C/ 30 SC 30.12. Thompson, Geoffrey	•	vidual	L	# r01-492	C/ 1 Rannow, R	SC 1.4 K	P 4 IEEE/SELF	L 34	# <u>r01-31</u>
Comment Type T	Comment Statu	s D		Mangament	Comment	Туре Т	Comment Status R		Editori
LATE COMMENT:	As I understand the rul ge the behavior of a m	es for manag		per and not	1.4.31 Alterna conne	Ba pairset: Eith ative B, as listed ctions are refer	er of the two valid 4-conduc d in IEEE 802.3, 145.2.4. Th red to as Mode A and Mode ent. Is this eight (8) or four	ne PSE Alternative B, respectively, at	ternative A or A and Alternative B
Undo change.					Suggested	Remedy			
Proposed Response	Response Status	s Z				3a pairset: vali 02.3, 145.2.4.	d 4-conductor connections, "	Alternative A or Alt	ternative B, as listed in
REJECT.					Response		Response Status C		
This comment was	WITHDRAWN by the	commenter.			REJE	CT.			
This comment was	withdrawn prior to the	start of comr	nent resolution.		The de	finition clearly	refers to a 4-wire connection	n.	
C/ 30 SC 30.12 Thompson, Geoffrey	•	vidual	L	# <u>r01-491</u>					
like what is being d	I'm completely lost her one is comepletely imp enumerated.) When I k ame.	oroper. (You	can't change an e	xisting attribute					
	e doc is correct next tin	ne. If it isn't o	correct it does mo	re harm than good.					
Response ACCEPT IN PRINC	Response Status	s C							
•	ments are generated b or remaining revisions.		e editor will make	sure all settings					
C/ 00 SC 0 Turner, Michelle	Ρ	0	L 0	# <u>r01-1</u>					
Comment Type E This draft meets all	Comment Statu editorial requirements			Editorial					
SuggestedRemedy									
Response ACCEPT IN PRINC	Response Status	s C							
No changes to the	draft result from accept	ting this com	ment.						

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Page, Line Pa **4** Li **34**

C/ 1	SC 1.4.338	P 24	L 40	# r01-60	C/ 1	SC 1.4.338	P 24	L 41	# r01-3
Ysebood	t, Lennart	Philips Lighting			Anslow,	Peter	Ciena Corpor	ation	

Fditorial

Comment Type ER Comment Status A

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

1. Change the editing instruction from "Change 1.4.338 (as modified by IEEE Std 802.3bu-2016) as follows:"

to "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 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."

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 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.

This resolution is identical to comment #3.

C/ 1	SC 1.4.338	P 24	L 41	# r01-3
Anslow, Pete	r	Ciena Cor	poration	
Comment Typ	be ER	Comment Status A		Editorial

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 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	Pa 24	Page 2 of 130
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	Li 41	12/1/2017 3:17:46 PM
SORT ORDER: Page, Line		

Editorial

C/ 1	SC 1.4.338	P 24	L 51	#	r01-326
Stewart, He	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, Heath	Analog Devic	es Inc.						
Comment Type E	Comment Status R		Editorial					
The sentence structure does not quite work with the "and". As written each clause requires a verb. A PD that requests Class 4 during Physical Layer classification, supports Multiple-Event Classification and Data Link Layer classification (see IEEE 802.3, Clause 33).								
SuggestedRemedy Add "supports" before "D	ata Link Layer"							
Response REJECT.	Response Status C							
Comment should addres	s line 17. The change requ	uested is alread	y in the definition.					
C/ 1 SC 1.4.417	P 25	L 17	# r01-54					

 Agnes, Andrea
 STMicroelectronics

 Comment Type
 G

 Comment Status

The definition:

1.4.417 Type 2 PD: A PD that provides a Class 4 signature during Physical Layer classification, understands 2-Event classification, and is capable of Data Link Layer classification requests Class 4 during Physical Layer classification, supports Multiple-Event Classification, and supports Data Link Layer classification (see IEEE 802.3, Clause 33).

Definitions

uses a Multiple-Event Classification, but it is not defined in Clause 33.

SuggestedRemedy

Use the 2-Event Classification in the definition as called in Clause 33. Then the definition became:

1.4.417 Type 2 PD: A PD that provides a Class 4 signature during Physical Layer classification, understands 2-Event classification, and is capable of Data Link Layer classification requests Class 4 during Physical Layer classification, supports 2-Event Classification, and supports Data Link Layer classification (see IEEE 802.3, Clause 33).

Response Response Status C

ACCEPT IN PRINCIPLE.

Change "Mulitple-Event" to "2-Event"

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	Pa 25	Page 3 of 130
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	Li 17	12/1/2017 3:17:46 PM
SORT ORDER: Page, Line		

				D - -		
C/ 1SC 1.4.418aaP 25L 28Agnes, AndreaSTMicroelectronics	# r01-56	C/ 1 S Agnes, Andrea	SC 1.4.418a a a	C P 25 STMicroelect	L 35 ronics	# <u>r01-55</u>
Comment Type G Comment Status A Comment TYPE3 (only if Comment TYPE4 is accepted) The definition: 1.4.418aa Type 3 PD: A PD that requests Class 1 to Class 6 during Physical classification, implements Multiple-Event classification, and accepts power on both Modes simultane 802.3, Clause 145). SuggestedRemedy Change definition to: 1.4.418aa Type 3 PD: A single-signature PD that requests Class 1 to Class 1 to Class ignature PD that requests Class 1 to Class 4 on both Modes during Physical signature, implements Multiple-Event classification, and accepts power simultaneously. (See IEEE 802.3, Clause 145).	eously. (See IEEE ss 6, or a dual- sical Layer	Comment Typ Comment The defini 1.4.418ac classificat classificat 145). doesn't in SuggestedRet Change d 1.4.418ac signature	e G TYPE4 tion: Type 4 PD: <i>i</i> on, impleme on, and acce clude dual sig <i>nedy</i> efinition to: Type 4 PD: <i>i</i> PD that requi	Comment Status A A PD that requests Class 7 o nts Multiple-Event classificati pts power on both Modes sir gnature PDs because Class5 A single-signature PD that re ests Class 5 on at least one I nts Multiple-Event classificati	ion, is capable of multaneously. (S is requested quests Class 7 of Mode during Phy	f Dáta Link Layer see IEEE 802.3, Clause or Class 8, or a dual- ysical Layer
Response Response Status C ACCEPT IN PRINCIPLE. Change definitions to: 1.4.418aa Type 3 PD: A single-signature PD that requests Class 1 to Class		145). <i>Response</i> ACCEPT	N PRINCIPL	pts power on both Modes sir <i>Response Status</i> C E.	nuitaneousiy. (S	NEE 602.3, Clause
 signature PD that requests Class 1 to Class 4 on both Modes, during Phy classification. Additionally, the PD implements Multiple-Event classification 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 Cla signature PD that request Class 5 on at least one Mode, during Physical classification. Additionally, the PD implements Multiple-Event classification Data Link Layer classification, and accepts power on both Modes simulta IEEE 802.3, Clause 145). This resolution is identical to comment #288. 	on, and accepts ss 8, or a dual- Layer on, is capable of	signature classificat power on 1.4.418ac signature classificat Data Link	PD that requion. Additionation Additionation Modes s Type 4 PD: 7 PD that requion. Additionation	A single-signature PD that re ests Class 1 to Class 4 on bo ally, the PD implements Multi simultaneously. (See IEEE 80 A single-signature PD that re est Class 5 on at least one M ally, the PD implements Multi cation, and accepts power of 5).	oth Modes, durin ple-Event classi 02.3, Clause 14 quests Class 7 o lode, during Phy ple-Event classi	g Physical Layer fication, and accepts 5). or Class 8, or a dual- sical Layer fication, is capable of
		This resol	ution is identi	cal to comment #288.		

Pa **25** Li **35**

P 29 Philips Lighting Comment Status A er in a Type 2, Type 3, or T or accepting more than 13 se (OCL) requirement in 9.1	ype 4 Endpoin .0 W average	
Comment Status A er in a Type 2, Type 3, or T or accepting more than 13 e (OCL) requirement in 9.1	ype 4 Endpoin .0 W average	nt PSE or Type 2, Type
er in a Type 2, Type 3, or T or accepting more than 13 æ (OCL) requirement in 9.1	.0 W average	nt PSE or Type 2, Type
or accepting more than 13 e (OCL) requirement in 9.1	.0 W average	
ce (OCL) requirement in 9.1	.0 w average	
		Dower shall meet either
		,
incorrect as the equivalen ng to Class here. But do Jirement depends on the a Juction with "more than 13.0	we mean assig ssigned Class.	igned Class ? It would
to read:		
er in a Type 2 Endpoint PS		
- PMD, or meet the require		
er in a Type 3 or Type 4 En Circuit Inductance (OCL) 1 25.4.5.1." Response Status C		
P 29	L 12	# r01-43
Intel Corporation	n	
Comment Status A 5" are new.		Editorial
Response Status C		
14	Comment Status A 145" are new.	145" are new.

Pa **29** Li **12**

C/ 30 SC 30 Anslow, Peter	.2.5	P 31 Ciena Corpo	L 47 ration	# r01-4	Cl 30 Anslow, Pete	SC 30.9.1.1 r	P 35 Ciena Corp	L 9 poration	# r01-6
Comment Type The editing inst "Delete the "oPl Package (mand Table 30-4." makes changes 30.9.1.1, new ro SuggestedRemedy	uction: D managed object atory)" column fro to Table 30-4. Ho ws are needed in t into the draft and	nt Status A class" and "aPD m Table 30-4. De owever, now that this table.	ID" rows as well elete the row for ' other subclause	Editorial as the "PD Basic aPSEShortCounter" in s have been added to	Comment Ty, The editi Also, add 30.9.1.1. is also co SuggestedRe Replace "Change Insert ne Insert ne Insert ne Insert ne	be E ng instructions ling 30.9.1.1.9 10, which was onfusing. emedy the current ed 30.9.1.1.2 thr w subclause 3 w subclause 3 w subclause 3	Comment Status A s for subclauses in 30.9.1.1 a and 30.9.1.1.9b, then de formerly 30.9.1.1.11 and t iting instructions: ough 30.9.1.1.9 as follows 0.9.1.1.5a and 30.9.1.1.5b 0.9.1.1.7a and 30.9.1.1.7b 0.9.1.1.8a and 30.9.1.1.8b	1 are nested whic eleting 30.9.1.1.1 then adding 30.9. : o as follows: o as follows o as follows:	0 and then changing 1.1.10a and 30.9.1.1.10b
C/ 30 SC 30 Anslow, Peter		P 32 Ciena Corpo	L7 ration	# r01-5).9.1.1.10. 30.9.1.1.10 (re	enumbered from 30.9.1.1.1	1 by the deletion	of 30.9.1.1.10 above) as
As the names o "aLldpXdot3Rer "aLldpXdot3Loc have to be mad SuggestedRemedy Show the chang "aLldpXdot3Rer	f "aLldpXdot3LocF nPowerPairContro ReducedOperation e to Table 30-7. es for "aLldpXdot3 nPowerPairContro ReducedOperation	lable" have been nPowerValue" ha BLocPowerPairCo lable" and the de	changes (to have a seen deleted, so been deleted, so been deleted, so both to be a second sec	<i>Editorial</i> e a double I) and corresponding changes	with: "Change Insert ne Change 3 Insert ne Change 3 Insert ne Delete 3(Change 3 Insert ne	30.9.1.1.2 thr w subclause 3 30.9.1.1.6 and w subclause 3 30.9.1.1.8 as 1 w subclause 3 30.9.1.1.9 as 1 w subclause 3 .9.1.1.10 and 30.9.1.1.11 as w subclause 3 propriate place	0.9.1.1.8a and 30.9.1.1.8b ollows: 0.9.1.1.9a as follows: insert a new 30.9.1.1.10 a	: o as follows: o as follows: o as follows: as follows: 11b as follows: "	erLoadCounterB
					Response		Response Status C		

Pa **35** Li **9**

C/ 30 Stewart, He	SC 30.9.1.1.5 eath	P 36 Analog Devid	L 11 es Inc.	# r01-368	C/ 30 Yseboodt,	SC 30.9.1.1.5 Lennart	Р 36 Philips Lighting	L 31	# r01-62
Comment T *** Com		Comment Status A with the file 94876100003-	stewart_01_111	Pres: Stewart1 7.pdf attached ***		51	Comment Status A State diagram is in the state I	DLE due to th	Ec ne variable
	owerDetectionSt	shed out to aPSEPowerDet atusS. This brings the remo-			_	se this refers to a	state diagram boolean variab	le, the conve	ntion is to capitalize
SuggestedF	Remedy				Suggested	IRemedy			
See ste	ewart_01_1117.p	df for remedy.			Chang	e true with TRUE			
Response		Response Status C			Response		Response Status C		
ACCEF	PT IN PRINCIPLI	Ξ.			ACCE	PT IN PRINCIPLI	Ξ.		
- undo t from an - Add "c - Insert	n existing object or Figure 145-13	nges: · 'test' and 'otherFault' as w " after "Figure 33-9" be 4 PSEs do not use the v			- undo from a - Add - Inser	n existing object 'or Figure 145-13	nges: 'test' and 'otherFault' as we c ' after "Figure 33-9" ve 4 PSEs do not use the valu		
CI 30	SC 30.9.1.1.5	P 36	L 19	# r01-486	This re	esolution is idention	al to comment #368.		
Thompson,	Geoffrey	Individual							
permiss two of t	COMMENT: As I sible to change the the enumerated v test mode.	Comment Status A understand the rules for ma he behavior of a manageme values of an established ob	ent object. Thus	s it is improper to delete					
Restore		l enumerated values and ac 5 operation'.	ld text to those t	two that says 'Not					
Response		Response Status C							
•	PT IN PRINCIPLI								
- undo t from an - Add "c - Insert	n existing object or Figure 145-13	nges: 'test' and 'otherFault' as w " after "Figure 33-9" be 4 PSEs do not use the v							
This res	solution is idention	cal to comment #368.							

