir	n 145.3.3.9 an	d remove it's use	in the dual-sig state
		This rea	solutio	n is identic	al to comme	nt #230.		
This resolution is identical to comment #229.		C/ 145	SC ·	145.3.3.11		P 190	L 29	# r01-355
C/ 145 SC 145.3.3.9 P186 L 11 # r01-3	353	Stewart, He	eath			Analog Devid	ces Inc.	
Stewart, Heath Analog Devices Inc.	-	Comment 7	Γνρε	т	Comment	Status A		PD SI
Comment Type TR Comment Status A The nopower_mode(X) variable is not defined. Copy the nopower variable descripti implement.	PD SD ion and	state. I	n the d	ual-signati	ure state mad		ower_update_m	ed in the POWERED ode(X) is cleared in the
SuggestedRemedy		Suggestedl	Remed	ly				
Insert variable definition:		Move p	od_pow	/er_update	e_mode(X) <=	= FALSE from	POWER_UPDA	TE to POWERED
nopower_mode(X) A variable that indicates the PD has been in NOPOWER, which indicates VPD_mo	ode(X)	Response			Response	Status C		
 was below VOff_PD while being powered, since the last time VPD_mode(X) was be VReset for at least TReset. When nopower is TRUE interoperability between PSE a is no longer guaranteed. Values: FALSE: The PD mode has not been in NOPOWER. TRUE: The PD mode has been in NOPOWER. 	elow	ACCEF	PT.					
Response Response Status C								
ACCEPT IN PRINCIPLE.								
adopt changes shown in http://www.ieee802.org/3/bt/public/nov17/yseboodt_08_1117_final.pdf								
This resolution is identical to comment #227.								

C/ 145 SC 145.3.8.9	P205 L 50	# r01-356	C/ 145 SC 145.5.3.4.2 P230 L2	# r01-358
Stewart, Heath	Analog Devices Inc.		Stewart, Heath Analog Devices Inc.	
51	nent Status A	Pres: Darshan1	Comment Type TR Comment Status A	DL
It is extremely unclear how to int requirements. Are the requirements shall?	terpret the shall which shalls the ents limited to the sections shalls		Some of the pd_initial_value settings (class 6 and 8) were set based on as zero cable length. Perhaps this was in anticipation of a extended power us has been lost.	
SuggestedRemedy			SuggestedRemedy	
Delete The PD PI connector (jack) whe shall meet the requirements of 1		d cabling connector (plug)	Change 6 600 8 900	
Response Respo ACCEPT IN PRINCIPLE.	nse Status C		to 6 510 8 713	
	e quoted sentence in the commending on line 34 of page 206 (pre all not exceed"), new paragraph	vious paragraph begins on	Response Response Status C ACCEPT.	
current requirements for PDs ap specified balanced cabling conn	ply at the PD PI connector (jack)		Cl 145 SC 145.5.3.6.2 P 235 L 45 Stewart, Heath Analog Devices Inc.	# r01-359
This resolution is identical to cor	nment #287.		Comment Type TR Comment Status A	DL
C/ 145 SC 145.5.3.3.1	P225 L25	# r01-357	An old 35.5W number needs to be updated to 35.6W to track the rest of th	e clause.
Stewart, Heath	Analog Devices Inc.		SuggestedRemedy	
	nent Status A	DLL	Change 355 to 356	
<i>,</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ettings (class 6 and 8) were set b	ased on assumptions	Response Response Status C ACCEPT IN PRINCIPLE.	
SuggestedRemedy			- For pse_allocated_pwr_pri/sec=5 change pse_initial_value_alt(X) to 356	
Change 6 600			- Replace "pse_allocated_pwr_mode_pri/sec" to "pse_allocated_pwr_pri/sec" to "pse_allocated_pwr_pwr_pwr_pwr_pwr_pwr_pwr_pwr_pwr_pwr	ec"
8 900 to 6 510			This resolution is identical to comment #273.	
8 713				
	nse Status C			

This resolution is identical to comment #255.

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 r01-359

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C/ 145 SC 145.5.3.7.2 P239 L 32 # [r01-3	360	C/ 30 SC 30.9.1.1.6 P37	L 32 # r01-363				
Stewart, Heath Analog Devices Inc.		Stewart, Heath Analog Device	is Inc.				
Comment Type TR Comment Status A An old 35.5W number needs to be updated to 35.6W to track the rest of the clause	DLL e.	Comment Type TR Comment Status A *** Comment submitted with the file 94875700003-st	Pres: Stewart2 iewart_02_1117.pdf attached ***				
SuggestedRemedy Change 355 to 356 Response Response Status C		The aPSEPowerDetectionStatus was split into 3 vers single-signature and two for Cl 145 dual-signature A/ should get the same treatment.	•				
ACCEPT IN PRINCIPLE.		SuggestedRemedy See stewart_02_1117.pdf for remedy.					
 For pd_req_class_mode(X)=5 change pd_dll_max_value_mode(X) to 356 This resolution is identical to comment #274. 		Response Response Status C ACCEPT IN PRINCIPLE.					
C/ 145C SC 145C.1 P287 L 29 # [r01-3	361	Adopt changes in http://www.ieee802.org/3/bt/public/	/nov17/stewart_02_1117_final.pdf				
Stewart, Heath Analog Devices Inc.		C/ 30 SC 30.12.2.1.18h P45	L 2 # r01-364				
Comment Type E Comment Status A	Editorial	Stewart, Heath Analog Device	es Inc.				
A Class 4 PD is correct described in the adjancent text as drawing 25.5W but Figure 1 and 145C-2 show 25 W.	re 145C-	Comment Type TR Comment Status A	Pres: Stewart				
SuggestedRemedy		*** Comment submitted with the file 94875800003-st	ewart_03_1117.pdf attached				
Change 25W to 25.5W		aLldpXdot3Loc/RemDualSigPowerClassExtModeA/B are all seemingly redundant with the					
Response Response Status C		ill-formed aLldpXdot3Loc/RemPowerClassExtA/B versions. By collapsing and these definitions it will make more sense.					
ACCEPT IN PRINCIPLE.		SuggestedRemedy					
change to 25.5W		See stewart_03_1117.pdf for remedy.					
This resolution is identical to comment #39.		Response Response Status C ACCEPT IN PRINCIPLE.					
		adopt changes in http://www.ieee802.org/3/bt/public/	nov17/stewart 03 1117 final odf				

C/ 145 SC 145.2.5.7 P 145 L 10 # [r01-365] Stewart, Heath Analog Devices Inc. Figure 100 - 365 Figur	Cl 145 SC 145.2.8 P 161 L 25 # r01-366 Stewart, Heath Analog Devices Inc. #
Comment Type TR Comment Status A Pres: Darshan3 **** Comment submitted with the file 94875900003-stewart_04_1117.pdf attached *** A few issues exist. The usage of pd_req_pwr_pri in CLASS_EVAL_PRI is dated and does not account for the updated usage of pse_allocated_pwr_xxx. The main PSE state diagram correctly references pse_allocated_pwr to decide if enough power exists to turn on PD. The	Comment Type TR Comment Status A Pres: Paul **** Comment submitted with the file 94876000003-paul_1117_01.pdf attached *** Changes made to unbalance in Draft 3.1 have created interoperability issues. The lunbalance-2P values should be reverted to the Draft 3.0 values.
pd_req_pwr_xxx variable is intended to communicate how much the PD requested, to the limit of the PSEs ability to know that information. The state machine CLASS_EVAL_PRI/SEC exit arcs need to reference the correct variable. The description of pd_req_pwr_pri/sec need to be updated to correctly describe the usage. The Class 0 encoding needs to be removed from the do_class_probe_pri/sec return variable enumeration since it is not a legal return value (see do_classification_pri/sec.) SuggestedRemedy See stewart_04_1117.pdf	SuggestedRemedy See paul_01_1117.pdf Response Response Status C ACCEPT IN PRINCIPLE. adopt changes shown in http://www.ieee802.org/3/bt/public/nov17/darshan_05_1117_final.pdf This resolution is identical to comment #441.
Response Response Status C	
ACCEPT IN PRINCIPLE. Adopt http://www.ieee802.org/3/bt/public/nov17/darshan_03_117_final.pdf This resolution is identical to comment #434.	Cl 145 SC 145.4.9.4.1 P 222 L 1 # r01-367 Mcclellan, Brett Marvell Semiconductor Marvell Semiconductor Editoria Comment Type E Comment Status A Editoria Table 145-38 has a single entry. No table is required. It can be changed to an equation. Editoria
[Editor's note added after comment resolution completed: There is a typo in the file name. The file used is http://www.ieee802.org/3/bt/public/nov17/darshan_03_1117_final.pdf]	SuggestedRemedy 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
	Response Response Status C
	·