Pa **36** Li **31**

C/ 30 SC 30.9.1.1.5		L 41	# r01-63	C/ 30	SC 30.9.1.1.		°37	L 4	# r01-8
Yseboodt, Lennart	Philips Lighting			Anslow, Pet	er	Cie	na Corpo	oration	
Comment Type T	Comment Status A		Management	Comment T	ype E	Comment State	ıs A		Editorial
state POWER_ON_PR	tatusA: /eringPowerAltA" indicates tha I. The enumeration "faultAltA" I due to the variable error_con es the PSE State diagram is in	indicates that t idition_pri = tru	the PSE State diagram e. The enumeration	DEFINE in 30.9. Same is SuggestedF	D AS: section 1.1.5). ssue in 30.9.1. <i>Remedy</i>	. That is on line 8 v	vhere the		of the BEHAVIOUR semicolon. (see example
Hard-links Alternative A right.	to the Primary state diagram.	Only has a 50	% chance of being	Response ACCEP	Ŧ	Response Statu	s C		
SuggestedRemedy				ACCEP	1.				
enumeration "faultAltA" alt_pri='a', or the state I (if alt_pri='a') or error_ca	I if alt_pri='a', or the state POV indicates that the PSE State of DLE_SEC if alt_pri='b' due to ondition_sec = TRUE (if alt_pr as the PSE State diagram is in	diagram is in th the variable en ri='b'). The enu	e state IDLE_PRI if ror_condition_pri = true meration						
Response	Response Status C								
ACCEPT IN PRINCIPLI	Ξ.								
state POWER_ON_PRI enumeration "faultAltA" alt_pri='a', or the state I TRUE (if alt_pri='a') or e	veringPowerAltA" indicates tha I if alt_pri='a', or the state POV indicates that the PSE State of DLE_SEC if alt_pri='b' due to error_condition_sec = TRUE (i es the PSE State diagram is in	VER_ON_SEC diagram is in th the variable err if alt_pri='b'). Th	: if alt_pri='b'. The he state IDLE_PRI if ror_condition_pri = he enumeration						
Also, make similar char	nge for the Note directly below								

Pa **37** Li **4**

/ 30 SC 30.9.1.1.5b P37 L10 # r01-64	C/ 30 SC 30.9.1.1.5b P37 L27 # r01-9							
seboodt, Lennart Philips Lighting	Anslow, Peter Ciena Corporation							
omment 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. uggestedRemedy Replace text by:	Comment Type E Comment Status A Editorial The text at the end of 30.9.1.1.5b seems to be the equivalent to that at the end of 30.9.1.1.5a, so it should start with "NOTE" SuggestedRemedy Add "NOTE" Add "NOTE" Add "NOTE" Add "NOTE" SuggestedRemedy Add "NOTE" at the start of the text. Response Response Status C ACCEPT. C/ 30 SC 30.9.1.1.5b P37 L 27 # r01-329 Stewart, Heath Analog Devices Inc. F01-329							
"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	Comment Type E Comment Status A Editor 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.							
above.;" esponse Response Status C ACCEPT IN PRINCIPLE. 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.;"	C/ 30SC 30.9.1.1.5bP 37L 28# r01-44RAN, ADEEIntel CorporationComment TypeEComment StatusAThe last paragraph seems to be a NOTE as in 30.9.1.1.51.							
Also, make similar change to Note directly below (word Note to be added to line 27 by comment 9).	SuggestedRemedy Change to NOTE paragraph format or insert "NOTE" at the beginning of this paragraph. Response Response Status C ACCEPT IN PRINCIPLE.							
	Add "NOTE" at the start of the text. This resolution is identical to comment #9.							

Pa **37** Li **28**

Stewart, He	SC 30.9.1.1.6 eath	P 37 Analog Devic	L 32 es Inc.	# r01-363	CI 30 Yseboodt,	SC 30.9.1 Lennart	.1.7	P 38 Philips Lightir	L 9 na	#	r01-65
Comment 7		Comment Status A		Pres: Stewart2	Comment		Comm	ent Status A	.9		Editorial
*** Cor	mment submitted with	h the file 94875700003-s		.pdf attached ***	"This o and	counter is incr	emented whe	en the Type 1 and		te diagrar	
single-		r Cl 145 dual-signature A			The re	ference Figur		es not belong with a		E.	
Suggested	Remedy				Suggested	<i>Remeay</i> ve "and Figur	145-13"				
See ste	ewart_02_1117.pdf f	or remedy.			Response	Ŭ		nse Status C			
Response	R	esponse Status C			ACCE		Respon				
ACCE	PT IN PRINCIPLE.										
Adopt	changes in http://ww	w.ieee802.org/3/bt/public	c/nov17/stewart_	_02_1117_final.pdf	CI 30 Yseboodt,	SC 30.9.1 Lennart	.1.7a	Р 38 Philips Lightir	L 15 ng	#	r01-66
CI 30	SC 30.9.1.1.6	P 37	L 51	# r01-487	Comment	Туре Т	Comm	ent Status A			Management
Thompson,	, Geoffrey	Individual				nvalidSignatu					· - ·
permis or char	COMMENT: As I und	Comment Status A lerstand the rules for ma behavior of a manageme shown.			15) en Hard-I Also, v	ters the state inks Alternativ we current do	IDLE_PRI dure A to the Pr not have a in	en the Type 3 and ⁻ ue to sig_pri [?] vali imary or Alternativo valid signature cou CounterA to also s	id.;" e B to the Seco inter for single-s	ndary stat	te diagram.
00	he changes to amend	J.			Suggested	Remedy					
Limit th Response	he changes to amend	l. esponse Status C			Chang	je to: "This cour 145-13, Figu	re 145-15, an	ented when the do Id Figure 145-16, v			
Limit th Response ACCEF	he changes to amend R PT IN PRINCIPLE.		c/nov17/stewart_	.02_1117_final.pdf	Chang Figure depen	ge to: "This cour 145-13, Figu ding on the va	re 145-15, an alue of alt_pri	d Figure 145-16, w , returns 'invalid'.;"			
Limit th Response ACCEF Adopt o	he changes to amend R PT IN PRINCIPLE.	esponse Status C w.ieee802.org/3/bt/public	c/nov17/stewart_	.02_1117_final.pdf	Chang	ge to: "This cour 145-13, Figu ding on the va	re 145-15, an alue of alt_pri	d Figure 145-16, v			
Limit th Response ACCEF Adopt o This re C/ 30	he changes to amend Ri PT IN PRINCIPLE. changes in http://www esolution is identical t SC 30.9.1.1.6	esponse Status C w.ieee802.org/3/bt/public o comment #363. P37	L 54	02_1117_final.pdf # <u>r01-10</u>	Chang Figure depen Response	ge to: "This cour 145-13, Figu ding on the va	re 145-15, an alue of alt_pri	d Figure 145-16, w , returns 'invalid'.;"			
Limit th Response ACCEF Adopt of This re C/ 30 Anslow, Pe Comment 7 "33.5.1 applied	he changes to amend RT IN PRINCIPLE. changes in http://www esolution is identical t SC 30.9.1.1.6 eter Type E C 1.2.10" is an external	esponse Status C w.ieee802.org/3/bt/public o comment #363. P 37 Ciena Corpor Comment Status A cross-reference, so it sh	L 54 ation	# <u>r01-10</u> Editorial	Chang Figure depen Response	ge to: "This cour 145-13, Figu ding on the va	re 145-15, an alue of alt_pri	d Figure 145-16, w , returns 'invalid'.;"			
Limit th Response ACCEF Adopt o This re C/ 30 Anslow, Pe Comment T "33.5.1 appliec Same i	he changes to amend R PT IN PRINCIPLE. changes in http://www esolution is identical t SC 30.9.1.1.6 eter Type E C 1.2.10" is an external d. issue in 30.9.1.1.7 w	esponse Status C w.ieee802.org/3/bt/public o comment #363. P 37 Ciena Corpor Comment Status A cross-reference, so it sh	L 54 ation	# <u>r01-10</u> Editorial	Chang Figure depen Response	ge to: "This cour 145-13, Figu ding on the va	re 145-15, an alue of alt_pri	d Figure 145-16, w , returns 'invalid'.;"			
Limit th Response ACCEF Adopt of This re C/ 30 Anslow, Pe Comment T "33.5.1 applied Same i Suggested	he changes to amend R PT IN PRINCIPLE. changes in http://www esolution is identical t SC 30.9.1.1.6 eter Type E C 1.2.10" is an external d. issue in 30.9.1.1.7 w <i>IRemedy</i>	esponse Status C w.ieee802.org/3/bt/public o comment #363. P 37 Ciena Corpor Comment Status A cross-reference, so it sh	L 54 ation hould have chara	# <u>r01-10</u> Editorial	Chang Figure depen Response	ge to: "This cour 145-13, Figu ding on the va	re 145-15, an alue of alt_pri	d Figure 145-16, w , returns 'invalid'.;"			
Limit th Response ACCEF Adopt of This re C/ 30 Anslow, Pe Comment T "33.5.1 applied Same i Suggested	he changes to amend R PT IN PRINCIPLE. changes in http://www esolution is identical t SC 30.9.1.1.6 eter Type E C 1.2.10" is an external d. issue in 30.9.1.1.7 w <i>IRemedy</i> character tag "Extern	esponse Status C w.ieee802.org/3/bt/public o comment #363. <i>P</i> 37 Ciena Corpor Comment Status A cross-reference, so it sh ith "33.5.1.2.6"	L 54 ation hould have chara	# <u>r01-10</u> Editorial	Chang Figure depen Response	ge to: "This cour 145-13, Figu ding on the va	re 145-15, an alue of alt_pri	d Figure 145-16, w , returns 'invalid'.;"			

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

Pa **38** Li **15**

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 Management 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 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'.;" Response Response Status C	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_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 30.9.1.1.9 P 39 L 29 # r01-331 Stewart, Heath Analog Devices Inc. #
Yseboodt, Lennart 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.;" 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'.;" Response Response Status CACCEPT.	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. 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. Response Response Status C ACCEPT. ACCEPT.

Pa **39** Li **29**

C/ 30 SC 30.9.1.1.9	a P 39	L 35	# <u>r01-70</u>	C/ 30 SC 30.9	.1.1.9a	P 39	L 46	# <u>r</u> 01-7		
Yseboodt, Lennart	Philips Lighting			Anslow, Peter		Ciena Corpora	ition			
Comment Type T	Comment Status A		Management	Comment Type E	Comment	Status A		Editoria		
aPSEOverLoadCounter			F 4F) antone the state	The new subclaus	e for "aPSEOverL	oadCounterB" sl	nould be 30.9.1.	.1.9b		
ERROR_DELAY_PRI.;	ented when the PSE state diag	gram (Figure 14	5-15) enters the state	SuggestedRemedy						
				Re-number it to 30.9.1.1.9b						
	to the Primary or Alternative I	B to the Second	lary state diagram.	Response	Response	Status C				
SuggestedRemedy				ACCEPT IN PRIN	ICIPLE.					
	ented when the PSE state diag R_DELAY_PRI if alt_pri='a', or if alt_pri='b'.;"			Change to: "This counter is in enters the state E ERROR_DELAY_	RROR_DELAY_SI			45-15 or Figure 145-16) ate		
Response	Response Status C			ERROR_DELAT_	PRI II alt_pri= b .;					
ACCEPT.				 Fix subclause nu 	Imbering.					
C/ 30 SC 30.9.1.1.9 Yseboodt, Lennart	a P39 Philips Lighting	L 46	# r01-71	This resolution is	identical to comme	ent #71.				
Comment Type T	Comment Status A		Management	C/ 30 SC 30.9	.1.1.10a	P 40	L 23	# r01-72		
<i>,</i> ,	OverLoadCounterB) has the sa	me number as	U	Yseboodt, Lennart		Philips Lighting	g			
	A and has a copy-paste mista			Comment Type T	Comment	Status A		Managemen		
aPSEOverLoadCounter	B:			aPSEMPSAbsent "This counter is in	CounterA: cremented when the	ne PSE state dia	oram (Figure 1	45-15) transitions		
	ented when the PSE state diag	gram (Figure 14	5-16) enters the state	directly from the s	tate POWER_ON_ lone being asserte	PRI to the state				
Hard-links Alternative A	to the Primary or Alternative I	B to the Second	lary state diagram.	Hard-links Alterna	tive A to the Prima	ry or Alternative	B to the Secon	dary state diagram.		
SuggestedRemedy				SuggestedRemedy						
	ented when the PSE state diac R_DELAY_SEC if alt_pri='a', o alt_pri='b'.;"			Change to: "This counter is incremented when the PSE state diagram (Figure 145-15 or Figure 145- transitions directly from the state POWER_ON_PRI to the state IDLE_PRI due to mpdo_timer_pri_done being asserted if alt_pri='a', or, transitions directly from the state POWER_ON_SEC to the state IDLE_SEC due to mpdo_timer_sec_done being asserted						
				alt_pri='b'.;"				-		
- Fix subclause number	ing.			an_pn= b .,						
- Fix subclause number Response ACCEPT.	ing. Response Status C			Response	Response	Status C				

Pa **40** Li **23**

C/ 30 SC 30.9.1.1.10b Yseboodt, Lennart	P 40 Philips Lighti	L 34 na	# r01-73	Cl 30 Thompsor	SC 30.12.2.1 . n, Geoffrey	9 P41 Individ		46	# r01-489		
	ent Status A en the PSE state c ON_SEC to the sta	liagram (Figure 1		Comment LATE Suggested Chang	Editorial						
Hard-links Alternative A to the Pr	rimary or Alternativ	e B to the Secon	dary state diagram.	Response ACCE		Response Status	L				
SuggestedRemedy											
Change to: "This counter is incremented whe transitions directly from the state				CI 30 Yseboodt,	SC 30.12.2.1. Lennart	-	Lighting	13	# r01-74		
tmpdo_timer_sec_done being as POWER_ON_PRI to the state IE alt_pri='b'.;"	serted, if alt_pri='a	a', or, transitions (directly from the state		51	<i>Comment Status</i> ass:: "A read-only val 6."		es the PD Cla	Management ass of the detected		
ACCEPT.	ACCEPT.					Is also defined in 145.2.7. It is unclear from this text if this is the requested or assigned Class. From reading 33.2.6 I gather it was intended as the requested Class. This is tricky because "requested Class" is not a concept known in Clause 33.					
Thompson, Geoffrey	Individual			Suggestee	dRemedy						
LATE COMMENT: Balloting draf balloting draft.	eent Status A t seems to be OK.	Compare doc de	<i>Editorial</i> bes not seem to match	and 1	d-only value that	indicates the PD Clas d Type 4 devices use 30.12.3.1.10					
SuggestedRemedy Make sure compare doc is corre	ct next time			Response		Response Status	с				
•	nse Status C			ACCE	PT.						
No changes to the draft result fro	om accepting this o	comment.									
The compare book is generated differential document. Not that al Frame introduces many new Tak indicate what is not right	I numbering goes	out the window in	a compare file as								

indicate what is not right.

Pa **42** Li **13**

C/ 30 SC 30.12.2.1.14 Yseboodt, Lennart	P 42 Philips Lighting	L 30	# r01-75	<i>CI</i> 30 Thompson,	SC 30.12.2.1.1 Geoffrey	18 P 43 Individual	L 4	# r01-490
Comment Type T Cor	nment Status A		Management	Comment Ty	/pe E	Comment Status R		Management
aLldpXdot3LocPowerType:: "The second bit indicates PSE	or PD. A PSE shall se	et this bit to indi	cate a PSE. A PD shall	LATE C BCD?	OMMENT: RE: '	in units of 0.1 W.' Would	that be expresse	d in straight binary or
set this bit to indicate a PD."				SuggestedR	emedy			
Why do we have 'shalls' on PS				Clarify.				
33/145 or Clause 79, not here	. Clause 79 already ha	s a shall for this	3.	Response		Response Status C		
SuggestedRemedy	and a different			REJECT	Г.			
Strike last two sentences in qu				Ad hoc	ecommends rej	ecting this comment.		
Response Resp ACCEPT IN PRINCIPLE.	oonse Status C			Clause	30 objects are at	ostract (they are not enco	ded in any way).	
Editor to remove all shalls on	PSEs and PDs in claus	se 30.		C/ 30	SC 30.12.2.1.1		L8	# r01-77
C/ 30 SC 30.12.2.1.17	P 42	L 43	# r01-76	Yseboodt, L	ennart	Philips Ligh	nting	
Yseboodt, Lennart	Philips Lighting	-		Comment Ty	•	Comment Status A		Management
Comment Type E Cor	nment Status A		Editorial			ed power value that was u d from the remote systen		compute the power that
"PD requested power value is this power allocation if accept		erage power the	e PD ever draws under	The PD:	s power request	value is a function of the		it needs. The quoted
Missing determiner.					nt is incorrect.			
SuggestedRemedy				SuggestedR Strike se				
Replace by:					entence.	Desmana Ctatura		
"The PD requested power valu under this power allocation if a		ut average pow	er the PD ever draws	Response ACCEP	Т.	Response Status C		
	oonse Status C			C/ 30	SC 30.12.2.1.1	8a P 43	L 14	# r01-11
ACCEPT.				Anslow, Pete	er	Ciena Corp	oration	
				Comment Ty	/pe ER	Comment Status A		Editorial
				inserted "30.12.2	subclauses "30. 1.18z1" through	"30.12.2.1.18z15" shoul 12.2.1.18aa" through "30 "30.12.2.1.18z17". org/3/WG_tools/editorial	.12.2.1.18ab15" s	should be numbered as
				SuggestedR				
				00		change "30.12.2.1.18z1	5" to "30.12.2.1.1	8z17" and also re-
				number		12.2.1.18aa" through "30		
				Response ACCEP	Т.	Response Status C		
TYPE: TR/technical required ER/			I T/technical E/editorial G ISE STATUS: O/open W/v			/withdrawn Li		Page 14 of 130

SORT ORDER: Page, Line

Cl 30 SC 30.1	2.2.1.18a	P 43 Philips Lighting	L 15	# r01-78	C/ 30 Yseboodt,	SC 30.12.2	.1.18g	P 44 Philips Lighti	L 44	# r01-81	
Comment Type T aLldpXdot3LocRe pse_dll_ready_alt(adyA and aLld X) and pd_dll_	ent Status A DXdot3LocReadyB we ready_mode(X).	-	<i>Management</i> s for the independent	Comment Type E Comment Status A "APPROPRIATE SYNTAX: The same as used for aPSEPowerPairsExt"					<i>Editori</i> Ext"	
Those variables no	o longer exist a	ind are no longer nee	ded.		Refere	enced object do	es not exist.				
SuggestedRemedy					Suggested	lRemedy					
Remove in the ent Clause 79, Clause		Kdot3LocReadyA and	aLldpXdot3L	ocReadyB (Clause 30,				rom aPSEPowerP d by Table 79-3a.		vever remove the line	
Response	Respor	se Status C			Response		Respon	se Status C			
ACCEPT.					ACCE	PT IN PRINCIP	PLE.				
Yseboodt, Lennart Comment Type E		P 43 Philips Lighting ent Status A	L 49	# <u>r01-79</u> Editorial	An EN altA: A	PPROPRIATE		ould be: has one of the follo	owing entries:		
It makes more ser	ise to put these	verValueA is 30.12.2. e after 30.12.2.1.17	1.18c.		both: Both Alternatives						
aLldpXdot3LocPD	RequestedPov	vervalue.			Cl 30	SC 30.12.2	.1.18g	P 44	L 51	# <u>r01-82</u>	
SuggestedRemedy					Yseboodt,	Lennart		Philips Lighti	ng		
	RequestedPov RequestedPov			1 30.12.2.1.18d		PSE this attrib	ute contains	ent Status A the value of the a of this attribute an		<i>Manageme</i> Ext attribute (see	
Response	Respor	se Status C			T h	,. La stat han dhar a f		- 'se the'baata			
ACCEPT.		-				hould be the al	SEPowerPa	airs attribute.			
		5			Suggested	-					
C/ 30 SC 30.1	2.2.1	P44	L 42	# r01-80		·		PSEPowerPairs			
Yseboodt, Lennart		Philips Lighting			Response		Respon	se Status C			
Comment Type T		ent Status A		Management	ACCE	PT.					
There are no Clau defined in Table 7		or 'PSE powering stat	tus' and 'PD p	oowering status' as							
SuggestedRemedy											
Editor to create ob	jects with appr	opriate content.									
Response	Respor	se Status C									

ACCEPT.

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

Pa **44** Li **51**

C/ 30 So Stewart, Heath	C 30.12.2.1.18h	P 45 Analog Devid	L 2 es Inc.	# r01-364	C/ 30 Yseboodt,	SC 30.12.2.1 Lennart	.18k	Р 45 Philips Lighti	L 48 ing	# <u>r01-85</u>
Comment Type	TR Comme	ent Status A		Pres: Stewart3	Comment	Type TR	Comme	ent Status A		Pres: Stewart
*** Comme	nt submitted with the fi	le 94875800003-	stewart_03_1117	7.pdf attached ***				sExtA and aLldp		ClassExtB seems to be
ill-formed a	Loc/RemDualSigPowe LldpXdot3Loc/RemPov tions it will make more	werClassExtA/B v		gly redundant with the psing and combining		aLldpXdot3Locl		ExtA, aLldpXdot		ExtB, throughout the draft.
SuggestedRem	edy				Response		,	se Status C		
See stewar	t_03_1117.pdf for rem	edy.				PT IN PRINCIPL				
Response ACCEPT IN	Respons	se Status C			adopt o	changes in http:/	//www.ieee8	302.org/3/bt/publi	c/nov17/stewart	_03_1117_final.pdf
	ges in http://www.ieee	302.org/3/bt/publi	c/nov17/stewart	03 1117 final.pdf		solution is ident				
	C 30.12.2.1.18h	P 45 Philips Lighti	L 6	# <u>r01-83</u>						
Comment Type aLldpXdot3 'single-sign	LocDualSigPowerClas	ent Status A sExtModeA is mi	ssing an enumer	Pres: Stewart3 ated value to indicate						
aLldpXdot3	<i>edy</i> singlesig :: Single-sigr LocDualSigPowerClas LocDualSigPowerClas	sExtModeA,	heir remote cour	iterparts.						
Response ACCEPT IN	Respons	se Status C								
adopt chan	ges in http://www.ieee	302.org/3/bt/publi	c/nov17/stewart_	03_1117_final.pdf						
This resolut	tion is identical to com	ment #364.								
C/ 30 So Yseboodt, Lenn	C 30.12.2.1.18j art	P 45 Philips Lighti	L 37 ng	# <u>r01-84</u>						
Comment Type 30.12.2.1.1	E Comme 8j aLldpXdot3LocPDLo	ent Status A bad is at wrong lo	cation.	Editorial						
SuggestedRem Move 30.12	<i>edy</i> 2.2.1.18j aLldpXdot3Lo	cPDLoad to just a	after aLldpXdot3l	_ocPowerTypeExt.						
Response ACCEPT.	Respons	se Status C								

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Page, Line Pa **45** Li **48**

C/ 30 SC 30 Yseboodt, Lennart	0.12.2.1.18m	P 46 Philips Lightii	L 17 ng	# r01-86	C/ 30 Yseboodt,	SC 30.12.2 Lennart	.1.18n	P 46 Philips Lightir	L 31 ng	# r01-87
)		nent Status A	-	Pres: Stewart3	Comment			ent Status A	-	Editoria
Classes.	ted values only lis	st PSE and PD w	hen they should	list the possible	Suggeste	dRemedy		3LocPowerTypeEx	t are confusing.	
SuggestedRemedy - Replace the E	ve text is incompl , ENUMERATED V ual-signature PD				- Cha - Cha	nge type4dualP nge type4single nge type3dualP nge type3single	PD to type4: D to type3du	singlesigPD. JalsigPD.		
* class8 ::: Cl * class7 ::: Cl * class6 ::: Cl * class5 ::: Cl * class5 ::: Cl	ass 7 ass 6 ass 5				Make <i>Response</i> ACCE			se Status C		
* class4 Cl * class3: Cl * class2: Cl * class1: Cl	ass 3 ass 2				<i>Cl</i> 30 Anslow, P	SC 30.12.2 eter	1.180	P 47 Ciena Corpor	L 2 ation	# <u>r01-12</u>
	d55 I				Comment	Type ER	Comme	ent Status A		Editoria
"For during Physical	a single-signatur I Layer Classifica		alue that indicate	es the requested Class ture PD, a read-only	since		ean is not a			ents/words.html#boole an should always be
value set to 'du For a		to a single-signatu	re PD. a read-on	ly value that indicates	Suggeste	dRemedy				
the currently as				a dual-signature PD, a	Page	ge the following 47, line 2 57, lines 3, 23,		s of "boolean" to "E	Boolean":	
aLldpXdot3Loc	DualSigPowerCla	IOUR DEFINED A			Page	225, lines 3, 10 229, line 27				
•	0	assExtModeB to fol	low the style abo	ove.	Response	;	Respon	se Status C		
Response ACCEPT IN PR		nse Status C			ACCE	PT.				
	· • ·									

adopt changes in http://www.ieee802.org/3/bt/public/nov17/stewart_03_1117_final.pdf

This resolution is identical to comment #364.

Pa **47** Li **2**

C/ 30 SC 30.12.2. Yseboodt, Lennart	1.18t P 47 Philips Lighting	L 51	# <u>r01-88</u>	C/ 30 Yseboodt,	SC 30.12.2 Lennart	.1.18ab15	P 52 Philips Lightin	L 9 Ig	# <u>r01-90</u>
Comment Type T aLldpXdot3LocPower value.	Comment Status A DownRequest is a BIT STRING	of size 6, but i	<i>Management</i> t is used as a numeric	Comment Type T Comment Status A Manage aLldpXdot3LocPSEPowerPriceIndex:: "A GET attribute that returns an index of the pri power.;"					
SuggestedRemedy	. Also change the remote.			Very to	erse, does not	explain this is	s a PSE value only	<i>ı</i> .	
Response ACCEPT IN PRINCIF	Response Status C		SuggestedRemedy Replace by: "A GET attribute that returns an index of the price of power being sourced by the PSE. F a PD this value is undefined.;"						
Also, Change description to	. Also change the remote. o: indicates the local PD system is	requesting a p	ower down when the	Add same last sentence to the remote variant. Response Response Status C ACCEPT.					
C/ 30 SC 30.12.2		L 29	# r01-89	C/ 30 Yseboodt,	SC 30.12.3 Lennart	.1.14	P 53 Philips Lightin	L 25 Ig	# <u>r01-91</u>
Yseboodt, Lennart Comment Type ER Subclause numbering	Philips Lighting Comment Status A g after 30.12.2.1.18ab has gone	wrong.	Editorial		ubclause is not	in the draft (ent Status A (ergo, unmodified). 'local' version that		Managemer
SuggestedRemedy Use proper subclause	e numbering.			Suggested Note:		added text**,	, and XXremoved t	extXX.	
[] Recheck this comr	nent after implementing all Clau	se 30 changes		- Bring 30.12.3.1.14 into the draft - Change as BEHAVIOUR as follows:					
Response ACCEPT.	Response Status C				A GET attribute that returns a bit string indicating whether the remote system is a 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 bi indicates PSE or PD. **See also aLldpXdot3RemPowerTypeExt**;				
				Response ACCE	PT.	Respons	se Status C		