 *** Comment submitted with the file 94876100003-stewart_01_1117.pdf attached *** Changes incorrectly pushed out to aPSEPowerDetectionStatus instead of aPSEPowerDetectionStatus S. This brings the removal of test mode into conflict with Clause 33. SuggestedRemedy See stewart_01_1117.pdf for remedy. Response Response Status C ACCEPT IN PRINCIPLE. Make the following changes: - undo the strikeouts for 'test' and 'otherFault' as we can't remove stuff from an existing object - Add 'or Figure 145-13'' after "Figure 33-9" - Insert "Type 3 and Type 4 PSEs do not use the values "test" or "otherFault" Capitalize TRUE *** Comment submitted with the file 94876200003-stewart_03_1117.pdf attached *** The aLldpXdot3Loc/RemPowerClassExt variable should contain Class enumerations buints dath as a cut/paste error containing PSE/PD enumerations. Similar error to aLldpXdot3Loc/RemPowerClassExt A/B. SuggestedRemedy See stewart_01_1117.pdf for remedy. Response Response Status C ACCEPT IN PRINCIPLE. Make the following changes: - undo the strikeouts for 'test' and 'otherFault' as we can't remove stuff from an existing object - Add "or Figure 145-13" after "Figure 33-9" - Insert "Type 3 and Type 4 PSEs do not use the values "test" or "otherFault" Capitalize TRUE Capitalize TRUE 	C/ 30 Stewart, H	SC 30.9.1.1.5 leath	5 P36 Analog Dev	L 11 ices Inc.	# r01-368	C/ 30 Stewart, ⊦		2.3.1.18k	P 56 Analog Devid	L 17 ces Inc.	# r01-370	
aPSEPowerDetectionStatusS. This brings the removal of test mode into conflict with Clause 33. instead has a cut/paste error containing PSE/PD enumerations. Similar error to alldpXdot3Loc/RemPowerClassExtA/B. SuggestedRemedy See stewart_01_1117.pdf for remedy. See stewart_01_1117.pdf for remedy. Response Response Status C ACCEPT IN PRINCIPLE. Make the following changes: - undo the strikeouts for test and otherFault' as we can't remove stuff from an existing object - Add 'or figure 145-13' after 'Figure 33-9" - insert 'Type 3 and Type 4 PSEs do not use the values "test" or 'otherFault'. - Capitalize TRUE adopt changes in http://www.ieee802.org/3/bt/public/nov17/stewart_03_1117_final.pdf C/ 145 SC 145.7.3.3 P 265 L 12 # [01-369] C/ 145 SC 145.7.3.3 P 265 L 12 # [01-369] C/ 145 SC 145.7.3.3 P 265 L 12 # [01-369] C/ 145 SC 145.7.3.3 P 265 L 12 # [01-369] C/ 145 SC 145.7.3.3 P 265 L 12 # [01-369] Meet the operating power limits after TLIM min* It is unclear what exactly is meant by the operating power limits'. SuggestedRemedy SuggestedRemedy Re-use 'In accordance with ILIM-2P and TLIM in Table 145-16' as in PSE76 Response Response Status C ACCEPT IN PRINCIPLE. Response Response		51		-stewart_01_1117						stewart_03_1117	Pres: Stewart3 .pdf attached ***	
See stewart_01_1117.pdf for remedy. See stewart_01_1117.pdf for remedy. Response Response Status C ACCEPT IN PRINCIPLE. Accept in PRINCIPLE. Make the following changes: - undo the strikeouts for 'test' and 'otherFault' as we can't remove stuff from an existing object - undo the strikeouts for 'Egure 145-13' after 'Figure 33-9' - Inset' 'Type 3 and 'Type 4 PSE's do not use the values 'test' or 'otherFault'. - Capitalize TRUE ON Semiconductor C/ 145 SC 145.7.3.3 P 265 Lemahieu, Joris ON Semiconductor Comment Type G Comment Status A Pres: Ysebu It is unclear what exactly is meant by 'the operating power limits'. SuggestedRemedy Response Response Status C ACCEPT IN PRINCIPLE. With ILIM-2P and TLIM in Table 145-16' as in PSE76 Response Response Status C ACCEPT IN PRINCIPLE. Accert IN PRINCIPLE. Update PICS to match text in D3.2. C This resolution is identical to comment #318. C	aPSE	PowerDetectionS										
Response Response Status C ACCEPT IN PRINCIPLE. Make the following changes: - undo the strikeouts for test and 'otherFault' as we can't remove stuff from an existing object - Add 'or Figure 145-13' after "Figure 33-9" - insert "Type 3 and Type 4 PSEs do not use the values "test" or "otherFault". adopt changes in http://www.ieee802.org/3/bt/public/nov17/stewart_03_1117_final.pdf This resolution is identical to comment #364. Cl 145 SC 145.7.3.3 P 265 L 12 # r01-369 Cl 145 SC 145.7.3.3 P 265 L 12 # r01-369 Lemahieu, Joris ON Semiconductor ON Semiconductor ON Semiconductor Comment Type G Comment Status A Pres: Ysebut it is confusing what is actually meant by The Source current specified in Table 145-30. SuggestedRemedy Response Status C ACCEPT IN PRINCIPLE. Source current specified in Table 145-16' as in PSE76 Response Response Status C ACCEPT IN PRINCIPLE. adopt changes in http://www.ieee802.org/3/bt/public/nov17/yseboodt_04_0117_final.pdf Update PICS to match text in D3.2. This resolution is identical to comment #318. Editor's note added after comment resolution completed: This resolution is identical to comment #318. There is a typo in the file name. The file used is	Suggested	dRemedy				Suggestee	dRemedy					
ACCEPT IN PRINCIPLE. ACCEPT IN PRINCIPLE. ACCEPT IN PRINCIPLE. Make the following changes: - undo the strikeouts for 'test' and 'otherFault' as we can't remove stuff from an existing object - Add 'or Figure 145-13' after "Figure 33-9" - insert "Type 3 and Type 4 PSEs do not use the values "test" or "otherFault". - Capitalize TRUE C/ 145 SC 145.7.3.3 P265 L12 # (r01-369) Comment Type G Comment Status A Pres: Yseb It is unclear what exactly is meant by 'the operating power limits. SuggestedRemedy Re-use "In accordance with ILIM-2P and TLIM in Table 145-16" as in PSE76 Response Response Status C ACCEPT IN PRINCIPLE. Update PICS to match text in D3.2. This resolution is identical to comment #318. ACCEPT IN PRINCIPLE. Adopt changes in http://www.ieee802.org/3/bi/public/nov17/yseboodt_04_0117_final.pdf This resolution is identical to comment #318. Accept in the file name. The file used is Accept in the file name. The file used is Accept in the file name. <	See st	tewart_01_1117.p	odf for remedy.			See s	tewart_03_1	117.pdf for ren	nedy.			
 - undo the strikeouts for 'test' and 'otherFault' as we can't remove stuff from an existing object - Add 'or Figure 13-13' after 'Figure 33-9'' - Insert "Type 3 and Type 4 PSEs do not use the values "test" or "otherFault". - Capitalize TRUE Cl 145 SC 145.7.3.3 P265 L 12 # 101-369 Lemahieu, Joris ON Semiconductor Comment Type G Comment Status A Pres: Ysebe It is confusing what is actually meant by The Source current specified in Table 145-30 is actually the per pairset current limit. Fo single-signature PDs, a voltage source with a current limit of twice this value may be us single-signature PDs, a voltage source with a current limit of twice this value may be us single-signature PDs, a voltage source with a current limit of twice this value may be us single-signature PDs, a voltage source with a current limit of twice this value may be us single-signature PDs, a voltage source with a current limit of twice this value may be us single-signature PDs, a voltage source with a current limit of twice this value may be us single-signature PDs, a voltage source with a current limit of twice this value may be us single-signature PDs, a voltage source with a current limit of twice this value may be us single-signature PDs. a voltage source with a current limit of twice this value may be us single-signature PDs. a voltage source with a current limit of twice this value may be us single-signature PDs. a voltage source with a current limit of twice this value may be us single-signature PDs. a voltage source with a current limit of twice this value may be us single-signature PDs. a voltage source with a current limit of twice this value may be us single-signature PDs. a voltage source with a current limit of twice this value may be us the source our source with a current limit of twice this value may be us adopt changes in http://www.ieee802.org/3/bt/public/nov17/yseboodt_04_0117_final.pdf This resolution is identical to comment #242. [Editor's			•					,	nse Status C			
Lemahieu, Joris ON Semiconductor It is confusing what is actually meant by The Source current specified in Table 145-30. Comment Type G Comment Status A "Meet the operating power limits after TLIM min" It is unclear what exactly is meant by 'the operating power limits'. SuggestedRemedy SuggestedRemedy Re-use "In accordance with ILIM-2P and TLIM in Table 145-16" as in PSE76 Response Response Status C ACCEPT IN PRINCIPLE. Update PICS to match text in D3.2. This resolution is identical to comment #318. This resolution is identical to comment #318. The file name. The file used is	- undo from a - Add - Inser	o the strikeouts fo an existing object "or Figure 145-13 rt "Type 3 and Ty	r ['] test' and 'otherFault' as v 3" after "Figure 33-9"			This resolution is identical to comment #364. C/ 145 SC 145.3.8.6 P 204 L 40 # r01-371						
"Meet the operating power limits after TLIM min" The Source current specified in Table 145-30 is actually the per pairset current limit. Fo "Is is unclear what exactly is meant by 'the operating power limits'. The Source current specified in Table 145-30 is actually the per pairset current limit. Fo SuggestedRemedy Response Response Status C Response Response Status C ACCEPT IN PRINCIPLE. adopt changes in http://www.ieee802.org/3/bt/public/nov17/yseboodt_04_0117_final.pdf Update PICS to match text in D3.2. This resolution is identical to comment #318. [Editor's note added after comment resolution completed: There is a typo in the file name. The file used is The suge and the file name. The file used is The file used is	-				# <u>r01-369</u>		51			e current specifie	Pres: Yseboodt4 ed in Table 145-30.	
Re-use "In accordance with ILIM-2P and TLIM in Table 145-16" as in PSE76 ACCEPT IN PRINCIPLE. Response Response Status C ACCEPT IN PRINCIPLE. adopt changes in http://www.ieee802.org/3/bt/public/nov17/yseboodt_04_0117_final.pdf Update PICS to match text in D3.2. This resolution is identical to comment #318. This resolution is identical to comment #318. There is a typo in the file name. The file used is	"Meet	the operating por	wer limits after TLIM min"	g power limits'.	PICS	The S	ource currer					
Re-use "In accordance with ILIM-2P and TLIM in Table 145-16" as in PSE76 ACCEPT IN PRINCIPLE. Response Response Status C ACCEPT IN PRINCIPLE. adopt changes in http://www.ieee802.org/3/bt/public/nov17/yseboodt_04_0117_final.pdf Update PICS to match text in D3.2. This resolution is identical to comment #318. This resolution is identical to comment #318. There is a typo in the file name. The file used is	Suaaested	dRemedv				Response		Respor	nse Status C			
ACCEPT IN PRINCIPLE. Update PICS to match text in D3.2. This resolution is identical to comment #318. There is a typo in the file name. The file used is	00		with ILIM-2P and TLIM in	Table 145-16" as i	n PSE76	ACCE	PT IN PRIN	CIPLE.				
Update PICS to match text in D3.2. This resolution is identical to comment #242. This resolution is identical to comment #318. [Editor's note added after comment resolution completed: There is a typo in the file name. The file used is The file used is	•					adopt	changes in I	nttp://www.ieee	e802.org/3/bt/publi	c/nov17/ysebood	t_04_0117_final.pdf	
This resolution is identical to comment #318. There is a typo in the file name. The file used is		-				This r	esolution is i	dentical to con	nment #242.			
This resolution is identical to comment #318. There is a typo in the file name. The file used is	Updat	e PICS to match	text in D3.2.			[Edito	r's note adde	ad after comme	ent resolution com	nleted:		
	This re	esolution is identi	cal to comment #318.			-				pietou.		
										_04_1117_final.p	df]	

C/ 145 SC 145.3.8.6 Lemahieu, Joris	P 204 ON Semiconduc	L 40 ctor	# r01-372	<i>Cl</i> 145 Stover, Da	SC 145.2 . vid	8.5.1	P 168 Analog Devic	L 51 es Inc.	# r01-374
Comment Type GR It is confusing what is actu	Comment Status A ually meant by The Source re	esistance spe	Pres: Yseboodt4 ecified in Table 145-30.	<i>Comment</i> Iunbal			ent Status A 45-16; is defined i	in Table 145-17.	Editoria
SuggestedRemedy The Source resistance sp single-signature PDs, the this value.	ecified in Table 145-30 is ac equivalent resistance betwe Response Status C	tually the per	pairset resistance. For	Suggested Chang Response ACCE	<i>IRemedy</i> Je "as defined PT.	in Table 145-	16" to "as defined se Status C	in Table 145-17'	
	ww.ieee802.org/3/bt/public/n			C/ 145 Stover, Da	SC 145.1 vid		P103 Analog Devic	L 40 es Inc	# r01-375
There is a typo in the file	comment resolution complet		pdf]	alloca 1) Are conne 2) "allo	thod for a PS te power." we worried a cted"?	E and the PD to pout the reade Indant to "nego	r interpreting this	as "the PD to wh	<i>Editorial</i> cally negotiate and nich it is not cates power and/or the
Cl 145 SC 145.3.8.6 Lemahieu, Joris	P 204 ON Semiconduc	L 47 ctor	# <u>r01-373</u>		e: "A method				o dynamically negotiate y negotiate power"
This seems to contradict	Comment Status A s the effective 4-pair resistar with 'Rch' in the table that is e, as defined in Table 145-1.	defined as "F		Response ACCE Chang	PT IN PRINC le: "A method locate power"	Respons IPLE. for a PSE and	se Status C	it is connected to	o dynamically negotiate
ACCEPT IN PRINCIPLE. adopt changes in http://ww This resolution is identica [Editor's note added after There is a typo in the file	comment resolution complet	ted:							

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

Page 96 of 130 12/1/2017 3:17:24 PM

C/ 145 SC 145.1.3 P105	L 45	# r01-376	C/ 145 S	C 145.3.8.9	P 207	L 17	# r01-378
Stover, David Analog Dev	vices Inc.		Stover, David		Analog Devic	es Inc.	
Comment Type T Comment Status R		PSE Types	Comment Type	т	Comment Status A		Pres: Darshan
"For 2-pair systems that provide Class 4 power or source Icable" easily misinterpreted as though the Add "in order for", which matches related Icable s SuggestedRemedy	ere is a minimum o	current requirement.	statements resistance	on page 20	"any voltage in the range of 6. Vsource is specified behir des PSE resistance contribut 2P at the virtual PSE output	nd Rsource, whil tions. Actually, V	e Rsource lumped
Change "For 2-pair systems that provide Class 4	nower or less two	twisted nairs are	SuggestedRem	edy			
required to source lcable" to "For 2-pair systems in twisted pairs are required in order for the PSE to s	that provide Class				urce1, Rsource2. Specify Vs Rsource2. TFTD values of I		
Response Response Status C			Response		Response Status C		
REJECT.			ACCEPT IN		E.		
Comment is out of scope of the recirculation. Comproposes a substantive text change which does n	not identify a mater	ial problem in the draft.			/www.ieee802.org/3/bt/public	:/nov17/darshan	_01_1117_final.pdf
Cl 145 SC 145.2.4 P 115 Stover, David Analog Dev	L6 vices Inc.	# r01-377	C/ 145 SC	C 145.2.5.3	P118	L1	# r01-379
Comment Type E Comment Status A		Editorial	Stover, David		Analog Devic	es Inc.	
"are called Alternatives A and Alternative B" mixe	ed form	Lanonar	Comment Type	ER	Comment Status A		Editoria
SuggestedRemedy			"For a dual- Missing "on		D, parallel detection means	that detection bo	oth pairsets is done "
Change "Alternatives A" to "Alternative A"			SuggestedRem	edy			
Response Response Status C			Change "the	at detection	both pairsets" to "that detec	tion on both pair	sets"
ACCEPT IN PRINCIPLE.			Response		Response Status C		
" which for PSEs are named Alternative A and A	Alternative B."		ACCEPT IN	I PRINCIPL	E.		
This resolution is identical to comment #137.			time period	tection refe	rs to detection on both pairse fers to detection on both pair	01	
			This resolut	ion is identi	cal to comment #141.		

C/ 145 Stover, David	SC 145.2.5.4	P 123 Analog Devic	L 8 es Inc.	# r01-380	C/ 145 Stover, Dav	SC 145.2.5. 4 vid	4	P 132 Analog Devid	L 51 ces Inc.	# r01-383
Comment Type "to determ		Comment Status A		Editorial	Comment Bad ali	<i>Type</i> E ignment of "the	Comment PI." in definitio		dual.	Editorial
	o "to determine	PD Type" (four places; pd_ _class_probe_sec). <i>Response Status</i> C	_cls_4PID_pri a	nd pd_cls_4PID_sec,	Response	gnment	Response	Status C		
ACCEPT.					ACCEI	PT.				
C/ 145 Stover, David	SC 145.2.5.4	P 128 Analog Devic	L 43	# r01-381	C/ 145 Stover, Dav	SC 145.2.5. vid	7	P 140 Analog Devid	L 5 ces Inc.	# r01-386
Comment Type		Comment Status A		Editorial	Comment SEMI_	<i>Type</i> E PWRON_X sta	<i>Comment</i> tes have an ur			Editorial
SuggestedRer	medy	ences "Tinrush-2P", which n	o longer exists.		S <i>uggested</i> Adjust	-	to match state	e contents for S	EMI_PWRON_I	PRI, _SEC states.
Change "I Response ACCEPT.	Finrush-2P" to	"Tinrush". Response Status C			Response ACCEI	PT IN PRINCIP	Response LE.	Status C		
C/ 145 Stover, David	SC 145.2.5.4	P 131 Analog Devic	L 35 es Inc.	# r01-382		w state and corr				
	statement "(p	Comment Status A d_class_sig_pri will have a			C/ 145 Stover, Dav	SC 145.2.5.	7	P 140 Analog Devid	L 5 ces Inc.	# r01-387
call out Ta	able 145-27, w	subsequent class events.)" hich indicates class_sig_a a			Comment Transit	51		Status A EMI_PWRON_	PRI and POWE	<i>Editorial</i> R_DENIED
SuggestedRer Delete floa	•	t (2 locations: do_classificat	ion_pri and do_	classification_sec).	Suggested	Remedy				
Response		Response Status C			Chang	e "!power_avail	-" to "!power_a	available"		
ACCEPTI		, , , , , , , , , , , , , , , , , , ,			Response ACCEI	PT IN PRINCIP	Response	Status C		
Remove q	uoted text her	e and also in do_classificat	ion_sec.			-				
This resolu	ution is identic	al to comment #165.				w state and corr				