Pa **53** Li **25**

CI 30 SC 30.	l2.3.1.18a	P 53	L 38	# r01-13	Cl 30	SC 3	0.12.3.1	.18e	P 54	L 50	# r01-93
nslow, Peter		Ciena Corpora	ation		Yseboodt,	Lennart			Philips Lightir	g	
Comment Type E	R Comm	ent Status A		Editorial	Comment	Туре	т	Commen	t Status A		Manageme
inserted subclaus "30.12.3.1.18z1"	es "30.12.3.1.1 through "30.12.3		2.3.1.18ab13" sl	hould be numbered as	"For a PSE this attribute contains the value of the aPSEPowerPairsExt attribute (se 30.9.1.1.3), for a PD the contents of this attribute are undefined.;" 1. aPSEPowerPairsExt should be aPSEPowerPairs						Ext attribute (see
SuggestedRemedy	J				2. Wro	ong refere	ence				
,	ruction, change	"30.12.3.1.18z13"	to "30.12.3.1.18	z15" and also re-	Suggested	Remedy	•				
number subclaus through "30.12.3		8aa" through "30.12	2.3.1.18ab13" to	"30.12.3.1.18z1"				PairsExt with 30.9.1.1.4	aPSEPowerPai	rs	
Response	Respon	se Status C			Response			Response	Status C		
ACCEPT.					ACCE	PT.					
CI 30 SC 30.	2.3.1.18	P 53	L 38	# r01-92	C/ 30	SC 3	0.12.3.1.	.18k	P 56	L 17	# r01-370
rseboodt, Lennart		Philips Lightin	g		Stewart, H	eath			Analog Device	es Inc.	
Comment Type T	Comm	ent Status A		Management	Comment	Туре	TR	Commen	t Status A		Pres: Stewar
		PSEAllocatedPowe		y not in the draft) no	*** Co	mment s	ubmitted	I with the file	94876200003-s	tewart_03_1117	pdf attached ***
SuggestedRemedy										ould contain Clasumerations. Sim	ss enumerations but
		and change BEHA\						werClassExt		umerations. Sim	
				e received from the XXwas used by the	Suggested	Remedy	,				
remote system to	compute the po	ower value that it ha	as currently requ	uested from the PSEXX	See st	tewart_03	3_1117.p	odf for remed	dy.		
				ocated power value SE allocated power	Response			Response	Status C		
				erValue (30.12.2.1.18).;	ACCE	PT IN PF	RINCIPL	Е.			
Make similar cha aLldpXdot3RemF		ot3RemPSEAllocate werValueB.	edPowerValueA	and	adopt	changes	in http://	/www.ieee80	02.org/3/bt/public	/nov17/stewart_0	03_1117_final.pdf
·		se Status C			This re	esolution	is identi	cal to comm	ent #364.		
Response											

Pa **56** Li **17**

C/ 30 SC 30.12.3.1.18k Yseboodt, Lennart	P 56 Philips Lighting	L 17	# r01-94	C/ 33 SC 33.4.6 Darshan, Yair	P 68	L 31	# r01-403		
Comment Type T Com aLldpXdot3RemPowerClassEx - The enumerated values only Classes. - The descriptive text is incomp	ist PSE and PD whe	en they should	Pres: Stewart3	Comment Type T The coupled noise of SuggestedRemedy Change to 2mV	AES				
SuggestedRemedy - Replace the ENUMERATED * dualsig :: Dual-signature PI * class8 :: Class 8	,			Proposed Response REJECT. This comment was W	Response Status Z	ır.			
* class7 ::: Class 7 * class6 ::: Class 6 * class5 ::: Class 5				C/ 33 SC 33.4.9.1 RAN, ADEE	P 69 Intel Corporati	L 31 ion	# <u>r01-45</u>		
* class4 :: Class 4 * class3 :: Class 3 * class2 :: Class 2				Comment Type E Comment Status A Editor Per the style manual "In general text, isolated numbers less than 10 should be spelled out" Editor					
	VIOUR DEFINED AS			SuggestedRemedy Change "5" to "five".					
assigned Class by the remote 'dualsig' by the remote PSE.	-	iture PD, a rea	d-only value set to	Response ACCEPT IN PRINCIF	Response Status C PLE.				
the requested Class during Phy	sical Layer classificat	tion (see 145.2	nly value that indicates 2.7) by the remote PD. y value set to 'dualsig' by	The comment should refer to line 19.					
the remote PD."		_,	,	[Editor's note added a	fter comment resolution comp	leted:			
- Change the "BEHA aLldpXdot3RemDualSigPower aLldpXdot3RemDualSigPower			DOVE.	The Suggested Reme	edy was implemented on line 1	9.]			
Response Resp	onse Status C								
ACCEPT IN PRINCIPLE.									
adopt changes in http://www.ie	ee802.org/3/bt/public/	nov17/stewart	_03_1117_final.pdf						
This resolution is identical to co	omment #364.								

Pa **69** Li **31**

Cl 33 SC 33.4.9.2.1 Anslow, Peter	I P71 Ciena Corpora	L 42 ation	# r01-14	33.4	9.1b.1 Mi	ultiple distu		alien nea	ar-end crosstalk (F end crosstalk (PS		
Comment Type ER	Comment Status A		Editorial	Respons			Response Stat			,	
	and subclause numbering for	or 33.4.9.2.1 up t		-	EPT.						
	instruction for a new subclau	se, etc.).		CL 22	50.9	33.4.9.3.1		P 72	L 41	# [-	04.004
The base document ha 33.4.9.1.3 Return loss	S.			C/ 33 Mcclellar		53.4.9.3.1			L 41	# r	01-324
33.4.9.1.4 Work area o	r equipment cable Midspan F	PSE			,				liconductor		
33.4.9.2 Midspan signa				Commen		E	Comment Stat				Editoria
33.4.9.2.1 Alternative A	A Midspan PSE signal path tra	ansfer function		Table	e 33-20b h	has a singl	le entry. No table	e is require	ed. It can be char	nged to an e	quation.
	nd the intent of the draft, it ap	pears to be to c	reate:	Suggeste	edRemedy	/					
33.4.9.2.1 Maximum lin 33.4.9.2.2 Maximum lin 33.4.9.3 Coupling para	PSE [changed subclause re- ik delay [new subclause] ik delay skew [new subclause meters between link segmen	e] ts [new subclaus	;e]	20b t Do th Char	o equation ne same fo	n 33-19a or Table 3 33-20c int	3-20c.	-	e references in th e references in th		
	urber power sum alien near-e	end crosstalk (PS	SANEXT) loss [new	Respons			Response Stat	1s C			
subclause] 33.4.9.3.2 Multiple diste subclause]	urber power sum alien far-end	d crosstalk (PSA	FEXT) loss [new		EPT.			1 3 C			
33.4.9.4 Midspan signa	al path requirements [re-numb			CI 33	SC 3	33.4.9.3.2		₽72	L 54	# r	01-95
33.4.9.4.1 Alternative A	Midspan PSE signal path tra	ansfer function [r	re-numbered subclause]	Ysebood	t, Lennart		Ph	ilips Light	ing		
Assuming that this is co	orrect, then a scheme in line	with usual 802.3	re-numbering rules	Commen	t Type	т	Comment Stat	us A			Editorial
33.4.9.1a.1 Maximum I 33.4.9.1a.2 Maximum I 33.4.9.1b Coupling par 33.4.9.1b.1 Multiple dis subclause]	[changed subclause] n PSE [changed subclause ra ink delay [new subclause] ink delay skew [new subclaus ameters between link segme turber power sum alien near- sturber power sum alien far-ei	se] nts [new subclau end crosstalk (P	use] PSANEXT) loss [new	devid For 5 value For 1 the v	es shall n GBASE-T s determi 0GBASE alues dete should pr	neet the va T capable ined by Ta -T capable ermined by	alues determined midspans, PSAF able 33-20b from	by Table EXT loss 1 MHz to FEXT los rom 1 MH	s for Midspan PS	1Hz to 100 M devices sh	/Hz. all meet the
subclause] 33.4.9.2 Midspan signa	al path requirements [unaltere	ed subclause]	, -	Suggeste	- edRemedy		Table 33-20c. (3	(x)			
SuggestedRemedy				Respons	0	00 200 10	Response State	,			
On page 71, line 21, ch	nange the editing instruction text of 33.4.9.1.4 and re-numb		as follows:"			RINCIPLE	•				
On page 71, line 42, ch "Insert 33.4.9.1a.1, 33	nange the editing instruction t .4.9.1a.2, and 33.4.9.1b (inclumove the "change" editing in gs to: n PSE ink delay	o: uding its subclau		The	able will b	become ec	quation 33-19b b	y commei	nt 324. Change r	eference ac	cordingly.
TYPE: TR/technical require	d ER/editorial required GR/g	• •		0	ed U/unsa	atisfied Z/	/withdrawn	Pa 7 Li 5			ge 21 of 130 1/2017 3:17:

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

Page 21 of 130 12/1/2017 3:17:47 PM

CI 33 SC Yseboodt, Lenna	C 33.4.9.3.2 art	P 73 Philips Lightir	L 3 ng	# r01-96	C/ 33 Anslow, Pete	SC 33.8.2.2 er		P 74 iena Corpora	L 8 ation	# r01-15
Comment Type "from 1 MHz	E Cor z to 500 MHz.Calc	mment Status A		Editorial	Comment Ty "IEEE S	-	Comment Sta should be "IEEE"		-201x"	Editoria
Missing space SuggestedReme					SuggestedR Change	2	2.3-201x" to "IEEE	E Std 802.3b	t-201x"	
Add space.	July				Response	_	Response Sta	tus C		
Response ACCEPT.	Res	ponse Status C			ACCEP ⁻	F. SC 79.3.2		P80	L 14	# r01-98
	33.6.3.3	P 73	L 19	# r01-97	Yseboodt, Le		Р	hilips Lightin		# r01-98
Yseboodt, Lenna		Philips Lightir	-		Comment Ty	vpe E	Comment Sta	atus A		Editoria
Comment Type	TR Cor	mment Status A	-	DLL			ontinue to use the p/drawing power to			fields shown in Figure PI)."
	ed power value fie	he permitted value rai elds ranged 1 to 255.	-	equested power and			n of PI in Clause	79. Refer to	definitions.	
By mistake, The value of In 802.3bt w signature po	f zero is undefined ve are changing C ower negotiation.	d in DLL. lause 79 to permit val	ue zero, this is r	required to support dual- 3.3 makes zero a legal		to: entities may co or to supplying	ontinue to use the J/drawing power to			fields shown in Figure PI), as defined in
By mistake, The value of In 802.3bt w signature po However tha value for leg Since this is The propose	f zero is undefined we are changing C ower negotiation. at, in combination gacy devices. s undefined, we me ed solution is to re	d in DLL. lause 79 to permit val with the current value ust prevent this. estrict the value range	ue zero, this is r ranges in 33.6. in 33.6.3.3.	3.3 makes zero a legal	Change "Power e 79-3 prio	to: entities may co or to supplying "		o/from the Po		
By mistake, The value of In 802.3bt w signature po However tha value for leg Since this is The propose In summary,	f zero is undefined we are changing C ower negotiation. at, in combination gacy devices. a undefined, we me ed solution is to re we are moving a	d in DLL. lause 79 to permit val with the current value ust prevent this.	ue zero, this is r ranges in 33.6. in 33.6.3.3.	3.3 makes zero a legal	Change "Power e 79-3 pric 1.4.337. Response	to: entities may co or to supplying "	/drawing power to	o/from the Po		
By mistake, The value of In 802.3bt w signature po However tha value for leg Since this is The propose In summary, identical per	f zero is undefined we are changing C ower negotiation. at, in combination gacy devices. a undefined, we mi ed solution is to re , we are moving a rmitted value rang	d in DLL. lause 79 to permit value with the current value ust prevent this. strict the value range restriction from Claus e for legacy devices.	ue zero, this is r ranges in 33.6. in 33.6.3.3.	3.3 makes zero a legal	Change "Power e 79-3 pric 1.4.337. <i>Response</i> ACCEP	to: entities may co or to supplying " T. SC 79.3.2	/drawing power to	o/from the Po	bwer Interface (I	PI), as defined in
By mistake, The value of In 802.3bt w signature po However tha value for leg Since this is The propose In summary, identical per	f zero is undefined we are changing C ower negotiation. at, in combination gacy devices. a undefined, we me ed solution is to re , we are moving a rmitted value rang g MR has been file	d in DLL. lause 79 to permit val with the current value ust prevent this. estrict the value range restriction from Claus	ue zero, this is r ranges in 33.6. in 33.6.3.3.	3.3 makes zero a legal	Change "Power of 79-3 prior 1.4.337. <i>Response</i> ACCEP <i>CI</i> 79	to: entities may co pr to supplying T. SC 79.3.2 ennart	/drawing power to	b/from the Po tus C P80 hilips Lightin	bwer Interface (I	PI), as defined in
By mistake, The value of In 802.3bt w signature po However tha value for leg Since this is The propose In summary, identical per A supporting SuggestedReme In subclause	f zero is undefined we are changing C ower negotiation. at, in combination gacy devices. a undefined, we mu ed solution is to re we are moving a rmitted value rang g MR has been file edy e 33.6.3.3 (variabl	d in DLL. lause 79 to permit value with the current value ust prevent this. restrict the value range restriction from Claus e for legacy devices. ed for this comment. es, DLL classification)	ue zero, this is r ranges in 33.6. in 33.6.3.3. se 79 to 33.6.3.3), change the	3.3 makes zero a legal	Change "Power e 79-3 prio 1.4.337. Response ACCEP" C/ 79 Yseboodt, Le Comment Ty Figure 7	to: entities may co pr to supplying T. SC 79.3.2 ennart <i>ype</i> ER 9-3 shows a "	g/drawing power to <i>Response Sta</i> P	b/from the Po tus C P80 hilips Lightin atus A	bwer Interface (I	PI), as defined in # <u>r01-99</u>
By mistake, The value of In 802.3bt w signature po However tha value for leg Since this is The propose In summary, identical per A supporting SuggestedReme In subclause "Values:0 th - MirroredPD	f zero is undefined we are changing C ower negotiation. at, in combination gacy devices. a undefined, we mi- ed solution is to re- the solution is to re- solution is to re- the solution is to re- solution is to re- so	d in DLL. lause 79 to permit value with the current value ust prevent this. strict the value range restriction from Claus e for legacy devices. ed for this comment. es, DLL classification) ulues 1 through 255" for rValue	ue zero, this is r ranges in 33.6. in 33.6.3.3. se 79 to 33.6.3.3), change the	3.3 makes zero a legal	Change "Power e 79-3 prid 1.4.337. <i>Response</i> ACCEP" <i>Cl</i> 79 Yseboodt, Le <i>Comment Ty</i> Figure 7 Field na	to: entities may co pr to supplying T. SC 79.3.2 ennart <i>ype</i> ER 9-3 shows a "	g/drawing power to Response Sta P Comment Sta Power down" field t all over Clause 7	b/from the Po tus C P80 hilips Lightin atus A	bwer Interface (I	PI), as defined in # <u>r01-99</u>
By mistake, The value of In 802.3bt w signature po However tha value for leg Since this is The propose In summary, identical per A supporting SuggestedReme In subclause "Values:0 th - MirroredPE - MirroredPS	f zero is undefined we are changing C ower negotiation. at, in combination gacy devices. a undefined, we mi ed solution is to re , we are moving a rmitted value rang g MR has been file edy e 33.6.3.3 (variabl prough 255" to "Va DRequestedPower SEAllocatedPower	d in DLL. lause 79 to permit value with the current value ust prevent this. strict the value range restriction from Claus e for legacy devices. ed for this comment. es, DLL classification) lues 1 through 255" for rValue	ue zero, this is r ranges in 33.6. in 33.6.3.3. se 79 to 33.6.3.3), change the	3.3 makes zero a legal	Change "Power e 79-3 prid 1.4.337. <i>Response</i> ACCEP" <i>Cl</i> 79 Yseboodt, Le <i>Comment Ty</i> Figure 7 Field na	to: entities may co or to supplying " SC 79.3.2 ennart <i>ope</i> ER 9-3 shows a " me is different all by "Power	g/drawing power to Response Sta P Comment Sta Power down" field t all over Clause 7	b/from the Po tus C P80 hilips Lightin atus A	bwer Interface (I	PI), as defined in # <u>r01-99</u>
By mistake, The value of In 802.3bt w signature po However tha value for leg Since this is The propose In summary, identical per A supporting SuggestedReme In subclause "Values:0 th - MirroredPE - MirroredPS - PDReques - PDReques - PSEAlloca	f zero is undefined we are changing C ower negotiation. at, in combination gacy devices. a undefined, we mi ed solution is to re , we are moving a rmitted value rang g MR has been file edy e 33.6.3.3 (variabl irrough 255" to "Va DRequestedPower SEAllocatedPower stedPowerValueEd	d in DLL. lause 79 to permit value with the current value ust prevent this. restrict the value range restriction from Claus e for legacy devices. ed for this comment. es, DLL classification) alues 1 through 255" for Value Value cho here change to "0 through 250"	ue zero, this is r ranges in 33.6. in 33.6.3.3. se 79 to 33.6.3.3), change the or the following:	3.3 makes zero a legal 3, the net result is an	Change "Power e 79-3 prio 1.4.337. Response ACCEP" C/ 79 Yseboodt, Le Comment Ty Figure 7 Field na Replace SuggestedR - page 8 - page 8	to: entities may construction or to supplying T. SC 79.3.2 ennart <i>ype</i> ER 9-3 shows a " me is different all by "Power <i>emedy</i> 9, line 41: Cha 9, line 42: Cha	g/drawing power to Response Sta P Comment Sta Power down" field t all over Clause 7	b/from the Po tus C P80 hilips Lightin atus A I. '9.	<i>L</i> 36 <i>down</i> " "Power down re	PI), as defined in # <u>r01-99</u> <i>Editoria</i> .
By mistake, The value of In 802.3bt w signature po However tha value for leg Since this is The propose In summary, identical per A supporting SuggestedReme In subclause "Values:0 th - MirroredPE - MirroredPS - PDReques - PDReques - PSEAlloca	f zero is undefined we are changing C ower negotiation. at, in combination gacy devices. a undefined, we mi- ed solution is to re- t, we are moving a rmitted value rang g MR has been file edy e 33.6.3.3 (variable trough 255" to "Va DRequestedPower SEAllocatedPower stedPowerValue (heredPowerValue tedPowerValue for the the the the the the the the the the	d in DLL. lause 79 to permit value with the current value ust prevent this. restrict the value range restriction from Claus e for legacy devices. ed for this comment. es, DLL classification) alues 1 through 255" for Value Value cho here change to "0 through 250"	ue zero, this is r ranges in 33.6. in 33.6.3.3. se 79 to 33.6.3.3), change the or the following:	3.3 makes zero a legal 3, the net result is an	Change "Power e 79-3 prio 1.4.337. Response ACCEP" C/ 79 Yseboodt, Le Comment Ty Figure 7 Field na Replace SuggestedR - page 8 - page 8	to: entities may construction or to supplying T. SC 79.3.2 ennart <i>ype</i> ER 9-3 shows a " me is different all by "Power <i>emedy</i> 9, line 41: Cha 9, line 42: Cha	g/drawing power to Response Sta P Comment Sta Power down" field t all over Clause 7 down" ange subclause tit ange "request pow	b/from the Po tus C P80 hilips Lightin atus A I. 9. tle to "Power ver down" to Power down	<i>L</i> 36 <i>down</i> " "Power down re	PI), as defined in # <u>r01-99</u> <i>Editoria</i> .

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Pa 80

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 Li
 36

 SORT ORDER: Page, Line
 Sort Order
 S

C/ 79 SC 79.3.2 RAN, ADEE	P 80 Intel Corporation	L 51	# r01-46	C/ 79 SC 79.3.2.1 Yseboodt, Lennart	P 81 Philips Lighting	L 8 # r01-102
	Comment Status A the LLDP frame (see 79.1.1.4). Li r Via MDI TLV that may include the		<i>LLDP</i> s not have extension	Comment Type E Table 79-3, unlike eve The Title of the table	Comment Status A ery other Table in Clause 79, lists the does not end in 'field'.	Editorial e bits starting with the LSB.
SuggestedRemedy				SuggestedRemedy		
Change "in transmit Response	ted LLDPDU's" to "in the transmitte Response Status C	ed Power Vi	a MDI TLV".	 Reverse the order o Append 'field' to Tab 	f the rows in Table 79-3 ole title	
ACCEPT.				Response ACCEPT.	Response Status C	
C/ 79 SC 79.3.2 Yseboodt, Lennart	Philips Lighting	L 1	# <u>r01-100</u>	C/ 79 SC 79.3.2.2 RAN, ADEE	P 82 Intel Corporation	L 9 # r <u>01-47</u>
Comment Type E Editor to consistent Eg. The 'Port class' SuggestedRemedy	Comment Status A y put single quotes around field na field.	mes.	Editorial	Comment Type E Number disagreemer SuggestedRemedy	Comment Status A at: "A Type 3 or Type 4 PSEs that is"	Editorial
To implement throu	ghout Clause 79.			Change "PSEs" to "P	SE".	
Response ACCEPT.	Response Status C			Response ACCEPT.	Response Status C	
<i>Cl</i> 79 <i>SC</i> 79.3.2 Yseboodt, Lennart	.1 P81 Philips Lighting	L 6	# r01-101	C/ 79 SC 79.3.2.2 RAN, ADEE	P82 Intel Corporation	L 11 # [r01-48
Comment Type E Table 79-3 "MDI po title which is "MDI p	Comment Status A wer capabilities/status" does match ower support".	n with Figure	<i>Editorial</i> 79-3 nor with subclause	<i>Comment Type</i> E It isn't clear what "car (Style manual: "can e	Comment Status A n indicate" means here. quals is able to")	Editorial
SuggestedRemedy Change Table title t	o "MDI power support field".			SuggestedRemedy Change "can indicate	" to "indicates".	
Response ACCEPT.	Response Status C			Response ACCEPT.	Response Status C	

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Page, Line Pa **82** Li **11**

CI 79	SC 79.3.2.3	P 82	L 32	# r01-103	C/ 79	SC 7	9.3.2.4	P 83	L3	# r01-104
Yseboodt,	Lennart	Philips Lightin	g		Yseboodt,	Lennart		Philips Lighting		
Comment	Туре Е	Comment Status A		Editorial	Comment	Туре	Е	Comment Status A		Editoria
Table same	79-3b based on	transmitted by a PSE shall c aPSEPowerClassification. Cla . Class 5 and above is comm	ass 4 and abov	e is indicated with the	priorit Quote	y defined s around	in Table fieldnam	/priority field shall contain a bit- 79-4 and is reported for the de he and capitalize first letter of fig	vice general	
Capita	lize field name.				Suggested			o/origritud field aball contain a bi	t man of the	nower turns, course and
Suggested	lRemedy							e/priority' field shall contain a bi 79-4 and is reported for the de		
Table same	79-3b based on	transmitted by a PSE shall c aPSEPowerClassification. Cla . Class 5 and above is comm	ass 4 and abov	e is indicated with the	Response ACCE			Response Status C		
Response		Response Status C			C/ 79	SC 7	9.3.2.4	P 83	L 12	# r01-105
ACCE					Yseboodt,	Lennart		Philips Lighting		
					Comment	Туре	E	Comment Status A		Editoria
CI 79	SC 79.3.2.4	P83	L3	# r01-16	Name	s in colur	mn "Func	ction" should all start with a cap	ital letter.	
Anslow, Pe	eter	Ciena Corpora	ation		Suggestee	dRemedy				
Comment	51	Comment Status A		Editorial	Chang	ge names	s by capit	alize first letter and update usa	ge in Clause	e 79.
	diting instruction nged) should not	only refers to Table 79-4, so be shown.	the text of 79.3	.2.4 (which is	Response ACCE			Response Status C		
Suggested	lRemedy				ACCE	PT.				
delete	the text in 79.3.2	2.4			CI 79	SC 7	9.3.2.5	P83	L 50	# <u>r01-17</u>
Response		Response Status W			Anslow, P	eter		Ciena Corporatio	n	
	PT IN PRINCIPL				Comment "33.6.		E Ild be a c	Comment Status A cross-reference here and in 79.3	3.2.6	Editoria
		e/priority' field shall contain a 79-4 and is reported for the			Suggester					
This re	esolution is identi	cal to comment #104.					a cross	-reference here and in 79.3.2.6	1	
					Response	9		Response Status C		

Pa **83** Li **50**

C/ 79 SC 79.3.2.5	P83	L 52	# r01-18	C/ 79	SC 79.3.2.	6c P85	L 44	# r01-107
Anslow, Peter	Ciena Corpora	tion		Yseboodt,		Philips Ligh	nting	
Comment Type E	Comment Status A		Editorial	Comment	Туре Е	Comment Status A		Editoria
covered by the editing	"Delete Equation 79-1" is not instruction: "Change 79.3.2.5 struction: "Delete Equation 79	as follows:".	5 ,	PD po		ield shall contain the PSE's b ned in Table 79-6c, and is rep e.		
SuggestedRemedy Delete both editing inst	ructions			Suggested Chang				
Response ACCEPT.	Response Status C			"The 'F	ower status' f	ield shall contain the PSE's t ned in Table 79-6c, and is rep <i>Response Status</i> C		
C/ 79 SC 79.3.2.5	P 84	L 14	# r01-19	ACCE	PT.			
Anslow, Peter	Ciena Corpora	tion		CI 79	SC 79.3.2.	6c P 85	L 45	# <u>r01-21</u>
Comment Type E	Comment Status A		Editorial	Anslow, Pe	ter	Ciena Corp	oration	
C C	33.3.7.2" without the underline	e font.			e the table to	be Table 79-6e and renumbe Table 79-6g to be Table 79- <i>Response Status</i> C		
Response ACCEPT.	Response Status C			ACCE	PT.			
C/ 79 SC 79.3.2.61	P85	L1	# r01-106	<i>Cl</i> 79 Anslow, Pe	SC 79.3.2 .	6c.1 P85 Ciena Corp	L 52	# r01-20
Yseboodt, Lennart	Philips Lighting	 J		Comment		Comment Status A		Editoria
Comment Type E	Comment Status A		Editorial			allocated power value for Alt	ernative A field" ar	
"Table 79-6aPD requi Figure 79-3. Strike 'for'	ested power value for Mode A	field" does no	t match with field title in	power	value for Alter	inative B field" as specified in in Table 79-6c and Table 79	Table 79-6a and	
SuggestedRemedy				Suggested	Remedy			
	aPD requested power value	Mode A field"		Chang	e "in Table 79	-6a and Table 79-6b" to "in T	able 79-6c and Ta	ble 79-6d"
And do the same for M				Response		Response Status C		
Response	Response Status C			ACCE	PT.			
ACCEPT.								