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 Stover, David	P 162 Analog Device	L 32	# r01-388	Cl 145 Stover, David	SC 145.3.2		P 176 Analog Device	L 48	# r01-390		
	0	35 IIIC.		,			•	es mc.	- <i>v</i>		
Comment Type TR Ptype for Type 3 PSEs SuggestedRemedy	Comment Status R is never referenced anywher	e in the draft.	PSE Power		shall withstan	Comment S d any voltage frond ng a preposition	om 0V to 57V	applied any of t	Editoria he valid		
Delete Ptype for Type 3	PSEs			SuggestedRe	medy						
Response	Response Status C			Change "applied any of the valid" to "applied to any of the valid" <i>Response</i> <i>Response</i> <i>C</i>							
REJECT.				ACCEPT	IN PRINCIPL	,	-				
Ptype is referenced on	page 173, line 6. It states:			"The PD :	shall withstan	d any voltage fr	om 0 V to 57 '	V applied **per*	* any of the valid		
PType min is the minim	um power a PSE is capable	of sourcing.		configura	ions defined	in Table 145-20	indefinitely w	ithout permaner	nt damage."		
Which is a requirement	on both Type 3 and Type 4	PSEs.		This reso	ution is ident	ical to comment	t #222 .				
C/ 145 SC 145.2.8 Stover, David	P 162 Analog Device	L 34 es Inc.	# <u>r01-389</u>	C/ 145 Stover, David	SC 145.2.5.7		P 143 Analog Device	L 22 es Inc.	# <u>r01-391</u>		
Comment Type TR	Comment Status R		PSE Power	Comment Typ	e TR	Comment S	tatus A		Pres: Stover		
listed value (75W) is wr	SEs is never referenced any ong.	where in the draft.	. Furthermore, the	"In PSE c	ual-sig class	diagrams, CLAS	SS_EV1_LCE	tover_02_1117. _4PID_X states lass_ev1 respon			
listed value (75W) is wr SuggestedRemedy	SEs is never referenced any ong. pe 4 PSEs. Replace with an			"In PSE c ""pd_clas between could hav	ual-sig class s_sig_x = 4"" class reset ev	diagrams, CLAs as a double-che	SS_EV1_LCE eck that PD cl class_probe d	_4PID_X states lass_ev1 respon	check for		
listed value (75W) is wr SuggestedRemedy Delete Ptype,min for Ty a single value: 99.9W.	ong.			"In PSE c ""pd_clas between could hav To fix: 1) ensure	ual-sig class s_sig_x = 4"" class reset ev e been any v that pd_class	diagrams, CLA as a double-che vents. Now that o alid class_sig (n s_sig_x from cla	SS_EV1_LCE eck that PD cl class_probe d not just 4). ass_ev1 is rec	_4PID_X states lass_ev1 respon lumps into this s corded to temp_\	check for se has not changed		
listed value (75W) is wr SuggestedRemedy Delete Ptype,min for Ty a single value: 99.9W. Response REJECT.	ong. rpe 4 PSEs. Replace with an			"In PSE c ""pd_clas between could hav To fix: 1) ensure 2) compa SuggestedRe	ual-sig class s_sig_x = 4"" class reset ev e been any v that pd_class re temp_var_ <i>medy</i>	diagrams, CLAS as a double-che rents. Now that a alid class_sig (r s_sig_x from cla x to pd_class_s	SS_EV1_LCE eck that PD cl class_probe d not just 4). ass_ev1 is rec	_4PID_X states lass_ev1 respon lumps into this s corded to temp_\	check for se has not changed tate, pd_class_sig_x var_x in all cases, and,		
listed value (75W) is wr SuggestedRemedy Delete Ptype,min for Ty a single value: 99.9W. Response REJECT. Ptype is referenced on	ong. rpe 4 PSEs. Replace with an <i>Response Status</i> C	endash, or simila		"In PSE c ""pd_clas between could hav To fix: 1) ensure 2) compa SuggestedRe	ual-sig class s_sig_x = 4"" class reset ev e been any v that pd_class re temp_var_	diagrams, CLAS as a double-che rents. Now that a alid class_sig (r s_sig_x from cla x to pd_class_s	SS_EV1_LCE eck that PD cl class_probe d not just 4). ass_ev1 is rec ig_x when exi	_4PID_X states lass_ev1 respon lumps into this s corded to temp_\	check for se has not changed tate, pd_class_sig_x var_x in all cases, and,		
listed value (75W) is wr SuggestedRemedy Delete Ptype,min for Ty a single value: 99.9W. Response REJECT. Ptype is referenced on PType min is the minim	ong. rpe 4 PSEs. Replace with an <i>Response Status</i> C page 173, line 6. It states:	endash, or simila of sourcing.		"In PSE o ""pd_clas between could hav To fix: 1) ensure 2) compa SuggestedRe Adopt sto Response	ual-sig class s_sig_x = 4"" class reset ev e been any v that pd_class re temp_var_ <i>medy</i>	diagrams, CLAS as a double-cho vents. Now that a alid class_sig (n s_sig_x from cla x to pd_class_s pdf <i>Response St</i>	SS_EV1_LCE eck that PD cl class_probe d not just 4). ass_ev1 is rec ig_x when exi	_4PID_X states lass_ev1 respon lumps into this s corded to temp_\	check for se has not changed tate, pd_class_sig_x var_x in all cases, and,		
listed value (75W) is wr SuggestedRemedy Delete Ptype,min for Ty a single value: 99.9W. Response REJECT. Ptype is referenced on PType min is the minim	ong. pe 4 PSEs. Replace with an <i>Response Status</i> C page 173, line 6. It states: hum power a PSE is capable	endash, or simila of sourcing.		"In PSE o ""pd_clas between could hav To fix: 1) ensure 2) compa SuggestedRe Adopt sto Response ACCEPT	ual-sig class s_sig_x = 4" class reset event e been any v that pd_class re temp_var_ <i>medy</i> ver_02_1117 IN PRINCIPL	diagrams, CLAS as a double-che vents. Now that a alid class_sig (n s_sig_x from cla x to pd_class_s .pdf <i>Response St</i> .E.	SS_EV1_LCE eck that PD cl class_probe d not just 4). ass_ev1 is rec ig_x when exi tatus W	_4PID_X states lass_ev1 respon lumps into this s corded to temp_\	check for se has not changed tate, pd_class_sig_x /ar_x in all cases, and, S_EV1_LCE_4PID_X."		
listed value (75W) is wr SuggestedRemedy Delete Ptype,min for Ty a single value: 99.9W. Response REJECT. Ptype is referenced on PType min is the minim	ong. pe 4 PSEs. Replace with an <i>Response Status</i> C page 173, line 6. It states: hum power a PSE is capable	endash, or simila of sourcing.		"In PSE o ""pd_clas between could hav To fix: 1) ensure 2) compa SuggestedRe Adopt sto Response ACCEPT Adopt http	ual-sig class s_sig_x = 4"" class reset event e been any v that pd_class re temp_var_ <i>medy</i> ver_02_1117 IN PRINCIPL b://www.ieee8	diagrams, CLAS as a double-che vents. Now that a alid class_sig (n s_sig_x from cla x to pd_class_s .pdf <i>Response St</i> .E.	SS_EV1_LCE eck that PD cl class_probe d not just 4). ass_ev1 is rec ig_x when exi tatus W lic/nov17/dars	-4PID_X states lass_ev1 respon lumps into this s corded to temp_v ting state CLAS	check for se has not changed tate, pd_class_sig_x /ar_x in all cases, and, S_EV1_LCE_4PID_X."		
listed value (75W) is wr SuggestedRemedy Delete Ptype,min for Ty a single value: 99.9W. Response REJECT. Ptype is referenced on PType min is the minim	ong. pe 4 PSEs. Replace with an <i>Response Status</i> C page 173, line 6. It states: hum power a PSE is capable	endash, or simila of sourcing.		"In PSE o ""pd_clas between o could hav To fix: 1) ensure 2) compa SuggestedRe Adopt sto Response ACCEPT Adopt http This reso	ual-sig class s_sig_x = 4"" class reset event e been any v that pd_class re temp_var_ <i>medy</i> ver_02_1117 IN PRINCIPL D://www.ieee8 ution is ident	diagrams, CLAS as a double-che rents. Now that o alid class_sig (n s_sig_x from cla x to pd_class_s .pdf <i>Response St</i> .E. 302.org/3/bt/pub	SS_EV1_LCE eck that PD cl class_probe d not just 4). ass_ev1 is rec ig_x when exi tatus W lic/nov17/dars t #434.	4PID_X states lass_ev1 respon lumps into this s corded to temp_\ ting state CLAS	check for se has not changed tate, pd_class_sig_x /ar_x in all cases, and, S_EV1_LCE_4PID_X."		

C/ 145 S Stover, David	C 145.3.5	P 192 Analog Devices	L 22 s Inc.	# r01-392	Cl 145 Johnson, F	SC 145.3 Peter	8	P 198	L 39	# r01-394
Comment Type	TR	Comment Status A		Pres: Stover1	Comment	Tvpe T	Co	mment Status A		PD Power
*** Comme	ent submittee	d with the file 94876400003-sto		pdf attached ***	Draft 3 Table	.1 still has th 145-29 are so	e issue wl ometimes	here parameters enter treated as ranges and and 9) are CLEARLY	sometimes treat	with no Minimums in ted as constants.
SuggestedRem				v	Pclass	_PD. Howe	ver Pclass	s_PD, Ppeak_PD, and	their 2P equivale	ents are CLEARLY
Adopt stove	,	.pdf						ich in the text (e.g. 145		B) and similarly in the problem as Pclass (and problem)
Response		Response Status W						uations with maximum		
ACCEPT I		•			Suggested	Remedy				
http://www.	ieee802.org	as "alternative 2" on pages 7 a /3/bt/public/nov17/stover_01_	1117_final.pdf	// [2P (ad there a include	ding 2 colum are equations as the colum	ns). It is in the PS i "Assigne	ide Pclass_PD, Pclass not inappropriate to pla E section that use all f ed Class" - so it has the	ace these in the our parameters.	PSE section because Table 145-11
	C 145.3.8.6	P 204 ON Semicondu	L 52	# r01-393		remove the				
Lemahieu, Joris Comment Type		Comment Status R		Pres: Yseboodt4	Response	PT IN PRINC		sponse Status C		
TR1 and TI backup pov TR3 is a ve related to lo having a lo expect the Peak curre For the res come from	R2 cover lor wer supplies ery fast (0.7 ⁻ bad changes wer interme Cport to dis nts way belo t the definition. Also how s	defining TR3? ng ("lasting more than 250 is") I us is way below 250us and events s one would expect the initial a diate voltage. If the fall and ris charge and recharge much. by Ilim are listed and expected on seems completely arbitrary should the 1.50hm and 5A be in	ven 30us). For ind final voltagi e times are sm I to happen. : where do the	relatively fast transients e to be the same and all, one would not 5A 1.5ohm and 4ms	Pport_ Pport_ Equati Pport_	PD-2P is the on 145-23b. PD = VPD *	ver drawn power dra port (14	i by a single-signature awn by a given Mode c I5-23a) P (145-23b)		
dual signat The definiti		eeds to be reworked complete	ely anyhow.					(, ,		
SuggestedRem	•		-			igle-signature signed class.	PDS, the	e average value of Ppo	π_PD shall not e	exceed Pclass_PD for
I think it is	better to jus	t delete the TR3 requirement.			For a c	lual-signatur	PD the	average value of Pport	t PD-2P shall no	t avcaad Polass PD-
Response REJECT.		Response Status U				the assigned	,	average value of 1 point		
		on group believes that deleting	the requireme	nt can lead to system						

C/ 145 SC 145.2.7 P156 L 32 # r01-395 Johnson, Peter	Cl 79 SC 79.3.2.6c P 86 L 10 # r01-397 Skinner, John
Comment Type T Comment Status A PSE Power	Comment Type E Comment Status A Editoria
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.	Function 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	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	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.
Response Response Status C	Response Response Status C
ACCEPT IN PRINCIPLE.	ACCEPT.
Change to:	C/ 79 SC 79.3.2.6d.2 P87 L 50 # r01-398
NOTE 1: Pclass in Table 145-11 is the minimum.	Skinner, John
NOTE 2: Pclass-2P in Table 145-11 is the minimum.	Comment Type E Comment Status A
Cl 145 SC 145.2.7 P156 L 32 # r01-396 Johnson, Peter Comment Type T Comment Status A Editorial	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.
Table 145-11 footnotes NOTE 1 and NOTE 2 point to Tables 145-26 and 145-27 to get the	SuggestedRemedy
"maximum power available of PDs". Tables 145-26 and 145-27 provide "Requested Power" values but have no concept of assigned PD class that defines maximum power	The clause should be renumbered 79.3.2.4.2 "PD 4PID", and should be located after line 44 on page 83.
available.	Response Response Status C
SuggestedRemedy	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.)	- Delete subclause 79.3.2.6d.2 - Add new subclause under 79.3.2.4 title "PD 4PID" with content:
Response Response Status C	This field shall be set according to Table 79-4 when the power type is PD to indicate
ACCEPT IN PRINCIPLE.	whether the PD support powering of both Modes simultaneously. This field shall be set to '0' when the power type is PSE.
Change "For maximum power available to PDs,"	

Cl 145 SC 145.5.4 Skinner, John	P 244	L 7	# r01-399	C/ 145 SC 145 Skinner, John	5.5.6.2	P 247	L 4	# r01-401
reference is incorrect. Sa 145-42". SuggestedRemedy Change the table referent table referenced on line a Response ACCEPT. Cl 145 SC 145.5.5.1 Skinner, John Comment Type E The statement "When th power allocation." is too transition from PSE_POV conditions: Either (pse_r	Comment Status A hall use values in the range ime problem exists for the ra- ced on line 7 from Table 14 3 from Table 145-42 to Tabl Response Status C P245 Comment Status A e PSE is not in sync with the broad, based on the condition VER_REVIEW to MIRROR ew_value < PSEAllocatedPue=MirroredPSEAllocatedPue	eference on line 5-41 to Table 14 e 145-43. <i>L</i> 20 e PD, the PSE is ons shown in Fig UPDATE is go owerValue) OR	# 8 for PDs "Table 45-42. Change the # <u>r01-400</u> <i>DLL</i> s allowed to change its gure 145-39. The verned by the	power allocation. 44. The transition governed by the PSEAllocatedPo (PSEAllocatedPo transition from P governed by the (PSEAllocatedPo cases, the transi PSE and PD are SuggestedRemedy Change the state allowed to reduc	When the PS " is too broad n from PSE_ conditions: I werValue_a SE_POWEF conditions: I owerValue=I tion can only in sync. ement in line e its power a prrectly discu	alt(X)=MirroredPSEAlloc R_REVIEW to MIRROR	ons shown in Fig /IRROR_UPDA alt(X) < atedPowerValu _UPDATE in Fig alt(P) < PSEAll owerValueEcho reducing the al	gures 145-43 and 145- TE in Figure 145-43 is eEcho_alt(X)). The gure 145-44 is ocatedPowerValue) OR). Therefore, in both llocation OR when the the PD, the PSE is atement, as the
PD are in sync. SuggestedRemedy Change the statement in allowed to reduce its pow	when the PSE is reducing t line 20 to "When the PSE is ver allocation.". Alternatively liscussed in the paragraph s	s not in sync wit	th the PD, the PSE is atement, as the	Cl 145 SC 145 Skinner, John Comment Type E	5.5.7	P 248 omment Status A ay update the PSEAlloc	L 3	# <u>r01-402</u> DL
Response ACCEPT IN PRINCIPLE	Response Status C	starting on line 2		procedure in 145 apparent limitation	5.5.5.1." only ons discusse		Single Signature 6.2 (or the state	e devices. There are no e diagram Figure 145-
Remove quoted sentenc	e.			SuggestedRemedy Modify the stater (dual signature)	ment to add "the PSE	a reference to the PSE may update the PSEAlle e signature) or 145.5.6.	state change pro	ocedure across a link lue and follow the
				Response ACCEPT IN PRI		sponse Status C		

Editor to note in sections 145.2.7.2 and 145.3.6.2 that AutoClass is only supported by SS PDs.