Pa **85** Li **52**

Cl 79 SC 79.3.2.6c Skinner, John	P86	L 10	# r01-397	<i>CI</i> 79 Yseboodt, L	SC 79.3.2.6c.4 ennart	Р 87 Philips Lightir	L 15	# r01-110
	Comment Status A 13:12 in Table 79-6c-Power si th the field name in 79.3.2.6c.:					ment Status A I indicates a PD the l	-	<i>Editoria</i> oower Class ext Mode A'
SuggestedRemedy Correct text for bits 13:	12 in in Table 79-6c-Power sta ame for what this field indicate <i>Response Status</i> C	itus to read "P		the dua When th signatur shall be	-signature PD for Mode he 'power type ext' field e PD, the 'dual-signatu set to the PSEs assign mes should start with o	A during Physical La indicates a PSE and re power Class ext M ned Class for Alternat	the PSE is con lode A' field	
Cl 79 SC 79.3.2.6c Yseboodt, Lennart Comment Type E Table 79-6c, bit 13:12 ' SuggestedRemedy Capitalize. Response ACCEPT.	.1 P86 Philips Lighting Comment Status A 'powered single-signature PD' Response Status C		# <u>r01-108</u> Editorial	Change "When t A' field s the dua When th signatur	to: he 'Power Type ext' fie shall be set to the reque -signature PD for Mode ne 'Power Type ext' fiel e PD, the 'Dual-signatu set to the PSEs assigr <i>Resp</i>	ested Class of A during Physical La d indicates a PSE and are power Class ext M	ayer Classificati d the PSE is co lode A' field	
C/ 79 SC 79.3.2.6c /seboodt, Lennart	.1 P86 Philips Lighting	L 50	# r01-109	C/ 79 Yseboodt, L Comment T		P 87 Philips Lightir ment Status A	L 19 ng	# <u>r01-111</u>
This class is not reques SuggestedRemedy	Comment Status A stus field, item 'Power Class ex sted or assigned by Type 3/4 o		LLDP alue for Class 0.	"PSEs o The PS	connected to a Type 1, E is not always able to also the open issue of	Type 2 or single-sign distinguish the Type	of the PD (for C	s field to value 7."
Replace by "0 0 0 0 = F Response ACCEPT IN PRINCIPL Replace by "0 0 0 0 = F	Response Status C E.			SuggestedF "PSEs o	o should be a requirem Remedy connected to a single-si hall set this field to valu	gnature PD, or Type	3 PSEs that op	erate only in 2-pair
Type 1 and Type 2 PD Class of the PD during	ange: ext' field indicates a PD for a s the 'power Class ext' field sha Physical Layer Classification	Il be set to the	requested	Response	same for 79.3.2.6c.5 <i>Resp</i> T IN PRINCIPLE.	onse Status C		
	is PD the 'power Type ext field PD during Physical Layer Cla				ot connected to a dual- t this field to value 7.	signature PD, or PSE	s that operate o	only in 2-pair mode,
			d T/technical E/editorial G/c			Pa 87	_	Page 26 of 130

TYPE: TR/technical required ER/editorial required GR/gene	ral required T/technical E/editorial G/general	Pa 87	Page 26 of 130
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	Li 19	12/1/2017 3:17:47 PM
SORT ORDER: Page, Line			

C/ 79 SC 79.3.2.6	c.5 P 87	L 24	# r01-112	C/ 79	SC 79.3.2.6d	P 87	L 33	# r01-114
'seboodt, Lennart	Philips Lighting	9		Yseboodt, L	ennart	Philips Lighti	ng	
Comment Type E	Comment Status A		Editorial	Comment T	ype E	Comment Status A		Editori
field shall be set to the of the dual-signature F 145.3.6. When the 'power type signature PD, the 'dua	e ext' field indicates a PD the 'c e requested Class PD for Mode B during Physical ext' field indciates a PSE and Il-signature power Class ext M Es assigned Class for Alternati	Layer Classific the PSE is cor ode B' field	cation as defined in nected to a dual-	and PD defined 'system field tra	Load in Table 79-6d a setup' nsmitted by a Pa	d shall contain the device bi and is reported for the devic SE is undefined." rt with capital first letter.	·	
Field names should st	art with capital first letter.			SuggestedF	Remedy			
SuggestedRemedy				Change "The 'S		d shall contain the device b	it-map of the Po	wer Type ext, PD 4PID,
B' field shall be set to of the dual-signature F 145.3.6. When the 'Power Type signature PD, the 'Dua	e ext' field indicates a PD the the requested Class PD for Mode B during Physical e ext' field indciates a PSE and al-signature power Class ext M Es assigned Class for Alternati	Layer Classific I the PSE is co ode B' field	cation as defined in nnected to a dual-	'System	in Table 79-6d and setup' In setup' Insmitted by a Pa	and is reported for the devic SE is undefined." <i>Response Status</i> C	e generating the	e TLV. The value of the
Response	Response Status C							
ACCEPT.								
C/ 79 SC 79.3.2.60	d P87 Philips Lighting	L 33	# r01-115					
	Comment Status A to '0' when the power type is F be ext' is Type 3 PD or Type 4		<i>Editorial</i> shall be set to					
Field names should st	art with capital first letter.							
	to '0' when the power type is F rpe ext' is Type 3 PD or Type 4		shall be set to					
Response ACCEPT.	Response Status C							

Pa **87** Li **33**

Cl 79 SC 79.3.2.6 Yseboodt, Lennart	c.6 P 87 Philips Lightir	L 33	# r01-113	C/ 79 SC 79 RAN, ADEE	9.3.2.6c.1	P 87 Intel Corpora	L 34 tion	# r01-49
Comment Type E "When the 'power typ Type 2 PD the 'power Class ext' field Classification as defined in 145.3.6. W the PSEs assigned Class as defined in 14 PDs set the 'power	Philips Lightin Comment Status A e ext' field indicates a PD for a shall be set to the requested nen the power type is PSE, th 5.2.7. PSEs connected to a d power class indicated by the to	a single-signatu Class of the PE e 'power Class Iual-signature P	D during Physical Layer ext' field shall be set to PD and dual-signature	Comment Type Inconsistent qu quotes. Compared to 79 Also in 79.3.2.6 SuggestedRemedy Change double	otes (here double, 9.3.2.6: The 'PSE a 5c.2 and perhaps of	ant Status A elsewhere single) allocated power va ther places.), and "field" sho alue' field	uld not be within the of the quotes, in
and 'power Class ext Field names should s SuggestedRemedy	Mode B' field." art with capital first letter.			Response	,	this clause. se Status C		
Change to: "When the 'Power Ty Type 2 PD the	be ext' field indicates a PD for	0 0	21	ACCEPT IN PF Comment shou	INCIPLE.	line 49.		
Classification as	shall be set to the requested nen the power type is PSE, th		0, ,	•	dded after commer Remedy was imple			
Class as defined in 14 PDs set the 'Power	5.2.7. PSEs connected to a d power class indicated by the to Mode B' field."	0	Ũ			Sinching of page		
Response	Response Status C							

ACCEPT.

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

Pa **87** Li **34**

Cl 79 SC 79.3.2.6d.2 P87 L 50 # r01-398 Skinner, John	Cl 79 SC 79.3.2.6d.2 P 87 L 50 # [r01-116] Yseboodt, Lennart Philips Lighting
Comment Type E Comment Status A	Comment Type TR Comment Status A LLDP
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.	We have moved the PD 4PID bit from the System setup field to Power type/source/priority field, but failed to move the descriptive subclause with it. Also the text in that subclause needs to be updated.
SuggestedRemedy	Note that we no longer need a 'shall' for Type 3/4 PDs, because that is now handled by the DLL power control state diagrams.
The clause should be renumbered 79.3.2.4.2 "PD 4PID", and should be located after line	SuggestedRemedy
44 on page 83.	- Delete subclause 79.3.2.6d.2
Response Response Status C	- Add new subclause 79.3.2.60.2
ACCEPT IN PRINCIPLE.	
- Delete subclause 79.3.2.6d.2 - Add new subclause under 79.3.2.4 title "PD 4PID" with content:	This field shall be set according to Table 79-4 when the power type is PD to indicate wether the PD support powering of both Modes simultaneously. This field shall be set to '0' when the power type is PSE.
This field shall be set according to Table 79-4 when the power type is PD to indicate	Response Response Status C
whether the PD support powering of both Modes simultaneously. This field shall be set to '0' when the power type is PSE.	ACCEPT IN PRINCIPLE.
This resolution is identical to comment #116.	- Delete subclause 79.3.2.6d.2 - Add new subclause under 79.3.2.4 title "PD 4PID" with content:
	This field shall be set according to Table 79-4 when the power type is PD to indicate whether the PD support powering of both Modes simultaneously. This field shall be set to '0' when the power type is PSE.

Pa **87** Li **50**

/seboodt, Lennart Philips Lighting			Ir)4
Comment Type T Comment Status A In Table 79-6d the Power Type ext field describes the Type of the PSE or PD. This still includes entries for Type 1 / Type 2, which no longer makes sense give are barred from sending the T3/4 extension fields. SuggestedRemedy - Reduce field to 3 bits with following content: Comment Status A		In the te the powe field sha of Mode	pe T ment is mark at for 79.3.2.6 er type is PD. Il mean greate A and any on	d.3 PD Load: "T Electrically isola er than or equal e connection or	This field shall ated for this bit to 50 k ohm ro Mode B, whe	esistance betwe	g to Table 79-6d een any one conn ing at least VPort power type is PS	ection _PSE-
 111 Reserved / Ignore 110 Type 4 dual-signature PD 101 Type 4 single-signature PD 011 Type 3 dual-signature PD 010 Type 3 single-signature PD 001 Type 4 PSE 000 Type 3 PSE Move the reserved bit on bit position 1 to the top (which now has bits 7:4 as F 	Reserved)	have few 1) The p B" is n is for the classifica 2) The is 500K) ar Regardir	v issues: art "betwee ot clear and m load during p ation states. colation during nd is required ng the positive	en any one conr nay lead to over ower up and po detection of du between the ne pairs, this requ	nection of Moc design. The cr wer on states al-signature P gative connec irement is opt	le A and any on urrent isolation r and not during D need to be hi tions of Mode A	e connection on N requirement of 50 detection and gher than 50K (at and Mode B.	Vode Kohm
- Update Clause 30 enumeration to match		SuggestedR	emedy			·		
Response Response Status C ACCEPT.		Electrica between	Ily isolated for any one conr	this bit field sh ection of Mode	all mean great A and any on	ter than or equa e connection on	a the power type is al to 50 k ohm resi a Mode B, when . This field shall b	istance
Cl 79 SC 79.3.2.6d P 88 L 1 # ('seboodt, Lennart Philips Lighting Comment Type E Comment Status A "Power type ext" we should capitalize Type to be consistent with the rest of the SuggestedRemedy Rename field to "Power Type ext"	r01-117 <i>Editorial</i> e draft.	to 0 whe To: "This fie isolated any one power or detectior	n the power ty d shall be se for this bit field connection of a states and 5 and classific	rpe is PSE." t according to T d shall mean gro Mode A and ar 00K between th ation states, wh	able 79-6d wh eater than or e ny one connec ne negative pa nen measured	en the power ty equal to 50 k ohr tion on Mode B irs of Mode B du using at least V	pe is PD. Electric m resistance betw in the powerup a uring connection of 'Port_PSE-2P min ower type is PSE	ally veen nd check, nimum
Response Response Status C		Response		Response S	tatus C			
ACCEPT.			IN PRINCIP					
			anges shown w.ieee802.org		/17/darshan_(07_0117_final.pd	df	
		[Editor's	note added at	iter comment re	solution comp	leted:		
				ile name. The i g/3/bt/public/nov)7_1117_final.pc	df]	

Pa **88** Li **32**

C/ 79 SC 79.3.2.6f.1 P 89 L 25 # [r01-119 C/ 79 SC 79.3.2.	6f.2 P 89 L 30 # r01-121
Yseboodt, Lennart Philips Lighting Yseboodt, Lennart	Philips Lighting
Comment Type E Comment Status A Editorial Comment Type E	Comment Status A Editorial
"When the power type is PSE this field shall be set to indicate if the PSE supports"The 'request powerAutoclass over DLLlonger requires poweraccording to Table 79-6f. When the power type is PD this field shall be set to 0."Incorrect field name	down' field shall be set as defined in Table 79-6g. by a PD that no er from the PI."
Field names should start with capital first letter. SuggestedRemedy	
Change to:	weet field shall be ask as defined in Table 70.0m by a DD that as
Change to:	quest' field shall be set as defined in Table 79-6g. by a PD that no er from the PI."
"When the Power Type is PSE this field shall be set to indicate if the PSE supports Response Autoclass over DLL according to Table 79-6f. When the Power Type is PD this field shall be set to 0." ACCEPT.	Response Status C
Response Response Status C C 79 SC 79.3.8.	1 P92 L1 # r01-22
ACCEPT. Anslow, Peter	Ciena Corporation
Cl 79SC 79.3.2.6f.2P 89L 30# r01-120Comment TypeEYseboodt, LennartPhilips LightingTable 79-7b is missi	Comment Status A Editorial ng the table continuation variable
	ne end of table title on first page. Then click on the Variables Tab and lation" variable. This will add the (continued) on subsequent pages. Response Status C
Field names should start with capital first letter. Cl 79 SC 79.3.8.	1 P92 L26 # r01-122
SuggestedRemedy Yseboodt, Lennart	Philips Lighting
Change to: "When the Power Type is PSE this field shall be set to indicate that the PSE has concluded The energy measure the Autoclass measurement.	Comment Status A Editorial ment field in Table 79-7b does not contain a 'valid values' range.
This happens after a request for Autoclass is made by the PD using the "AutoclassSuggestedRemedyrequest" field defined in Table 79-6f.Add to 'Energy measurement'	surement': hrough 4294967295."
Response Response Status C Response ACCEPT. ACCEPT. ACCEPT.	Response Status C

Pa **92** Li **26**

CI 79 Yseboodt,	SC 79.3.8.2	P 92 Philips Lighting	L 33	# r01-123	C/ 79 Anslow, Pete	SC 79.5.3 er	Р 97 Сіела С	L 7 orporation	# r01-24
Comment		Comment Status A		Pres: Yseboodt1	Comment Ty		Comment Status A	orporation	Editorial
"The F electric define power balanc meani	PSE power price i city within the PS d in Table 79-7d. from any externa ce, into account. A ng of this field is i	ndex field shall contain a linea E. This is a 15 bit unsigned in The PSE shall set the value of I and internal resources, and the value of zero means that no mplementation dependent." ds to be both a linear index, b	teger in the ran of this field takir the relative sup power price ind	current value of ige 0 through 32767, as ing the availability of iply and demand dex is available. The	The edit where th SuggestedR	, ing instruction ie new rows ai <i>emedy</i> to: "Insert new		۲able in 79.5.3 as	as follows:" does not say
As cur	rently specified th	nis isn't terribly useful. We sho	ould come up w	rith a specification.	CI 79	SC 79.5.8	P 98	L 23	# r01-25
Suggested	lRemedy				Anslow, Pete	er	Ciena C	orporation	
Adopt	yseboodt_01_11	17_powerpriceindex.pdf			Comment Ty		Comment Status A		Editorial
Response		Response Status C					T6, "Table 79-4" should	be cross-referenc	es
ACCE	PT IN PRINCIPLI				SuggestedR	-			
	changes shown i					able 79-4" cro	ss-references In items P		
http://v	www.ieee802.org/	3/bt/public/nov17/yseboodt_0	1_1117_final.p	df	Response ACCEP	г	Response Status C		
79	SC 79.3.8.2	P 92	L 40	# r01-23					"
Anslow, Pe		Ciena Corporat	ION		Cl 79 Anslow, Pete	SC 79.5.8	P 99	L 38 orporation	# r01-26
Comment		Comment Status A Table 79-7d, but it should be	Table 70 7a	Editorial	Comment Ty		Comment Status A		Editorial
Suggested		Table 75-74, but it should be			,		omega>" should have a		Eutonar
00	le the table to be	Table 79-6c			SuggestedR	emedy	-		
Response		Response Status C			••	"K" to "k"			
ACCE	PT.				Response		Response Status C		
CI 79	SC 79.4.2	P 95	L13	# r01-124	ACCEP	Г.			
	-	Philips Lighting	-						
rseboodt,	Lennart	i impo Eigining							
		Comment Status A		Editorial					
Comment In Tab	Туре Е	Comment Status A	the variable "F						
Comment In Tab used ,	<i>Type</i> E le 79-9 and 79-10 this has been rer	Comment Status A	the variable "F						
Comment In Tab used , Suggested Chang	<i>Type</i> E le 79-9 and 79-10 this has been rer	Comment Status A) in the column "TLV variable" named.	the variable "F						
Comment In Tab used , Suggested Chang	<i>Type</i> E le 79-9 and 79-10 this has been rer <i>IRemedy</i> le variable name	Comment Status A) in the column "TLV variable" named.	the variable "F						

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

Li **38**

12/1/2017 3:17:47 PM

C/ 145 SC 145 P103 L1 # C/ 145 SC 145.1 P103 L15 # r01-125 Yseboodt, Lennart Bullock, Chris Cisco Systems, Inc. Philips Lighting Comment Type E Comment Status A Editorial Comment Type E Comment Status A We have inconsistent capitalization for "Physical Layer [C/c]lassification". Missing a serial comma. Add a comma after "Powered Device (PD)" SuggestedRemedy For 802.3-2015 SECTION2 Change: without capital c: 3 occurances "They are the power supply, a non-data entity which is called the Power Sourcing with capitcal C: 47 occurences Equipment (PSE), the powered load, another non-data entity which is called the Powered Device (PD) and the standards based, balanced, twisted-pair In our draft: cabling connecting the two." without capital c: 14 occurances with capitcal C: 47 occurences To: SugaestedRemedv "They are the power supply, a non-data entity which is called the Power Sourcing - Replace throughout the draft "Physical Laver Classification" with "Physical Laver Equipment (PSE), the powered load, another non-data entity which is called the Powered classification". Device (PD), and the standards based, balanced, twisted-pair cabling connecting the two." - Decapitalize "Classification" whereever it should not be capitalized (whole draft) Response Response Status C Response Response Status C ACCEPT. ACCEPT. C/ 145 SC 145.1 P103 L16 # SC 145.1 P103 C/ 145 19 # r01-126 Yseboodt, Lennart Philips Lighting Philips Lighting Yseboodt, Lennart Comment Type E Comment Status A Comment Type ER Comment Status A **F**ditorial "The cabling portion of the system is defined as the Link Section." "This clause defines the functional and electrical characteristics for providing an enhancement of the Power over Ethernet (PoE) system defined in Clause 33." No need for capitals in Link Section. SuggestedRemedy Comment i-43 (AIP) was lost due to adopting Thompson_01_0917.rtf. Makes it seem that Clause 145 is an 'add-on' to Clause 33. It isn't, it is a complete, Decapitalize. standalone PoE Clause. Response Response Status C SuggestedRemedy ACCEPT. Change to (remedy taken from response in i-43): "This clause defines the functional and electrical characteristics of an enhanced Power

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

over Ethernet (PoE) system. The original PoE system is defined in Clause 33."

Response Status C

Response

ACCEPT.

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

Pa 103 Li 16

r01-323

r01-127

Fditorial

Fditorial

C/ 145 SC 145.1 P103 L16 # r01-493	C/ 145 SC 145.1 P103 L19 # r01-32					
Thompson, Geoffrey Individual	Jones, Chad Cisco Systems, Inc.					
Comment Type E Comment Status R Editorial LATE COMMENT: Improve clarity of sentence.	Comment Type E Comment Status A Editoria. "The PSE is normally an element of the powering DTE but may, instead, be located within					
SuggestedRemedy Change text: 'The interface between each of the elements is called the Power Interface	the cabling portion of the system." This seems like a good spot to introduce the term Midspan which just pops up unintroduced a few pages later.					
(PI).' to: 'The interface between each of the power elements is called the Power Interface (PI).'	SuggestedRemedy Add this sentence to the end of the 2nd paragraph in 145.2: PSEs located within the cabling portion of the system are called Midspan PSEs, or simply Midspans.					
Response Response Status C REJECT.						
The suggested remedy only adds ambiguity. "The interface between each of the power elements" makes it sound like an interface between the PSE and the PD since those are the two elements hat use the word "power" in their description (the cabling does not appear	Response Response Status C ACCEPT IN PRINCIPLE.					
to be a "power element"). C/ 145 SC 145.1 P 103 L 17 # r01-494 Thompson, Geoffrey Individual	Add this sentence after sentence quoted in the comment (the sentence may be moved by other comments) in the 2nd paragraph in 145.2: PSEs located within the cabling portion of the system are called Midspan PSEs, or simply Midspans.					
Comment Type E Comment Status A Editorial LATE COMMENT: Improve clarity of text.	Also, capatizalize midspan in the following locations: P221 L45, L46, L48 P222, L12, L13, L16					
SuggestedRemedy						
Swap order of PD sentence and link section sentence.	[Editor's note added after comment resolution completed: Response asks to add text after second paragraph of 145.2, but the comment & quote is					
Response Response Status C	about 145.1. The text was placed in 145.1.]					
ACCEPT IN PRINCIPLE.	C/ 145 SC 145.1 P103 L 22 # r01-128					
Change:	Yseboodt, Lennart Philips Lighting					
The cabling portion of the system is defined as the Link Section. The interface between	Comment Type E Comment Status A Editoria					
each of the elements is called the Power Interface (PI). The PD is an element of 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,	Comment Type E Comment Status A Editorial "Those MAUs are defined Clause 14 and the PHYs defined in Clause 25, Clause 40, Clause 55, and Clause 126." Clause 14 and the PHYs defined in Clause 25, Clause 40, Clause 55, and Clause 126."					
each of the elements is called the Power Interface (PI). The PD is an element of 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.	"Those MAUs are defined Clause 14 and the PHYs defined in Clause 25, Clause 40,					
each of the elements is called the Power Interface (PI). The PD is an element of 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. To:	"Those MAUs are defined Clause 14 and the PHYs defined in Clause 25, Clause 40, Clause 55, and Clause 126."					
each of the elements is called the Power Interface (PI). The PD is an element of 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.	"Those MAUs are defined Clause 14 and the PHYs defined in Clause 25, Clause 40, Clause 55, and Clause 126." Not English.					
 each of the elements is called the Power Interface (PI). The PD is an element of 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. To: The cabling portion of the system is defined as the link section. 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 is defined as the link section. 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 	"Those MAUs are defined Clause 14 and the PHYs defined in Clause 25, Clause 40, Clause 55, and Clause 126." Not English. SuggestedRemedy Change as follows: "Those MAUs are defined **in** Clause 14 and the PHYs **are** defined in Clause 25,					

Pa **103** Li **22**

C/ 145 SC 145.1 Anslow, Peter	P 103 Ciena Corporation	L 22 n	# r01-27	C/ 145 Stover, Da		145.1	P 103 Analog Devi	L 40 ces Inc.	# r01-375		
Comment Type E	Comment Status A		Editorial	Comment	Туре	Е	Comment Status A		Editorial		
"Clause 14", "Clause 4	"A method for a PSE and the PD to which it is connected to dynamically negotiate and					ically negotiate and					
SuggestedRemedy					te powe		t the reader interpreting this	s as "the PD to w	hich it is not		
Make them all cross-re	ferences (and remove the charac	cter tag Externa	l)	conne	cted"?						
Response ACCEPT.	allocate" is redundant to "negotiate" (and incorrectthe PSE allocates power and/or the PSE requests power).										
AUGEFT.				Suggested	Remec	dy					
C/ 145 SC 145.1 Yseboodt, Lennart	P 103 Philips Lighting	L 24	# r01-129				d for a PSE and the PD to which it is connected to dynamically negotiate " to "A method for a PSE and a PD to dynamically negotiate power"				
Comment Type E	Comment Status A	·	Editorial	Response ACCE	PT IN F	PRINCIPLI	Response Status C E.				
used for data transmiss	11.2	ung une barrie g			locate p		a PSE and the PD to which A method for a connected				
Change to: "Power over Ethernet allows devices to supply/use power using the same generic cabling as is used for data transmission."					SC Lennar	145.1.3 t	P 105 Philips Light	L 31 ing	# r01-131		
Response	Response Status C			Comment	Туре	Е	Comment Status R		Editorial		
ACCEPT.							stem parameters. The Nor		ent per pair is derived		
C/ 145 SC 145.1	P103	L 32	# r01-130				the number of powered pa sense to swap the order of				
Yseboodt, Lennart	Philips Lighting	202	" 101-130	Suggested	-						
Comment Type E	Comment Status A		Editorial	00			ns 2 and 3 in Table 145-1.				
"Power over Ethernet is intended to provide a 10BASE-T, 100BASE-TX, 1000BASE-T, 2.5GBASE-T, 5GBASE-T, or 10GBASE-T device with a single cabling interface for both the data and power."					CT.		Response Status C				
Strike 'the' before data.							e of the recirculation. Con text change which does no				
SuggestedRemedy				propos	505 0 50		text enange which does no				
Strike 'the' before data.											
Response ACCEPT.	Response Status C										

Pa **105** Li **31**

C/ 145 SC 14 Stover, David	5.1.3	P 105 Analog Device	L 45	# r01-376	C/ 145 Yseboodt,	SC 145.1.3	P 106 Philips Lighti	L 28	# r01-132		
	T Corr	nment Status R	5 110.	PSE Types	Comment		Comment Status A	ng	Editorial		
 "For 2-pair systems that provide Class 4 power or less, two twisted pairs are required to source lcable" easily misinterpreted as though there is a minimum current requirement. Add "in order for", which matches related Icable statements elsewhere in this paragraph. SuggestedRemedy Change "For 2-pair systems that provide Class 4 power or less, two twisted pairs are required to source Icable" to "For 2-pair systems that provide Class 4 power or less, two twisted pairs are required to source Icable" to "For 2-pair systems that provide Class 4 power or less, two twisted pairs are required in order for the PSE to source Icable" Response Response Status C REJECT. 						TOPIC:SIGNATURE These comments fix inconsistencies in the word 'signature'. When referring to detection, we should talk about "PD detection signature". When referring to signature configuration, we should either say "single-signature PD, dual- signature PD, or PD signature configuration". The draft contains 12 instances of the ambiguous "PD signature". "When connected to a dual- signature PD, when operating in 2-pair mode, or when the PD signature has not yet been identified, V PSE is measured between any positive conductor of the pairset and any negative conductor of the corresponding pairset, for the given Alternative."					
Comment is ou	t of scope of the	e recirculation. Comm	ent is on uncha	anged text and	Suggested	Remedy					
Cl 145 SC 14 Stewart, Heath		P 106 P 106 Analog Device	L 18	al problem in the draft. # r01-334	signati positiv	ure **configuratio	dual- signature PD, when op on** not yet been identified, ' e pairset and any negative o e."	V PSE is measu	red between any		
Various phrase phrase contains Pairset DC loop	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. Pairset DC loop resistance maximum pairset DC loop resistance						Response Response Status C ACCEPT IN PRINCIPLE. "When connected to a dual- signature PD, when operating in 2-pair mode, or when the PD signature **configuration** has not yet been identified, V PSE is measured between any				
actual DC pairs					positiv		e pairset and any negative				
SuggestedRemedy Change					C/ 145	SC 145.1.4	P106	L 34	# r01-133		
actual DC pairs	et resistance				Yseboodt,		Philips Lighti	-	101-100		
to actual pairset D	C resistance				Comment	Туре Е	Comment Status A		Editorial		
Response ACCEPT.	Resp	oonse Status C				1995 with the ac	eration requires Class D, or Iditional requirement that the				
						ent i-48 against dant reference to	D3.0 attempted to fix this, bo Type.	ut misquoted the	draft.		
					Suggested	Remedy					
					Replace by: "Class D, or better, cabling as specified in ISO/IEC 11801:1995 with the additio requirement that the channel DC loop resistance is 25 Ohm or less is required t operation as specified in this Clause."						
					Response		Response Status C				
					ACCE	PT.					
	S: D/dispatche			I T/technical E/editorial G/ NSE STATUS: O/open W/w		U/unsatisfied 2	Pa 1 Z/withdrawn Li 3		Page 36 of 130 12/1/2017 3:17:47 P		