Cl 33 SC 33.4.6 Darshan, Yair	P 68	L 31	# r01-403	Cl 79 Darshan, `	SC 79.3.2.6 Yair	d.3	P 88	L 32	# r01-404
SuggestedRemedy Change to 2mV Proposed Response REJECT.	Comment Status D 1mV for 2.5GHz to 10GHz is <i>Response Status</i> Z ITHDRAWN by the comment		AES	In the the po field s of Mo 2P mi have f 1) The B" is is for classif 2) The 500K) Regar	omment is mark text for 79.3.2.6 wer type is PD. hall mean great de A and any or nimum for Type ew issues: a part "betwe s not clear and r the load during fication states. a isolation during and is required ding the positive	ked PDISO-1 id.3 PD Load Electrically is er than or eq ie connection 4 PSEs. This en any one conserved to op oower up and bower up and detection of between the e pairs, this r	I: "This field shall solated for this bi ual to 50 k ohm in on Mode B, who s field shall be so connection of Moo verdesign. The c d power on states f dual-signature F enegative connect equirement is op	t resistance betwee en measured usir et to 0 when the p de A and any one urrent isolation re and not during d PD need to be hig ctions of Mode A	her than 50K (at least and Mode B.
				Suggested Chang Electri betwe measu to 0 w To: "This isolate any or power detect	dRemedy ge from "This fie ically isolated for en any one con ured using at lea hen the power t field shall be se d for this bit fie he connection o on states and s ion and classifie	Id shall be so r this bit field nection of Mo ast VPort_PS ype is PSE." It according t d shall mean Mode A and 500K betwee cation states,	et according to Ta I shall mean great ode A and any or E-2P minimum f o Table 79-6d wh greater than or d any one connec n the negative pa when measured	able 79-6d when ter than or equal te connection on or Type 4 PSEs. Then the power typ equal to 50 k ohm tion on Mode B in tirs of Mode B du using at least VF	the power type is PD. to 50 k ohm resistance
				adopt http:// [Edito There	PT IN PRINCIF changes showr www.ieee802.or r's note added a is a typo in the	LE. in g/3/bt/public, fter commer file name. T	- nt resolution comp he file used is	07_0117_final.pd bleted: 07_1117_final.pd	

C/ 145 SC 145.2. Darshan, Yair	5.1 P116	L 49	# r01-405	C/ 145 S Darshan, Yair	C 145.2.5.3	P117	L 49	# r01-406
Comment Type T	Comment Status D		PSE SD	Comment Type	T	Comment Status A		PSE SD
machine is based or The primary alternat valid, so if primary fa is valid or not.	r if we add text in the intro to th n the following concept: ive is the OmasterO and powe ails detection, we donOt power	ring secondary is the secondary re	s pending if primary is egardless if its signature	practically signature F Tdet time p	the same. A PD, parallel o period. For a	el detection for single-signatu s a result, the following text of letection means that detection dual-signature PD, parallel of the same Tdet time period."	can be simplified on on both pairse	: "For a single- ets is done within the
•	ant to power secondary if prima her alternative as primary.)	ary fails detectior	n, we can flip by going to	SuggestedRen	nedy			
SuggestedRemedy Add the following te "When PSE support regardless if second during 4-pair operat		dary is needed w ap the roles pf Al	hen primary is not valid	within the detection c To: "Parallel de	le-signature Idet time per on both pairs etection mea	PD, parallel detection mean riod. For a dual-signature PE ets is done within the same ns that detection on each pa B.1 for details."), parallel detect Tdet time period	on means that "
Proposed Response	Response Status Z			Response		Response Status C		
REJECT.				ACCEPT I	N PRINCIPL	E.		
This comment was	WITHDRAWN by the commen	ter.		time period	etection refe	rs to detection on both pairse	01	
				This resolu	ition is identi	cal to comment #141.		

Cl 145 SC 14 Darshan, Yair	5.2.5.3	P117	L 50	# r01-407	<i>Cl</i> 145 Darshan, Yaii	SC 145.2.5.	3	P117	L 52	# r01-408
Comment Type E	Ε	Comment Status A		PSE SD	Comment Typ	be T	Comment	Status A		PSE SE
		nature PD, parallel detecti det time period.": Missing		detection both pairsets	same. As	a result text	can be simplifi	ied.	-	dual-signature are the
SuggestedRemedy					2) in add	tion, typo in	page i to ine i	i, the parallel	need to be stage	gered.
Change from " "	For a dua	I-signature PD, parallel de	etection means t	hat detection both	SuggestedRe	medy				
To: "For a dual- is done within th	signature le same T	det time period." PD, parallel detection me det time period."	eans that detection	on of both pairsets	both pairs means th To: "Stag	ets is done i at detection gered detect	in different Tde both pairsets is	t cycles. For a done in differe detection on b	dual-signature P ent Tdet cycles."	ns that detection on D, parallel detection one in different Tdet
Response		Response Status C			Response		Response S			
ACCEPT IN PRI	INCIPLE.						,			
Replace by:					ACCEPT	IN PRINCIP	LE.			
"Parallel detection time period. Staggered detect cycle."	ction refer	to detection on both pairse rs to detection on both pair	0.1		time perio	detection refo d.			01	ned in the same Tdet rmed in a different Tdet
This resolution is	s identica	l to comment #141.								
					This reso	lution is iden	tical to comme	nt #141		

C/ 145 SC 145.2.5.3 P118 L1 # r01-409	C/ 145 SC 145.2.5.3 P118 L 36 # r01-410
Darshan, Yair	Darshan, Yair
Comment Type T Comment Status A PSE SD Typo in the text "For a dual-signature PD, parallel detection means that detection both pairsets is done in different Tdet cycles.". The "parallel" need to be staggered". In addition, the word "of" is missing. PSE SD	Comment Type T Comment Status A Altpwrd The text of alt_pwrd_pri variable "TRUE: The PSE has detected, classified, and will power a PD on the Primary Alternative, is powering the Primary Alternative.", looks it has a copy past error. The part "is powering the Primary Alternative" need to be deleted. It should be similar to what we have in alt_pwrd_sec variable.
SuggestedRemedy Change from: "For a dual-signature PD, parallel detection means that detection both pairsets is done in different Tdet cycles." To: "For a dual-signature PD, staggered detection means that detection of both pairsets is done in different Tdet cycles."	SuggestedRemedy Change from: "TRUE: The PSE has detected, classified, and will power a PD on the Primary Alternative, is powering the Primary Alternative." To: "TRUE: The PSE has detected, classified, and will power a PD on the Primary Alternative."
Response Response Status C	Response Response Status C
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 Tdet cycle." This resolution is identical to comment #141.	Replace quoted sentences by: "FALSE: The circuitry that applies operating voltage to the Primary Alternative is disabled." and "TRUE: The circuitry that applies operating voltage to the Primary Alternative is enabled." And the same for Secondary. This resolution is identical to comment #142.
	C/ 145 SC 145.2.5.4 P119 L 41 # r01-411 Darshan, Yair
	Comment Type T Comment Status A Editorial Link to table 79-4 doesnOt work. Editorial Editorial Editorial
	SuggestedRemedy Fix the link to Table 79-4.
	Response Response Status C

ACCEPT.

C/ 145 SC 145.2.5.4 P 120 L 7 # r <u>01-412</u> Darshan, Yair	C/ 145 SC 145.2.5.4 P125 L 43	# r01-415
Comment Type T Comment Status A Editorial Variable name has typo. It is error_condition_sec.	Comment Type T Comment Status A pse_reset_pri: change alternative A to primary alternative. Same in line 46.	PSE SD
SuggestedRemedy Change to "error_condition_sec"	SuggestedRemedy change alternative A to primary alternative.	
Response Response Status C ACCEPT IN PRINCIPLE.	Response Response Status C ACCEPT IN PRINCIPLE.	
Change error_condition_pri on p120/line 7 to error_condition_sec	 Replace "Alternative A" with "Primary Alternative" Replace "Alternative B" with "Secondary Alternative" 	
This resolution is identical to comment #149.	This resolution is identical to comment #156.	
C/ 00 SC 0 P 123 L 53 # r01-413 Darshan, Yair	C/ 145 SC 145.2.5.4 P125 L 51	# r01-416
Comment Type E Comment Status R PSE SD The variable pse allocated power for value 3 need to be Class 0 or class 3.	Comment Type T Comment Status A	PSE SD
SuggestedRemedy Change from "3: Class 3" To: "3: Class 0, 3"	 In the text "Controls the resetting of the PSE state diagram on Alternative Secondary Alternative and not Alternative B The same in page 126 line 2. 	B." it is
Response Response Status C REJECT.	SuggestedRemedy Change from "Alternative B" to "Secondary Alternative" in both locations.	
Type 3 and 4 PSEs do not allocate class 0 power. They only allocate class 3. See comment 154.	Response Response Status C ACCEPT.	
C/ 145 SC 145.2.5.4 P125 L 43 # r01-414 Darshan, Yair	Cl 145 SC 145.2.5.4 P125 L 51	# r01-417
Comment Type T Comment Status A PSE SD	Comment Type T Comment Status A	PSE SD
 In the text "Controls the resetting of the PSE state diagram on Alternative A." it is Primary Alternative and not Alternative A. The same in line 46. 	pse_reset_sec: change alternative B to secondary alternative. Same in page SuggestedRemedy	e 126 line 2.
SuggestedRemedy	change alternative B to secondary alternative.	
Change from "Alternative A" to "Primary Alternative" in both locations.	Response Response Status C	
Response Response Status C ACCEPT IN PRINCIPLE.	ACCEPT IN PRINCIPLE. Change from "Alternative B" to "Secondary Alternative" in both locations.	
- Replace "Alternative A" with "Primary Alternative" - Replace "Alternative B" with "Secondary Alternative"	This resolution is identical to comment #416.	
This resolution is identical to comment #156.		
TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/g COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/w	general Comment ID r01-417 itten C/closed U/unsatisfied Z/withdrawn	Page 107 of 130 12/1/2017 3:17:2

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 145.2.5.5 P127 L 48 # r01-418 Darshan, Yair	C/ 145 SC 145.2.5.6 P129 L 18 # r01-420 Darshan, Yair	
Comment Type T Comment Status A PSE SD	Comment Type T Comment Status D PSE SE	
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"	The function do_class_probe doesnOt return a value for error code (we have it only if we go through the states in the procedure when available power >=4). We can fix it in two ways: Option A: To add output for the function do_class_probe such as class_error OR	
to " A timer used to limit the second through fourthE".	Option B (Preferred) : To add new variable class_error to the variable list and add it to the	
Response Response Status C	input to the IDLE state in page 135.	
ACCEPT IN PRINCIPLE.	SuggestedRemedy	
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. This resolution is identical to comment #160.	 Add the variable class_error to the variable list: class_error A variable indicating if during do_class_probe function, invalid class result was detected. Values: FALSE: No invalid class result was detected. TRUE: Invalid class result was detected. Change the input condition to IDLE in page 130 from: (pse_enable = enable) * (pse_reset + iclass_lim_det + error_condition) To: (pse_enable = enable) * (pse_reset + iclass_lim_det + error_condition+class_error) 	
C/ 145 SC 145.2.5.5 P 127 L 51 # r01-419 Darshan, Yair		
Comment Type T Comment Status A PSE SD Error in the tcev_timer_sec definition - the timer is relevant also to 3rd class event.	Proposed Response Response Status Z REJECT.	
SuggestedRemedy Change from " A timer used to limit the second and fourthE" to " A timer used to limit the second through fourthE".	This comment was WITHDRAWN by the commenter.	
Response Response Status C ACCEPT IN PRINCIPLE.		
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.		
This resolution is identical to comment #160.		

Cl 145 SC 145.2.5.6 Darshan, Yair	P 129	L 18	# r01-421	C/ 145 Darshan, Ya	SC 145.2.5.6 air	P130	L 3	# r01-422		
we go through the state Option A: To add outpu		: probe_pri such a	s class_error_pri OR	Comment Type T Comment Status D PSE 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.						
 Add the variable clas class_error_pri A variable indicating if of Values: FALSE: No invalid class TRUE: Invalid class res Change the input cor sism * (pse_reset_pri + To: 	sult was detected. idition to IDLE in page 141 f error_condition_pri + iclass_ error_condition_pri + iclass_	inction, invalid cl rom: _lim_det_pri)		"This fui The clas in CLAS timing d To: OThis f events p	page 130 line and nctions discover sevents produces S_EV1_LCE muration. This fur unctions discover produced are line _EV1_LCE may	3from: rs the PD requested Class b iced are limited to CLASS_E hay be replaced with the tcle nction returns the following v vers the PD requested Class nited to CLASS_EV1_LCE to y be replaced with the tcle2_	V1_LCE to MA 2_timer to allow variables:" by producing 3 o MARK_EV3.	RK_EV3. The tlce_timer abbreviated class class events. The class The tlce_timer in		
Proposed Response REJECT.	Response Status Z			Proposed R REJEC		Response Status Z				
This comment was WIT	HDRAWN by the commenter	er.				THDRAWN by the comment ndrawn prior to the start of co		on.		

C/ 145 SC 145.2.5.7	P135	L 33	# r01-423	C/ 145 SC 145.2	5.7	P137	L 45	# r01-424	
Darshan, Yair Comment Type T Co The condition from START_1 ((do_detect_pri_done * ((do_detect_sec_done * (pse. " contains two sets of redunce If we replace the terms of the). The redundant parenthesis locations. No if we remove them, the loc changed resulting with simpl A*(B*(C + D) + E*F*G) the	(det_temp = only_one) alternative = both) * (d ant parenthesis that ma e condition with letters w where replaced with re- gic is not changed and fied and easy to read of	+ (pse_alternati et_temp = both_ ake it hard to red ve get: A*([B * (ectangular parent also the priority condition	ve both))) + neither))) C + D)] + [E * F * G] thesis to show their of the actions doesn't	tcev_timer_done * (pse_avail_pwr > 4 The part (pse_avail identical to: (pse_avail_pwr > 4 Few issues: 1) The part: (pse_a	arked GIL_ SS_EV3 t pse_altern * ((pd_cla _pwr > 4) ' * (pd_clas /ail_pwr >	to MARK_EV3 we hav native = both) * (pd_cla ass_sig = 0) + (pse_av * ((pd_class_sig = 0) - s_sig = 0)+(pse_avail_ 4)*(pse_avail_pwr > 5	ass_sig 4) * vail_pwr > 5)) + (pse_avail_pwr _pwr > 4)*(pse_a) has the same r	r > 5)) is logically avail_pwr > 5)	
SuggestedRemedy Change from "!tdet_timer_do ((do_detect_pri_done * ((do_detect_sec_done * (pse_ To: "!tdet_timer_done * (do_detect_pri_done * ((det_temp = only_one) _alternative = both) * (d (det_temp = only_one)	et_temp = both_ + (pse_alternativ	neither)))" /e both)) +	<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>					
do_detect_sec_done * (pse_ Proposed Response Re- REJECT. This comment was WITHDR The comment was withdrawn		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)							
				when pse_avil_pwr	alent. The = 5 if pd_c	ponse Status C e current logic only allo class_sig = 0. In other to MARK_EV3 if the F	words, the if the		

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.

Cl 145 SC 145.2.5.7 P 137 L 45 # [r01-425] Darshan, Yair	C/ 145 SC 145.2.5.7 P138 L 45 # r01-426 Darshan, Yair					
Comment Type T Comment Status A PSE SD	Comment Type T Comment Status A PSE SD					
This 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:	In the exit from CLASS_EVAL to POWER_DENIED we have redundant parenthesis in the condition part that marked with \$\$: ((pd_req_pwr > pse_avail_pwr) * (pse_avail_pwr < 3)) + ((pd_req_pwr = 0) * (pse_avail_pwr < 3)) + \$\$(!ted_timer_done) + (!ted_timer_pri_done) + !ted_timer_sec_done \$\$. The part : (!ted_timer_done) + (!ted_timer_pri_done) + !ted_timer_sec_done need to be !ted_timer_done + !ted_timer_pri_done + !ted_timer_sec_done					
(pse_avail_pwr > 4)* (pd_class_sig = 0)+(pse_avail_pwr > 4)*(pse_avail_pwr > 5) which mean:	SuggestedRemedy					
(X>4)*(X>5) which is X>5. SuggestedRemedy Change from: tcev_timer_done * (pse_alternative = both) * (pd_class_sig != 4) *	Change from "((pd_req_pwr > pse_avail_pwr) * (pse_avail_pwr < 3)) + ((pd_req_pwr = 0) * (pse_avail_pwr < 3)) + (!ted_timer_done) + (!ted_timer_pri_done) + !ted_timer_sec_done." To: ((pd_req_pwr > pse_avail_pwr) * (pse_avail_pwr < 3)) + ((pd_req_pwr = 0) * (pse_avail_pwr < 3)) + !ted_timer_done + !ted_timer_pri_done + !ted_timer_sec_done Response Response Status C					
(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))	ACCEPT.					
Response Response Status C ACCEPT IN PRINCIPLE.	C/ 145 SC 145.2.5.7 P139 L 33 # r01-427 Darshan, Yair					
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) * (pd_class_sig = 0)) + (pse_avail_pwr > 5))	Comment Type T Comment Status D PSE S This comment is marked AVI_1. In the exit from POWER_ON to SEMI_PWRON_SEC, the usage of alt_pwrd_sec may not be accurate since this signal is set prior to inrush while pwr_app_sec also address passing inrush successfully. So it is recommended to replace the signal alt_pwrd_sec with pwr_app_sec because this signal indicates that the alternative is delivering power after passing the inrush check.					
Also change CLASS_EV3->MARK_EV_LAST to be more obvious: tcev_timer_done * ((pse_alternative != both) + (pd_class_sig = 4) + (((pse_avail_pwr = 5) * (pd_class_sig != 0)) + (pse_avail_pwr < 5)))	SuggestedRemedy Replace the signal alt_pwrd_sec with pwr_app_sec Proposed Response Response Status Z REJECT.					
	This comment was WITHDRAWN by the commenter.					

Cl 145 SC Darshan, Yair	145.2.5.7	P139	L 40	# r01-428	C/ 145 SC 1 Darshan, Yair	45.2.5.7	P140	L 16	# r01-431	
Comment Type in the exit from	m POWER_ON to			PSE SD wrd_sec may not be	Comment Type	_	nment Status A EC have unaligned red	ctangles.	Edtiorial	
is better to ch	0 0	this signal is set pric		with comment AVI_1, it pwr_app_sec also	SuggestedRemedy To aligned bot					
SuggestedRemed Replace the s	-	c with pwr_app_sec.			Response ACCEPT IN P	,	oonse Status C			
Proposed Respor REJECT.	nse Respo	nse Status Z			Redraw state a	and correct varia	able name.			
This commer	nt was WITHDRAW	/N by the commenter	er.		This resolution	is identical to c	omment #175.			
Cl 145 SC Darshan, Yair	145.2.5.7	P140	L 5	# r01-429	C/ 145 SC 1 Darshan, Yair	45.2.5.7	P141	L 8	# r01-432	
Comment Type		nent Status A have unaligned rec	tangles.	Edtiorial	Comment Type T Comment Status A Pres: Yseboodt 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.					
SuggestedRemed To aligned bo	<i>dy</i> oth rectangular.						nnected, ENTRY_PRI g_pri to 'invalid' contin			
Response ACCEPT IN F	,	nse Status C			diagram. Same happen To resolve it, w	in the secondar ve need to set th	y. ne sig_pri and sig_sec	to FALSE in the to	op state machine at	
Redraw state	and correct variab	le name.				will also reset to pening currently	he signals for the sing	lie signature state r	nachine, something	
This resolutio	on is identical to cor	mment #175.			SuggestedRemedy					
Cl 145 SC Darshan, Yair	145.2.5.7	P140	L 5	# r01-430	Add the followi sig_pri <==FA sig_sec <== FA	LŠE	s to the IDLE state in p	bage 135 line 7.:		
		ment Status A exit from SEMI_POV	VER_PRI to PO	<i>Editorial</i> VER_DENIDE is	Response ACCEPT IN P		oonse Status C			
truncated. SuggestedRemed					Add in state "II "stop tcc2det_1 "stop tdet2det_		ng statements:			
Response ACCEPT IN F		nse Status C			"sig_sec = inva					
	and correct variab	le name.			This resolution	is identical to c	omment #170.			
This resolutio	on is identical to cor	mment #175.								
				T/technical E/editorial G/g ISE STATUS: O/open W/wi		atisfied Z/withd		ent ID r01-432	Page 112 of 130	

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,		45.2.5.7	P141	L 12	# r01-433	<i>Cl</i> 145 Darshan, Y		45.2.5.7	P 142		L 6	# r01-434	
Comment This of In the we wi even STAF	Comment Type T Comment Status A Pres: Yseboodt3 This comment is marked AVI_22. In the ENTRY_PRI state, the variable "det_start_pri <== TRUE" is in the wrong place since we will be always in ENRY_PRI when !sism=TRUE which will set det_start_pri<==TURE even if we didn't do_detect_pri. We need to move it to the to state						3 Comment Type T Comment Status A Pres: Data In D3.1 we add the CLASSIFICATION_PRI and DO_CLASS_PROBE_PRI states for achieving some objectives, and after simulating some parts and analyzing the changes did, we found some errors in state machine and variable definitions that need to be corrected. Same applies for secondary parts. SuggestedRemedy Adopt darshan_03_117.pdf						
TRUE	E" is set a	fter do_d		let_start_sec <==	Response			Response Status C					
1. Mo 47	SuggestedRemedy 1. Move "det_start_pri <== TRUE" to state START_CXN_CHK_DETECT in page 135 line 47 2. Move "det_start_sec <== TRUE" to state START_CXN_CHK_DETECT in page 135 line							RINCIPLE ww.ieee80	2.org/3/bt/public/nov1	7/darshan_	_03_1117_f	ïnal.pdf	
47 Response	9	RINCIPLE	Response Status C		reer in page 135 line	[Editor's note added after comment resolution completed: The variables introduced in darshan_03 were added and changes introduced by comment r01-151 were incorporated into them.]							
		-	 www.ieee802.org/3/bt/public/	nov17/ysebood	t_03_0117_final.pdf	[Editor's note added after comment resolution completed:							
This I	resolution	is identic	al to comment #177.						e name. The file used 3/bt/public/nov17/darsh		17_final.pd	lf]	
-			er comment resolution compl	eted:									
			e name. The file used is 3/bt/public/nov17/yseboodt_()3_1117_final.p	df]								

C/ 145 SC 145.2.5.7 Darshan, Yair	P 144	L 10	# r01-435	Cl 145 Darshan, Y	SC 145.2.5.7 ⁄air	7 P1	45 L 7	# r01-436		
Comment Type T Corr The exits from CLASS_EVAL doesn't contain the logics for p SuggestedRemedy 1. Change the exit from CLAS !ted_timer_pri_done + !ted_tim (!pd_4pair_cand * alt_pwrd_set	power demotion. SS_EVAL_PRI to POV mer_done + (pd_req_l	VER_DENIED_P	RI from:	In CC_ to pow (Detail nothing classifi	omment marked _DET_SEQ=3 ar er up (pri signati s: If sig_pri=valid g in IDLE_PRI th ication and powe	nd CC_DET_SEQ=2 t ure was valid) but prir d and primary fails cla nat resets sig_pri to in	the state machine ca nary fails in classific assification, it goes t valid. Now seconda s to not allow poweri	o IDLE_PRI. There is ry has valid detection and ing the secondary if primary		
To: !ted_timer_pri_done + !ted_tim (pse_avail_pwr_pri < 3) + ((pd_req_pwr_pri = 0) * (pse_i 2. Change the exit from CLAS ted_timer_pri_done * ted_time (pd_4pair_cand + !alt_pwrd_s To: ted_timer_pri_done * ted_time (pd_req_pwr_pri_0) * (pd_req_	avail_pwr_pri < 3)) + (SS_EVAL_PRI to PO er_done * (pd_req_pw sec) er_done * ((pd_4pair _pwr_pri ?? Pse_avai	(!pd_4pair_cand WER_UP_PRI fr /r_pri ?? Pse_ava _cand + !alt_pwr	* alt_pwrd_sec) om: ail_pwr_pri) * d_sec) +	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 new in darshan_06_1117.pdf. SuggestedRemedy 1. Add sig_pri<==invalid in the IDLE_PRI. 2. Add sig_sec<==invalid in the IDLE_SEC. Response Response Status C ACCEPT.						
Response Resp ACCEPT IN PRINCIPLE.	ponse Status C			C/ 145	SC 145.2.5.7	7 P1	45 <i>L</i> 15	# r01-437		
Adopt http://www.ieee802.org/	/3/bt/public/nov17/dar	shan_03_117_fir	nal.pdf	Darshan, Yair Comment Type E Comment Status A Editorial Missing parenthesis in CC_DET_SEQ=0 + CC_DET_SEQ=1						
This resolution is identical to c	comment #434.									
[Editor's note added after comment resolution completed: There is a typo in the file name. The file used is http://www.ieee802.org/3/bt/public/nov17/darshan_03_1117_final.pdf]					IRemedy le to (CC_DET_\$ PT.	SEQ=0) + (CC_DET_ Response Status				
				C/ 145 Darshan, Y	SC 145.2.5.7 ⁄air	7 P1	45 L 22	# [r01-438		
				<i>Comment</i> Missin	21	Comment Status CC_DET_SEQ=0 + (Editorial		
				Suggested Chang	•	SEQ=0) + (CC_DET_	SEQ=1)			
				Response ACCE	PT.	Response Status	С			

C/ 145 SC 145.2.5.7 P145 L 30 Darshan, Yair	# r01-439	C/ 145 SC 145.2.5.7 P148 L 10 # [r01-440] Darshan, Yair
Comment Type T Comment Status A 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 class going to wait state. This problem was not exist in D3.0 and no we have i changes made by http://www.ieee802.org/3/bt/public/sep17/stewart_02, page 5 when we remove (CC_DET_SEQ=3) and (CC_DET_SEQ NE 3) IDLE_SEC. Now the assignment det_once_sec=TRUE is not exists if we ENTRY_SEC to DETECT_EVAL_SEC as a result we have now the abor simulation results if needed in darshan_06_1117.pdf. SuggestedRemedy Add to DETECT_EVAL_SEC the condition det_one_sec=TRUE. Response Response Status C ACCEPT IN PRINCIPLE. Add to DETECT_EVAL_SEC the condition det_once_sec=TRUE. IEditor's note added after comment resolution completed:	t due to the _0917_final.pdf on from the exits of e came from	Comment TypeTComment StatusAPres: DarshanThe exits from CLASS_EVAL_SEC to POWER_DENIGED_SEC and POWER_UP_SEC doesn't contain the logics for power demotion.SuggestedRemedy1. Change the exit from CLASS_EVAL_SEC to POWER_DENIGED_SEC from: !ted_timer_sec_done + !ted_timer_done + (pd_req_pwr_sec > pse_avail_pwr_sec) + (!pd_4pair_cand * alt_pwrd_pri) To: !ted_timer_sec_done + !ted_timer_done + (pd_req_pwr_sec > pse_avail_pwr_sec) * (pse_avail_pwr_sec < 3) + ((pd_req_pwr_sec=0) * (pse_avail_pwr_sec < 3)) + (!pd_4pair_cand * alt_pwrd_pri) 2. Change the exit from CLASS_EVAL_SEC to POWER_UP_SEC from: ted_timer_sec_done * ted_timer_done * (pd_req_pwr_sec?? pse_avail_pwr_sec) * (pd_4pair_cand + !alt_pwrd_pri) To: ted_timer_sec_done * ted_timer_done * ((pd_4pair_cand + !alt_pwrd_pri) + (pd_req_pwr_sec 0) * (pd_req_pwr_sec?? pse_avail_pwr_sec > 2))
This needs to be an assignment, so "det_once_sec <= TRUE" has been	added]	Response Response Status C ACCEPT IN PRINCIPLE. Adopt http://www.ieee802.org/3/bt/public/nov17/darshan_03_117_final.pdf This resolution is identical to comment #434. [Editor's note added after comment resolution completed: There is a typo in the file name. The file used is http://www.ieee802.org/3/bt/public/nov17/darshan_03_1117_final.pdf]

C/ 145 SC 145.2.8 P162 L15 C/ 145 P164 L43 # r01-443 # r01-441 SC 145.2.8.5 Darshan, Yair Darshan, Yair Comment Type т Comment Status A Pres: Darshan5 Comment Type T Comment Status D PSF Power ILIM 2P numbers need to in sync to Icon-2P unb and Ipeak-2P unb after latest changes Modified comment from i-204 in D3.0. in Icon-2P unb values. In the text "PSEs shall be able to source ICon-2P, the current the PSE supports on each powered pairset, as defined in Equation (145-8).". SuggestedRemedy The text savs that Icon-2P is the current that the PSE must support on each pair set per Eq. Adopt darshan 05 1117.pdf 145-8. This current cannot be calculated per Equation 145-8 since lport-2P other has no numerical definition or can be calculated per the data in the spec as we do for all our Response Response Status C equations in the spec. One may ask why we need to calculate it? The answer is because it ACCEPT IN PRINCIPLE. is a spec and we cannot leave spec parameter/equation that has no solution. Otherwise why to spec it if it not needed? adopt changes shown in SugaestedRemedv http://www.ieee802.org/3/bt/public/nov17/darshan_05_1117_final.pdf In the definition of Iport-2P other in the where list of Equation 145-8 append the following C/ 145 SC 145.2.8 P163 L 28 # r01-442 text to the existing definition: "Iport-2P_other can be found by the measurement of the current difference between two Darshan, Yair pairs of the same polarity when PSE is connected to the test verification model and its Comment Type Comment Status A Editorial т operating conditions as described in 145.2.8.5.1" The note (a) belongs to Icon-2P unb as it was in D3.0 Proposed Response Response Status Z SuggestedRemedy REJECT. Change Note a from "aThe IUnbalance-2P value is higher than the value for Class 5 as This comment was WITHDRAWN by the commenter. unbalance for Class 4 is not restricted." To: "aThe Icon-2P unb value is higher than the value for Class 5 as unbalance for Class 4 is not restricted." Response Response Status C

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

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

<i>Cl</i> 145 SC 145.2.8.5.1 <i>P</i> 166 <i>L</i> 29 # r01-444 Darshan, Yair	C/ 145 SC 145.2.8.5.1 P167 L 36 # r01-445 Darshan, Yair
Comment Type T Comment Status A Pres: Darshan5	Comment Type T Comment Status A Editoria
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.	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	SuggestedRemedy
In Table 145-17 make the following changes: In the 2nd row, in the assigned class column change from "5" to "5 to 8". In the 2nd row, in the Value column change from "0.56" to "lunbalance-2P=lcon-2P_unb+0.002". Delete rows 4-6. Response Response Status C ACCEPT IN PRINCIPLE.	Change from "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." To: "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 to generate Pclass_PD at the input of Pload."
adopt changes shown in	Response Response Status C
http://www.ieee802.org/3/bt/public/nov17/darshan_05_1117_final.pdf	ACCEPT IN PRINCIPLE.
This resolution is identical to comment #441.	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, as shown in Figure 145-22, so the power sink can be set such that the power consumption inside the Pload box equals Pclass_PD."
This resolution is identical to comment #441.	"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, so the power sink can be set such that the power consumption
This resolution is identical to comment #441.	"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, so the power sink can be set such that the power consumption inside the Pload box equals Pclass_PD." CI 145 SC 145.2.8.5.1 P167 L49 # r01-446
This resolution is identical to comment #441.	"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, so the power sink can be set such that the power consumption inside the Pload box equals Pclass_PD." <i>Cl</i> 145 <i>SC</i> 145.2.8.5.1 <i>P</i> 167 <i>L</i> 49 # [<u>r01-446</u>] Darshan, Yair
This resolution is identical to comment #441.	 "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, so the power sink can be set such that the power consumption inside the Pload box equals Pclass_PD." C/ 145 SC 145.2.8.5.1 P167 L 49 # r01-446 Darshan, Yair Comment Type E Comment Status A Editoria The wording is not clear in the text "Rload2_max is, given Rload2_min, the higher resistance value representing the PD unbalance". Rload2_max represents the PD
This resolution is identical to comment #441.	 "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, so the power sink can be set such that the power consumption inside the Pload box equals Pclass_PD." Cl 145 SC 145.2.8.5.1 P167 L 49 # r01-446 Darshan, Yair Comment Type E Comment Status A Editoria The wording is not clear in the text "Rload2_max is, given Rload2_min, the higher resistance value representing the PD unbalance". Rload2_max represents the PD contribution to unbalance and not unbalance.
This resolution is identical to comment #441.	 "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, so the power sink can be set such that the power consumption inside the Pload box equals Pclass_PD." Cl 145 SC 145.2.8.5.1 P167 L 49 # r01-446 Darshan, Yair Comment Type E Comment Status A Editoria The wording is not clear in the text "Rload2_max is, given Rload2_min, the higher resistance value representing the PD unbalance". Rload2_max represents the PD contribution to unbalance and not unbalance. SuggestedRemedy Change from "Rload2_max is, given Rload2_min, the higher resistance value representing the PD unbalance" To: "Rload2_max is, given Rload2_min, the higher resistance value representing the PD unbalance

C/ 145 SC 145.2.8.5.1 P167 L 50 # r01-447 Darshan, Yair	Cl 145 SC 145.3.3.4 P 178 L 39 # r01-449 Darshan, Yair					
Comment Type E Comment Status A Editorial The wording is not clear in the text "Rload2_min is the lowest resistance representing the PD unbalance". Rload2_min represents the PD contribution to unbalance and not unbalance. SuggestedRemedy Change from: "Rload2_min is the lowest resistance representing the PD unbalance". To: "Rload2_min is the lowest resistance representing the PD unbalance". Response Response Status C ACCEPT IN PRINCIPLE. Change from: "Rload2_min is the lower resistance representing the PD unbalance". To: "Rload2_min is the lower resistance representing the PD unbalance". C	Comment Type T Comment Status A Pres: Ysebod The variable nopower is not clearly defined in the following text: "A variable that indicates the PD has been in NOPOWER, which indicates VPD was below VOff_PD while being powered, since the last time VPD was below VReset for at least TReset. Values: FALSE: The PD has not been in NOPOWER. TRUE: The PD has been in NOPOWER. TRUE: The PD has been in NOPOWER. Suggested to be Vreset_PD. Suggested Remedy Suggested Remedy					
Cl 145 SC 145.2.8.12 P 173 L 15 # r01-448 Darshan, Yair Comment Type T Comment Status D Pres: Darshan4 Equation 145-22 accuracy need to be addressed. See proposed changes in darshan_04_1117.pdf. SuggestedRemedy Adopt darshan_04_1117.pdf Proposed Response Response Status Z	 Change to: Change to: "nopower "A variable that indicates the PD has been in NOPOWER, which indicates VPD was below VOff_PD while being in powering state, since the last time VPD was below Vreset for at least Treset. Values: FALSE: The PD has not been in NOPOWER. TRUE: The PD has been in NOPOWER." The nopower_mode(X) variable is missing from the variable list. This is covered by the comment marked nopower_mode(X). If this comment will be accepted, to make sure that similar language are used in both variables. 					
REJECT. This comment was WITHDRAWN by the commenter. This comment was withdrawn before the beginning of comment resolution.	Response Response Status C ACCEPT IN PRINCIPLE. adopt changes shown in http://www.ieee802.org/3/bt/public/nov17/yseboodt_08_1117_final.pdf This resolution is identical to comment #227.					

Cl 145 Darshan, Yai	SC 145.3.3.4 r	P 178	L 39	# r01-450	C/ 145 Darshan, `	SC 145.3.3.7 Yair	P184	L 30	# r01-452
Comment Ty	pe T Co	omment Status A		Nopower	Comment	Туре Т	Comment Status A		Pres: Yseboodt
The varia SuggestedRe Add the f nopower A variabl VPD was VReset_ Values: FALSE: Response ACCEPT adopt ch: http://ww	emedy following variable to _mode(X) e that indicates the l s below VOff_PD wh PD for at least TRes The PD has not bee The PD has been in <i>Res</i> IN PRINCIPLE. anges shown in w.ieee802.org/3/bt/p	(X) is missing from the 145.3.3.4 PD has been in NOPOV ile being in powering st set. n in NOPOWER. NOPOWER. sponse Status C public/nov17/yseboodt_	VER over mode ate, since the la	st time VPD was below	NOPC 1) Vio 2) Pos 3) Allo sensit we ne If PD (pse_) destro Detail When state of nopow back t overlo that w This s	WER state and g lation of tpowerde sible overload co wing incompliant ive to 2nd inrush of ed to allow it as o didnOt lost its dat. bower_level <== & yed. s of issue 1: actual Tinrush_P due to VPD <voff_ ver variable=TRUI o POWERED thr ading the PSE wf e are going throug cenario happens</voff_ 	or single signature (and dua loing back to INRUSH and b lay_timer when going from H ndition due to the assignme behavior of PDs that doesn' counted as additional class of ptional behavior and not ma a when going to Vpd < Voff b) in NOPOWER spec so the D<25msec and transitioning PD, sets nopower variable is will lead to bypassing tpow pugh INRUSH and POWER hich is still in INRUSH state. bh INRUSH state twice in the whenever Vpd is lowered be sing a transition to NOPOW	pack to POWER_D POWER_DELAY to nt of (pse_power_ Ot lock their class event (I understan indatory behavior f _pd, it doesnOt ne e correct assigned of from POWER_D to TRUE. verdelay_timer (80 _DELAY states wh (The 25msec nun e above scenario) elow Voff_pd in PO	DELAY. to NOPOWER. level <== 8). event counter and id the need for this but for PDs. For example: eed to set d class will not be DELAY to NOPOWER Disco when returning hich will lead to PD nber is due to the fact
	blution is identical to				(regardless of the time VPD was below Voff_pd). In the case where Tinrush_PD = 0 to 25ms, then the PD state-machine will do the				
Darshan, Yai Comment Tyj In the no should be SuggestedRe Change f To: "TRL Response ACCEPT adopt cha http://ww	pe T Co power variable text: e "TRUE: The PD h emedy from "FALSE: The P JE: The PD has been Res IN PRINCIPLE. anges shown in	sponse Status C	." /ER."		POWI This is INRUS Same Detail In the pse_a than & As lor past, i transit PD re inrush Regar that w pse_a not ha In ado use fo mand Bottor behav	ER_DELAY to PC a violation of Tdo SH. issue in dual-sigr s of issue 2: NOPOWER state vailable_power=8 d. g as VPD>VRese t was claimed tha ioning from NOPC quired by spec to . Any way, we hav ding PDs that doo e want to support vailable_power=8 ve to do it otherw ition, we need to r abnormal use co ory requirements n line: We have tr ior is not defined	esn't lock class event countin this case in the field as well optional as function if we lo ise they may go to overload add text that explains that th ases and not as the typical b of the spec. ied to allow supporting non- by making the state machine	er_level <==8" will tting to NOPOWE a. In the argument e additional class en is argument seem al counts after first ng, they are not cc so we need to ma conditions while th is NOPOWER sta behaviour otherwis compliant PDs or e to support those	ad PSE by PD during I cause PD to have R state is was lower ts why we add it in the event when ns not correct since t time going through ompliant. I understand ake the use of i.e. compliant PDs will hey behaves correctly. te was meant to be se we by pass the PDs that their PDs but on the way
TYPE: TR/te	chnical required ER	/editorial required GR/	general required	T/technical E/editorial G/g		eate problems that	t compliant PDs doesnOt ha Comm	ave and we force the neuronal section we have a	hem to behave in Page 119 of 1

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 r01-452

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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 P186 L 11 # [r01-454] Darshan, Yair						
SuggestedRemedy	Comment Type T Comment Status A 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. 	The variable pd_current_limit_mode(X) should not be used. See other comments where it was deleted from the state machine.						
2. Add the new variable go2nopower: go2nopower	SuggestedRemedy						
Implementation specific variable that indicates if PD will go to NOPOWER in case VPD <	Remove the variable pd_current_limit_mode(X) from the variable list in 145.3.3.9						
VOff_PD during POWER_DELAY or POWERED.	Response Response Status C						
Values FALSE PD will not use NOPOWER in case VPD < VOff_PD during POWER_DELAY or POWERED	ACCEPT IN PRINCIPLE.						
TRUE PD will use NOPOWER in case VPD < VOff_PD during POWER_DELAY or POWERED	Remove pd_current_limit_mode(X) in 145.3.3.9 and remove it's use in the dual-sig state diagram.						
 Repeat only steps 1 for dual-signature PD in page 190 for the above states. [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)] 	This resolution is identical to comment #230.						
Append the following text to the definition of nopower variable:	Cl 145 SC 145.3.3.12 P190 L8 # r01-455						
"If pse_power_level data was not lost or changed in the event of transitioning to	Darshan, Yair						
POWER_DELAY through NOPOWER, the assignment pse_power_level<==8 may not be implemented in NOPOWERO	Comment Type T Comment Status A PD SD						
Response Response Status C	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)						
ACCEPT IN PRINCIPLE.	SuggestedRemedy						
adopt changes shown in	Change from "tinrush_timer_done_mode(X)" to "tinrushpd_timer_done_mode(X)"						
http://www.ieee802.org/3/bt/public/nov17/yseboodt_08_1117_final.pdf	Response Response Status C						
This resolution is identical to comment #227.	ACCEPT.						
Cl 145 SC 145.3.3.7 P184 L 38 # [r01-453] Darshan, Yair	Cl 145 SC 145.3.3.12 P 190 L 10 # r01-456 Darshan, Yair						
Comment Type T Comment Status A Editorial Missing parenthesis in POWERED state in pd_req_class > 3	Comment Type T Comment Status A PD SD In the state INRUSH, pd_current_limit_mode(X) is not required. PD SD						
SuggestedRemedy Replace "IF (pd_req_class > 3 + pd_dll_capable) THEN"	SuggestedRemedy Remove "pd_current_limit_mode(X) < FALSE" from INRUSH state.						
	Response Response Status C						
To: "IF ((pd_req_class > 3) + pd_dll_capable) THEN"	Response Response Status C						
	ACCEPT IN PRINCIPLE.						
To: "IF ((pd_req_class > 3) + pd_dll_capable) THEN" Response Response C							

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

Cl 145 Darshan, `	SC 145.3.3.12 Yair	P 190	L13	# r01-457	C/ 145 Darshan, Y	SC 145.3.6.2 ′air		P196	L 46	# r01-460
Comment		Comment Status A		PD SD	Comment		Comment Stat	us D		PD Class
		ELAY, pd_current_limit_mod	le(X) is not requ	ired.	In the t	ext "After power	up, a PD that imp	lements Au	utoclass shall draw	its highest required
Suggested Remo		nit_mode(X) < FALSE" from	POWER_DELA	Y state.	to the i have th	ne following issu	PClass_PD in 14			bounded by" we
Response ACCE	PT IN PRINCIPLE	Response Status C			autocla accord	ass power value ing to the follow	is the assigned clanged end clanged and the second se	ass. This m	the text says that the generate an over	erload condition
Remo diagra		it_mode(X) in 145.3.3.9 and	remove it's use	in the dual-sig state	assign 2) Now	ed class will be the PD request	5 per table 145-12 s Autoclass throug	gh LLDP ar	nd consumes 39W	d received 34W. The (it can consume
This re	esolution is identic	al to comment #230.			3) PSE	will enter to over	um of the assigned erload condition/ov		nd may shut the po	ort off.
Cl 145 Darshan, `	SC 145.3.3.12 Yair	P190	L 20	# r01-458	a) The it to the	e PSE allocated	power which is in	the above e	example 34W and	
Comment In the	51	Comment Status A pd_current_limit_mode(X)	s not required.	PD SD	and lim	,		•	class when layer 1 a e allocated power w	
Suggested	dRemedy				Suggested	<i>Remedy</i> e from:				
Remo diagra	PT IN PRINCIPLE	Response Status C it_mode(X) in 145.3.3.9 and al to comment #230.	remove it's use	in the dual-sig state	PAutoo period above point u higher defineo To:	class_PD, subje bounded by TAI VPort_PD-2P m ntil VPD falls be power level, up d in 145.5."	ct to the requirement JTO_PD1 and TA in. The PD shall n low VReset_PD m to the PD requeste	ents on PCI U-TO_PD2 ot draw mo hax, unless ed Class, th	the PD successful prough Data Link Li	.2, throughout the then VPD rises utoclass_PD at any ly negotiates a ayer classification as
C/ 145	SC 145.3.3.12	P190	L 29	# r01-459					hall draw its highest lass PD in 145.3.8	
Darshan, `		. 100	- 20		period		JTO_PD1 and TA		, measured from w	
Comment In the	51	Comment Status A PDATE, pd_power_update_u	mode(X) is not i	PD SD required.	When highes	using Autoclass t required power	through LLDP, a I , PAutoclass_PD,	up to PSE	blements Autoclass AllocatedPowerVal	lue, throughout the
Suggested Remo		late_mode(X) < FALSE" fro	m POWER_UPI	DATE state.	Mirrore The PI	edPDAutoclassR D shall not draw	equest is TRUE.	PAutoclass	_PD at any point u	intil VPD falls below er level, up to the PD
Response ACCE		Response Status C				ted Class, throu	gh Data Link Laye	r classifica	tion as defined in 1	
	-	_mode(X) <= FALSE from F	OWER_UPDA	E to POWERED	REJEC	•	Response Stati	13 L		
This re	esolution is identic	al to comment #355.			This co	omment was WI	THDRAWN by the	commente	er.	
				T/technical E/editorial G/g ISE STATUS: O/open W/wr		1. //unsatisfied	7/withdrawn	Comm	ent ID r01-460	Page 121 of 130 12/1/2017 3:17:2

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

12/1/2017 3:17:24 PM

Cl 145 SC 145.3.8. Darshan, Yair	9	P 205	L 24	# r01-461	<i>Cl</i> 145 Darshan, Y		45.4.1.1.1	P 210	L 7	# r01-463
Comment Type E Missing link to Annex SuggestedRemedy Append the text "See	Annex 145 for de	tails" after lin	e 24	PD Power	PSE m (We ha Switch	ure pro leasure: ave alre	per operations the current ady a requirent positive side	Comment Status A on of connection check a t on the same side it swi ement that PSE will swite is possible as an option letection on each pairse	tches the current ch the current on but not instead	the negative side. of the negative side).
Response REJECT. This text is unneeded to accept this comme		-	draft. Consens	us could not be gained	The PD must show valid detection on each pairset set per the dual-signature de when connected to the PSE above. As a result, we don't need to require dual-sigs to not tie negatives together how do, it surely make the standard clearer. In addition 79.3.2.6d.3 needs updated and will be addressed in separate common as PDISO-1.					ogether however if we
Cl 145 SC 145.3.8 Darshan, Yair Comment Type T Per the latest change Pl for unbalance tests SuggestedRemedy Adopt darshan_01_1* Response ACCEPT IN PRINCIF adopt changes in http	, Figure 145-31 a 17.pdf <i>Response Sta</i> LE.	e Equipment nd NOTE 1 atus C	in line 33 need s	·	"Án En both cc To: "Ar the cur 2) On p "An en conduc To: "An en conduc 3) On p	bage 21 onducto on Environ rent thro bage 21 vironme ctor. It is vironme ctor and bage 20	0 line 7, cha ent A PSE s rs." ough it. It is 0 line 18, cl ent B PSE th s allowed to ent B PSE th shall meas 9 clause 14	hall switch the more neg SE shall switch the more allowed to switch both o nange from: nat supports 4-pair powe switch both conductors. nat supports 4-pair powe	negative conduc onductors." r shall switch the " r shall switch the t. It is allowed to he following text:	tor and shall measure more negative more negative switch both conductors." ODual-signature PDs
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	9,0,0,0,000			Response ACCEF adopt o http://w This re [Editor There i	PT IN P changes www.iee solutior s note a	RINCIPLE. s shown in e802.org/3/l n is identical added after o in the file r	to comment resolution comment resolution comment status C to comment #404.	_07_0117_final.p	df

				•			
C/ 145 SC 145.4.4 Darshan, Yair	P 213	L 12	# r01-464	<i>Cl</i> 145 SC 145.4. Darshan, Yair	P 214	L 33	# r01-466
Comment Type T	Comment Status A		AES	Comment Type T	Comment Status A		AES
	G we need to update the maxir ce less than 1 ohm from 1 MH		ange in the text		IG we need to update the maxim nce less than 1 ohm from 1 MH		range in the text
SuggestedRemedy				SuggestedRemedy			
	citor impedance less than 1 of dance less than 1 M				acitor impedance less than 1 ol edance less than 1ohmrom 1 M		
Response	Response Status C			Response	Response Status C		
ACCEPT IN PRINCIP	PLE.			ACCEPT IN PRINCI	PLE.		
	citor impedance less than 1 of dance less than 1ohm from 1			Change to: "**Capac	itor impedance less than 10hm	। from 1 MHz to १	500 MHz."
			•	C/ 145 SC 145.4.6	<i>P</i> 215	L 39	# r01-467
C/ 145 SC 145.4.4	P 213	L 21	# r01-465	Darshan, Yair			
Darshan, Yair				Comment Type T	Comment Status D		AES
Comment Type T	Comment Status A		AES	<i>,</i> ,	f 1mV for 2.5GHz to 10GHz is t	too small	ALO
	E, the PI that supplies power is			·			
35. The PSE load, R,	in Figure 145-35 is adjusted s	o that the PSE o	utput current, lout, is	SuggestedRemedy			
	nA, while measuring Ecm_out Need to adjust it to Icon or Icor		good for 802.3af when	Change to 2mV			
SuggestedRemedy				Proposed Response	Response Status Z		
	a DCC the DI that evention a	over ie terminete	d an illustrated in	REJECT.			
Figure 145-35. The Pa current, lout, is 10 mA To: "1) For a PSE, th The PSE load, R, in F	• a PSE, the PI that supplies por SE load, R, in Figure 145-35 is A and then 350 mA, while mea e PI that supplies power is terr Figure 145-35 is adjusted so th single-signature PD or Icon-2F _out on the PI."	adjusted so that suring Ecm_out of minated as illustr at the PSE outpu	t the PSE output on the PI." ated in Figure 145-35. it current, lout, is 10	This comment was V	VITHDRAWN by the commente	er.	
Response	Response Status C						
ACCEPT IN PRINCIP	PLE.						
Figure 145-35. The Pactific Current, lout, is 10 mA To: "1) For a PSE, th The PSE load, R, in F	a PSE, the PI that supplies por SE load, R, in Figure 145-35 is and then 350 mA, while mea e PI that supplies power is ten figure 145-35 is adjusted so th or 2-pair operation or 2xIcable	adjusted so that suring Ecm_out of minated as illustr at the PSE output	t the PSE output on the PI." ated in Figure 145-35. It current, lout, is 16				

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

Ecm_out on the PI."

Cl 145 SC 145.5.5.52 P226 L 28 # r01-468 Darshan, Yair	C/ 145A SC 145A.2 P 275 L 25 # [r01-470] Darshan, Yair				
Comment Type T Comment Status A DLL In the pse_power_review function definition, missing "or changes in PD requested power value" to the text "This function evaluates the power allocation or budget of the PSE based on local system changes.". See for reference how pd_power_review is defined. DLL	Comment Type E Comment Status A Editorial Title is not accurate. Change from "Unbalance overview" to "Pair-to-pair unbalance overview" SuggestedRemedy				
SuggestedRemedy Change from " "This function evaluates the power allocation or budget of the PSE based on local system changes."" To: "This function evaluates the power allocation or budget of the PSE based on local system changes or changes in PD requested power value."	Change from "Unbalance overview" to "Pair-to-pair unbalance overview" Response Response Status C ACCEPT.				
Response Response Status C ACCEPT IN PRINCIPLE.	C/ 145A SC 145A.4 P277 L 44 # r01-471 Darshan, Yair				
Change to: "This function evaluates the power allocation or budget of the PSE based on local system changes or changes of the PD requested power value."	Comment Type E Comment Status A Editoria After the last changed for D3.1, The link should be figure 145A-1 and not Figure 145-22. SuggestedRemedy				
C/ 145 SC 145.5.3.3.2 P 226 L 28 # [r01-469] Darshan, Yair Comment Type T Comment Status A DLL	Change from "Figure 145-22" to "Figure 145A-1". <i>Response Response Status</i> C ACCEPT.				
pse_power_review is a function of local system changes but also PD requested power value SuggestedRemedy	C/ 145A SC 145A.4 P 277 L 50 # r01-472 Darshan, Yair				
Change from: "This function evaluates the power allocation or budget of the PSE based on local system changes. The function returns the following variables:" To: "This function evaluates the power allocation or budget of the PSE based on local system changes PD requested power value."	Comment Type E Comment Status A Editoria Missing link to Figure 145-22 in the text: "PSE current unbalance requirements need to be met with Rload_max and Rload_min applied as defined in Equation (145-14), Equation (145-15), and Table 145-18. A compliant unbalanced load, Rload_min and Rload_max, consists of the link section and PD effective resistances, including the effects (or influence) of system end-to-end unbalance." Editoria				
Response Response Status C	SuggestedRemedy				
ACCEPT IN PRINCIPLE. Change to: "This function evaluates the power allocation or budget of the PSE based on local system changes or changes of the PD requested power value."	Change to: "PSE current unbalance requirements need to be met with Rload_max and Rload_min applied as defined in Equation (145-14), Equation (145-15), and Table 145-18. A compliant unbalanced load, Rload_min and Rload_max, consists of the link section and PD effective resistances, including the effects (or influence) of system end-to-end unbalance. See Figure 145-22, Figure 145A-1 and Figure 145A-3 for details."				
This resolution is identical to comment #468.	Response Response Status C ACCEPT.				

Cl 145A SC 145A.5 Darshan, Yair	P 278	L 3	# r01-473	Cl 145B SC 145 Darshan, Yair	3.1.3	P 283	L 32	# r01-476
Comment Type T	Comment Status A		Editorial	Comment Type T	Co	omment Status D		Anne
Missing information in limited to 10mV max for SuggestedRemedy	the annex. Append text that F or the current spec numbers.	PSE pair to pair v	voltage difference was	connection check	result is du initially TR	rates a PSE implementi lal and pd_4pair_cand is UE" should be "class_4 c is TRUE"	initially TRUE.	' is incorrect.
Add the following text a	after line 3: ge difference is specified by \	/nort_PSE-2P in	table 145-16 "	SuggestedRemedy				
Response ACCEPT.	Response Status C			connection check To: "Figure 145B-	result is du 8 illustrates	B illustrates a PSE imple al and pd_4pair_cand is a PSE implementing C s_4PID_mult_events_se	s initially TRUE.' C_DET_SEQ=2	
C/ 145A SC 145A.5	P 278	L 46	# r01-474	Proposed Response	Res	sponse Status Z		
Darshan, Yair				REJECT.				
	Comment Status A the annex. Append text that F	PD pair to pair vo	Annex oltage difference was	This comment wa	s WITHDR	AWN by the commenter	:	
	or the current spec numbers.			C/ 145B SC 145	3.1.3	P 283	L 45	# r01-477
SuggestedRemedy				Darshan, Yair				
Add the following text a	after line 46: e difference e.g. Vf1-Vf3 was	limited to 60mV	to get the spec for Icon-	Comment Type T	Co	omment Status D		Anne
2P_unb under worst ca Response				simultaneous pow	er on". rem	ementing CC_DET_SEC love the text "simultaned		
ACCEPT IN PRINCIPI	,			for dual-signature	PD case.			
				SuggestedRemedy				
Add the following text a "PD pair-to-pair voltage	after line 46: e difference (e.g. Vf1-Vf3) wa b under worst case conditions	s limited to 60m	V while generating	case	imultaneou	is power on" which may	be incorrect for	dual-signature PD
values for icon-2P_uni	b under worst case conditions			Proposed Response	Res	sponse Status Z		
C/ 145B SC 145B.1	P 281	L 21	# r01-475	REJECT.				
Darshan, Yair				This comment wa	s WITHDR	AWN by the commenter		
Comment Type T	Comment Status D		Pres: Darshan2		o winibit			
For clarity, to add draw parallel/staggered dete	vings to Annex 145B.1 demon ection	strating the defi	nition of					
SuggestedRemedy								
Adopt darshan_02_11	17.pdf							
Proposed Response	Response Status Z							
REJECT.								
This comment was WI	THDRAWN by the commente	er.						

C/ 145B SC 145B.1.3 Darshan, Yair	P 284	L 2	# r01-478	C/ 145B SC 145B.1 Darshan, Yair	.4	P 285	L 5 1	# r01-480		
connection check resu "pd_4pair_cand is initia class_4PID_mult_ever SuggestedRemedy	Comment Status D 9 illustrates a PSE implement t is dual and pd_4pair_cand illy TRUE" should be "class_4 ts_sec is TRUE"	is initially FALSE 4PID_mult_ever	E." is incorrect. its_pri or	Comment Type T Figure 145B-14 to ch SuggestedRemedy Figure 145B-14 to ch Response ACCEPT IN PRINCI	hange Tice2 ar hange Tice2 ar <i>Response</i>			Annex		
To: "Figure 145B-9 illu	t is dual and pd_4pair_cand i strates a PSE implementing (d class_4PID_mult_events_s	CC_DET_SEQ=		change Tice2 and Ti		n all figures in An	nex 145B.			
Proposed Response REJECT.	Response Status Z			C/ 145C SC 145C.1 Darshan, Yair		P 287	L 28	# r01-481		
This comment was WI	THDRAWN by the commente	er.		Comment Type E Figure 145C-1. It is 2		nt Status A t 25 W.		Annex		
C/ 145B SC 145B.1.4 Darshan, Yair	P 284	L 34	# r01-479	SuggestedRemedy Change the load to 2	25.5 W.					
	Comment Status D 11 illustrates a PSE impleme t is dual." is incomplete.	nting CC_DET_	Annex SEQ=3 when the	Response ACCEPT IN PRINCI	,	e Status C				
SuggestedRemedy Change from: ""Figure connection check resu	145B-11 illustrates a PSE im t is dual." "	plementing CC_	DET_SEQ=3 when the	change to 25.5W This resolution is identical to comment #39.						
check result is dual an	ustrates a PSE implementing d class_4PID_mult_events_s		=3 when the connection	C/ 145C SC 145C.1 Darshan, Yair		P 288	L 8	# r01-482		
Proposed Response REJECT.	Response Status Z			Comment Type E Figure 145C-2. It is 2		nt Status A t 25 W.				
This comment was WITHDRAWN by the commenter.				SuggestedRemedy Change the load to 2						
				Response ACCEPT IN PRINCI		e Status C				
				change to 25.5W						

Cl 145C SC 145C.3 Darshan, Yair	P 289	L 46	# r01-483	<i>Cl</i> 145 Darshan, Y	SC 145.2.5.7 air	P148	L 10	# r01-485		
Comment Type E Typo. Remove "/m" from SuggestedRemedy			Annex	The ex	similar ot earlie	Comment Status A r comment but with update _EVAL_SEC to POWER_L ics for power demotion.		Pres: Darshan3		
Remove "/m" from the va Response ACCEPT. C/ 145 SC 145.2.5.7 Darshan, Yair	alue "0.3 ohm" Response Status C P144	L 10	# <u>r01-484</u>	!ted_tir !pd_4p To: !ted_tir	nge the exit fron ner_sec_done + air_cand ner_sec_done +	CLASS_EVAL_SEC to P !ted_timer_done + (pd_re	q_pwr_sec > pse_	_avail_pwr_sec) +		
Comment Type T Comment Status A Pres: Darshan3 This is similar of earlier comment but with updated remedy. The exits from CLASS_EVAL_PRI to POWER_DENIGED_PRI and POWER_UP_PRI doesn't contain the logics for power demotion. Pres: Darshan3					<pre>(pd_req_pwr_sec > pse_avail_pwr_sec) * (pse_avail_pwr_sec < 3) + ((pd_req_pwr_sec= 0) * (pse_avail_pwr_sec < 3)) + !pd_4pair_cand 2. Change the exit from CLASS_EVAL_SEC to POWER_UP_SEC from: ted_timer_sec_done * ted_timer_done * (pd_req_pwr_sec ?? pse_avail_pwr_sec) * red_timer_sec_done</pre>					
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: !ted_timer_pri_done + !ted_timer_done + (pd_req_pwr_pri > pse_avail_pwr_pri) * (pse_avail_pwr_pri < 3) + ((pd_req_pwr_pri = 0) * (pse_avail_pwr_pri < 3)) + (!pd_4pair_cand * alt_pwrd_sec)				pd_4pair_cand) To: ted_timer_sec_done * ted_timer_done * pd_4pair_cand * ((pd_req_pwr_sec 0) * (pd_req_pwr_sec ?? pse_avail_pwr_sec) + (pse_avail_pwr_sec > 2)) Response Response Status C ACCEPT IN PRINCIPLE. Adopt http://www.ieee802.org/3/bt/public/nov17/darshan_03_117_final.pdf						
ted_timer_pri_done * tec (pd_4pair_cand + !alt_p To: ted_timer_pri_done * tec	 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) + 					This resolution is identical to comment #434. [Editor's note added after comment resolution completed:				
(pd_req_pwr_pri_0) * (pd_req_pwr_pri <= pse_avail_pwr_pri) + (pse_avail_pwr_pri > 2)) Response Response Status C ACCEPT IN PRINCIPLE.						le name. The file used is /3/bt/public/nov17/darshan	_03_1117_final.pd	df]		
Adopt http://www.ieee80 This resolution is identic)2.org/3/bt/public/nov17/dar al to comment #434.	shan_03_117_fir	al.pdf							
There is a typo in the file	er comment resolution comp e name. The file used is 3/bt/public/nov17/darshan_(ſJ							

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

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<i>Cl</i> 30 Thompson	SC 30.9.1.1.5 , Geoffrey	P 36 Individual	L 19	# r01-486	C/ 30 Thompso	SC 30.9.1.1. n, Geoffrey	7a P 41 Individual	L 24	# r01-488
Comment	Туре Т	Comment Status A		Management	Comment	t Type E	Comment Status A		Editorial
permis	sible to change the	nderstand the rules for mar behavior of a managemer	nt object. Thus i	t is improper to delete		COMMENT: Ball	oting draft seems to be OK.	. Compare doc de	oes not seem to match
	the enumerated va a test mode.	lues of an established obje	ct. I do underst	and the desired to not	Suggeste	dRemedy			
Suggested					Make	sure compare do	c is correct next time.		
	-	numerated values and add	text to those tw	o that says 'Not	Response	Э	Response Status C		
	rted for clause 145			,	ACCE	EPT IN PRINCIPL	E.		
Response ACCE	PT IN PRINCIPLE.	Response Status C			No ch	nanges to the draf	t result from accepting this	comment.	
- undo from a	the following chang the strikeouts for 't n existing object 'or Figure 145-13" a	est' and 'otherFault' as we	can't remove stu	ıff	differe Fram	ential document.	enerated by Frame. As far a Not that all numbering goes y new Tables/Figures/Equa nt.	out the window in	n a compare file as
- Inser	t "Type 3 and Type talize TRUE	4 PSEs do not use the val	ues "test" or "otł	nerFault".	C/ 30 Thompso	SC 30.12.2.1 n, Geoffrey	.9 P 41 Individual	L 46	# r01-489
This re	esolution is identical	l to comment #368.			Comment		Comment Status A	tandarda narma	Editorial
C/ 30	SC 30.9.1.1.6	P 37	L 51	# r01-487			rding does not conform to s	landards norms.	
hompson	, Geoffrey	Individual			••	dRemedy ge 'can' to 'may'.			
	Туре Т	Comment Status A		Management					
permis	COMMENT: As I ur ssible to change the nge the behavior as	nderstand the rules for mar behavior of a managemer s shown.	agement, it is in t object. Thus i	nproper and not t is improper to delete	Response ACCE		Response Status C		
Suggested	•				CI 30	SC 30.12.2.1	.18 P 43	L 4	# r01-490
	he changes to ame	nd.			Thompson	n, Geoffrey	Individual		
Response ACCE	PT IN PRINCIPLE.	Response Status C			Comment LATE BCD3	COMMENT: RE:	Comment Status R 'in units of 0.1 W.' Would t	that be expressed	<i>Management</i> I in straight binary or
Adopt	changes in http://w	ww.ieee802.org/3/bt/public	/nov17/stewart	02 1117 final.pdf	-	dRemedy			
•	0	0	_		Clarif	-			
This re	esolution is identical	to comment #363.			Response		Response Status C		
					REJE				
					Ad ho	oc recommends re	ejecting this comment.		
					Claus	se 30 objects are a	abstract (they are not encod	led in any way).	

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 r01-490

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IEEE P802.3bt D3.1 4-Pair PoE 1st S	ponsor recirculation ballot comments
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••• ••••========	P L dividual	# r01-491	Cl 145 SC 145 Thompson, Geoffrey	.1 P103 Individua	L 16	# r01-493		
mment Type E Comment Stat	tus A	Editorial	Comment Type E	Comment Status R		Editoria		
LATE COMMENT: I'm completely lost he			LATE COMMENT	T: Improve clarity of sentence.				
like what is being done is comepletely im from a bit string to enumerated.) When I	nproper. (You can't change ar	n existing attribute	SuggestedRemedy					
nowhere near the same.		the balloting doc it is		e interface between each of the				
ggestedRemedy				rface between each of the pov	ver elements is calle	d the Power Interface		
Make sure compare doc is correct next ti	time. If it isn't correct it does r	nore harm than good.	(PI).'					
sponse Response Statu		0	Response	Response Status C				
ACCEPT IN PRINCIPLE.			REJECT.					
The compare documents are generated by are used correctly for remaining revisions	by Frame. The editor will mains.	ke sure all settings # r01-492	elements" makes	emedy only adds ambiguity. " it sound like an interface betw hat use the word "power" in the ement").	veen the PSE and th	e PD since those are		
••••••••••••	dividual	# 101-492	C/ 145 SC 145	.1 <i>P</i> 103	L17	# r01-494		
omment Type T Comment Stat	tus D	Mangament	Thompson, Geoffrey	Individua	I			
LATE COMMENT: As I understand the ru	0	Comment Type E	Comment Status A		Editoria			
permissible to change the behavior of a r	management object. Thus it i	is improper to delete	LATE COMMENT: Improve clarity of text. SuggestedRemedy					
or change the behavior as shown.								
ggestedRemedy			Swap order of PD	sentence and link section set	ntence.			
Undo change.			Response	Response Status C				
pposed Response Response Statu REJECT.	us Z		ACCEPT IN PRIM	NCIPLE.				
This comment was WITHDRAWN by the	e commenter.		Change: The cabling portion	on of the system is defined as	the Link Section Th	e interface between		
			The cabling portion of the system is defined as the Link Section. The interface between each of the elements is called the Power Interface (PI). The PD is an element of the					
This comment was withdrawn prior to the	powered DTE. The link section shares 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.							
			use of the cabling	on of the system is defined as g with the link segment used fo powering DTE but may, inste	or data transmission.	The PSE is normally		

Cl 145 SC 145.2.3 Thompson, Geoffrey	P 108 Individual	L 14	# r01-495			
Comment Type E Comment Status A LATE COMMENT: Line breaks within a term.						
SuggestedRemedy Use non-breaking das	h or an early required return.					
Response	Response Status C					

ACCEPT.