' PM

IEEE P802.3bt D3.1 4-Pair PoE 1st Sponsor recirculation ballot comments C/ 145 SC 145.2 P107 L18 # r01-134 C/ 145 SC 145.2.1 P107 L 30 # r01-136 Yseboodt, Lennart Philips Lighting Philips Lighting Yseboodt, Lennart Comment Type E Comment Status A Editorial Comment Type TR Comment Status A PSE Types "Additional electrical specifications that apply to the PSE are in 145.4." I lost count of how many times we have changed Table 145-2, and it is STILL wrong and confusina. SuggestedRemedy "Additional electrical specifications that apply to the PSE are **specified** in 145.4." Issues: - 'Supports 4-pair power' has entry 'Optional' and 'Yes' ==> this overlaps. Response Response Status C - "Range of maximum Class supported" ==> requires a PhD in subtle standards language ACCEPT. to understand - Every single one of the values for "Range of maximum Class supported" is wrong per the C/ 145 SC 145.2.1 P107 L 28 # r01-135 changes to D3.0 Yseboodt, Lennart Philips Lighting SugaestedRemedv Comment Type ER Comment Status D Will use column.row coordinates for changes, the heading row counts as row 0. Editorial Change: "PSE Type is a constant." (2,1) replace "Optional" by "No" (3.0) replace "Range of maximum Class supported" by "Highest Class supported" False. A PSE could be reconfigured between Type 3 and Type 4 (if it meets all the (3,1) replace "Class 3 to 4" by "1 to 4" requirements) when it is in the IDLE/DISABLED state. (3,2) replace "Class 5 to 6" by "1 to 6" Rather than open that can of worms, how about we just remove this text. (3,3) replace "Class 8" by "7 to 8" This is one of those sentences that causes more trouble than what it tried to solve. SuggestedRemedy Straddle columns with identical content where appropriate. Remove quoted sentence. Response Response Status C Proposed Response Response Status Z ACCEPT IN PRINCIPLE. REJECT. Will use column, row coordinates for changes, the heading row counts as row 0. Change: This comment was WITHDRAWN by the commenter. (2.1) replace "Optional" by "No/Yes" (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. C/ 145 SC 145.2.3 P108 # L14 r01-495 Thompson, Geoffrey Individual Comment Type E Comment Status A Editorial LATE COMMENT: Line breaks within a term. SugaestedRemedv Use non-breaking dash or an early required return. Response Response Status C ACCEPT. TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general Page 37 of 130 Pa 108

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn Li 14 12/1/2017 3:17:47 PM SORT ORDER: Page, Line

C/ 145 SC 145.2.3 P 110 L 4 # r01-290 RAN, ADEE Intel Corporation Intel Corporation<	C/ 145 SC 145.2.4 P 115 L 5 # r01-137 Yseboodt, Lennart Philips Lighting Philips Lighting Philips Lighting Philips Lighting
Comment Type E Comment Status R Editorial This subclause seems to be an elaboration of the content of 145.2.2. If so, it should be hierarchically positioned under it. E E	Comment Type E Comment Status A Editor " which for PSEs are called Alternatives A and Alternative B." Editor Editor
SuggestedRemedy Make this subclause 4th-order so that it becomes 145.2.2.1. Response Response Status C REJECT. 145.2.2 is about PSE Location.	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 ACCEPT.
145.2.3 is about YOL Econton:145.2.3 is about Midspan varients (specifically about data rates).C/145SC145.2.4P115L1#r01-291	C/ 145 SC 145.2.4 P 115 L 6 # r01-50 RAN, ADEE Intel Corporation Intel Corporation Intel Corporation Intel Corporation
RAN, ADEE Intel Corporation Comment Type T Comment Status A PSE PI This subclause it titled "PI pin assignments" but it also defines alternatives and has normative requirements about them, so it's not just pin assignments. PSE PI	Comment Type E Comment Status A Editor "Alternatives A and Alternative B" SuggestedRemedy Editor Editor Change to "Alternative A and Alternative B". Editor Editor
The parallel subclause for the PI is titled "PD PI". SuggestedRemedy Rename this subclause "PSE PI".	Response Response Status C ACCEPT IN PRINCIPLE. " which for PSEs are named Alternative A and Alternative B."
Response Response Status C ACCEPT.	This resolution is identical to comment #137.
C/ 145 SC 145.2.4 P 115 L 3 # r01-33 Jones, Chad Cisco Systems, Inc. Cisco	C/ 145 SC 145.2.4 P 115 L 6 # r01-377 Stover, David Analog Devices Inc. #
Comment Type E Comment Status A Editorial "A PSE device may provide power via one or both of the two valid four-conductor connections named pairsets." missing a comma SuggestedRemedy	Comment Type E Comment Status A Editor "are called Alternatives A and Alternative B" mixed form SuggestedRemedy Editor SuggestedRemedy Change "Alternatives A" to "Alternative A" Editor Response Response Status C
Change to: "A PSE device may provide power via one or both of the two valid four- conductor connections, named pairsets"	ACCEPT IN PRINCIPLE.
Response Response Status C ACCEPT.	" which for PSEs are named Alternative A and Alternative B." This resolution is identical to comment #137.

TYPE: TR/technical required ER/editorial required GR/gener	al required T/technical E/editorial G/general	Pa 115	Page 38 of 130
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	Li 6	12/1/2017 3:17:47 PM
SORT ORDER: Page, Line			

Cl 145 SC 145. Yseboodt, Lennart	2.5.1 P116 Philips Light	L 26 ing	# r01	1-138	<i>Cl</i> 145 Darshan, Ya	SC 145.2.5.1 r	P116	L 49	# r01-405
Comment Type ER Comment Status A Editorial TOPIC:SIGNATURE These comments fix inconsistencies in the word 'signature'. When referring to detection, we should talk about "PD detection signature". When referring to signature configuration, we should either say "single-signature PD, dual-signature PD, or PD signature configuration". The draft contains 12 instances of the ambiguous "PD signature". "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." SuggestedRemedy Change as follows: "If a PSE performing detection using Alternative A detects an invalid **detection** signature, it should complete a second detection using 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."					Comment Ty It will hel machine The prim valid, so is valid c (As a res IDLE and SuggestedR Add the "When F regardle during 4	pe T p the reader if is based on the ary alternative if primary fails r not. sult, if we want d set the other emedy following text a SE supports of ss if secondary pair operation we B in IDLE in esponse	Comment Status D we add text in the intro to the e following concept: is the OmasterO and powerin detection, we donOt power th to power secondary if primary alternative as primary.) fter line 49: ual-signature PD, powering seconda it may be necessary to swap order to power the secondary <i>Response Status</i> Z	ng secondary is ne secondary re / fails detection econdary is ena ry is needed wi the roles pf Ali	pending if primary is gardless if its signature , we can flip by going to abled if primary is valid hen primary is not valid
detection cycle pr	or to an Alternative B PSE preservalid **detection** signature." Response Status C				C/ 145	SC 145.2.5.1		L 5 1	# r01-139
ACCEPT.					Yseboodt, Le Comment Ty		Philips Lighting	g	PSE S
					"Monitor This sen	, ng of inrush is	described by the state diagra removed when the inrush stat		5-19."
					SuggestedR	emedy			
					statedia	gram.	when the inrush statediagram	s are included	in the top level PSE
					Proposed Re		Response Status Z		
					REJECT	•			

Pa 116 Li 51

C/ 145	SC 145.2.5.2	P117	<i>L</i> 1	# r01-140	C/ 145	SC 145.2.5	-	P 117	L 49	# r01-141
rseboodt, L		Philips Lightir	ig		Yseboodt,			nilips Lightir	ng	
Comment Type TR Comment Status A Pres: Yseboodt6 Our state diagrams are inordinately complex, with a very large number of variables (current count 163 for the PSE). Given that our state diagrams mutated out of the Clause 33 state diagrams, we have low consistency in our variable descriptions. Specifically, it is unclear what the rules are pertaining to each variable: - may it be set externally ? - only in IDLE, or at any time ? - only in IDLE, or at any time ? - is it a state diagram internal variable ? - is it a variable that must be set according to certain rules (eg. mps_valid) ? The current descriptions don't help. 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] 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 SuggestedRemedy						single-signatu the T det time dual-signature the same T de single-signature n different T de dual-signature nt T det cycles his text adds m p it ? the following is sentence seem means the def ere a difference ed ? ptive text like t e worried abou ely at the same	period. PD, parallel detect t time period. re PD, staggered de st cycles. PD, parallel detect " hore confusion / risk ssues: s to want to say 'station for staggered between the first two his does NOTHING t 'parallel detection' e time, I would offer	tter CC_DE ction means ttion means tection means ction means of contradi aggered det d detection wo sentenc technically being inter that a do_c	s that detection s that detection ans that detection s that detection iction than that i tection' rather th is the same for es ? If yes it f , preted as the ad detection_xxx fu	PSE S on both pairsets is done on both pairsets is done on on both pairsets is both pairsets is done in it clarifies. Do we want it clarifies. Do we want an parallel detection. single and dual is the eels like it should be ctual detection happining inction is perfectly . while the other function
	0				is doin	ig it's thing), as	long as it meets th	e Tdet timir	ng.	
00		17_variablerules.pdf Response Status C			to use	, as we discove CC_DET_SEC same time.	ered, the functions f Q=2 where the two o	VIUS I be al detection fu	ble to wait in ord Inctions and the	der to correctly be able cxn function are called
ACCEF	PT IN PRINCIPLI	E.			SuggestedRemedy Option 1: remove quoted text.					
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]					Replac "Paral time p	ce by: lel detection re eriod. ered detection		both pairse	ets being perform	med in the same Tdet ormed in a different Tdet
					Replac	PT IN PRINCII ce by: lel detection re			ets being perfor	med in the same Tdet

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Pa 117

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 Li 49

 SORT ORDER: Page, Line
 Pa
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Staggered detection refers to detection on both pairsets being performed in a different Tdet cycle."

,					
C/ 145	SC 14	45.2.5.3	P117	L 49	# r01-406
Darshan, Y	rair				
Comment	Туре	т	Comment Status A		PSE SD

The definition of parallel detection for single-signature and for dual-signature looks practically the same. As a result, the following text can be simplified: "For a single-signature PD, parallel detection means that detection on both pairsets is done within the Tdet time period. For a dual-signature PD, parallel detection means that detection on both pairsets is done within the same Tdet time period."

SuggestedRemedy

Change from:

"For a single-signature PD, parallel detection means that detection on both pairsets is done within the Tdet time period. For a dual-signature PD, parallel detection means that detection on both pairsets is done within the same Tdet time period."

To:

"Parallel detection means that detection on each pairset is done within the Tdet time period. See Annex 145B.1 for details."

Response

Response Status C

ACCEPT IN PRINCIPLE.

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.

C/ 145	SC 145.2.5.3	P117	L 50	# r01-407	
Darshan,	Yair				

Comment Type E Comment Status A PSE SD

In the text "For a dual-signature PD, parallel detection means that detection both pairsets is done within the same Tdet time period.": Missing "of".

SuggestedRemedy

Change from " "For a dual-signature PD, parallel detection means that detection both pairsets

is done within the same Tdet time period."

To: "For a dual-signature PD, parallel detection means that detection of both pairsets is done within the same Tdet time period."

Response Response Status C

ACCEPT IN PRINCIPLE.

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.

Pa **117** Li **50**

C/ 145 SC 145.2 Darshan, Yair	.5.3 <i>P</i> 117	L 52	#	r01-408	C/ 145 Stover, Dav		145.2.5.3	P1 ⁻ Analo	18 g Devic	L1 es Inc.	# r(01-379
comment Type T	Comment Status A			PSE SD	Comment T	ype	ER	Comment Status	Α			Editorial
same. As a result to	staggered detection for single-sext can be simplified.	-	-	ature are the	"For a c Missing		gnature PD	, parallel detection	means t	that detection bo	oth pairsets i	is done"
,	in page 118 line 1, the "parallel"	' need to be stage	gered".		SuggestedF	Remea	ły					
uggestedRemedy					Change	"that	detection b	oth pairsets" to "tha	t detect	tion on both pair	sets"	
Change from: "For	a single-signature PD, staggere ne in different Tdet cycles. For a	d detection mean	ns that det	ection on	Response			Response Status	С			
means that detection	on both pairsets is done in differ	ent Tdet cycles."			ACCEP	T IN F	PRINCIPLE					
To: "Staggered det	ection means that detection on	both pairsets is d	lone in diff	erent Tdet	Darlas	. h						
cycles. See Annex					Replace "Paralle		ction refers	to detection on bot	h pairse	ets beina perform	ned in the sa	ame Tdet
Response	Response Status C				time pe	iod.			•	01		
ACCEPT IN PRINC	JPLE.				Stagger cycle."	ed de	tection refe	rs to detection on b	oth pair	sets being perfo	rmed in a di	fferent Tdet
Replace by: "Parallel detection time period.	refers to detection on both pairs	ets being perforn	ned in the	same Tdet	This res	olutio	n is identica	al to comment #141				
	n refers to detection on both pai	rsets being perfo	ormed in a	different Tdet	C/ 145	SC	145.2.5.3	P 1 [•]	18	L1	# r(01-409
cycle."		01			Darshan, Ya	air						
This resolution is id	lentical to comment #141.				Comment T	ype	т	Comment Status	Α			PSE SD
/ 145 SC 145.2	.5.3 <i>P</i> 118	L1	#	r01-34			ext "For a du	ual-signature PD, pa	arallel de	etection means	that detectio	on both
ones, Chad	Cisco Syster		TT TT	101-34	pairsets		ant Tdat cvr	cles.". The "parallel'	' nood ti	o ha stannarad"	In addition	the word
				F alita via l	"of" is n				need t	o be staggered	. In addition,	
comment Type ER	Comment Status A	staggorod		Editorial	SuggestedF	Remea	ły					
	re PD, parallel detection means	00	oth pairset	s is done in	00	from:		I-signature PD, para	allel det	ection means th	at detection	both
SuggestedRemedy							ent Tdet cyc					
,	dual-signature PD, staggered d	etection means th	hat detecti	on both			al-signature ent Tdet cvo	PD, staggered det	ection m	neans that detec	ction of both	pairsets is
	different Tdet cycles."				Response	unicit			c			
esponse	Response Status C				•		PRINCIPLE	Response Status	L.			
ACCEPT IN PRINC	VIPLE.				ACCEI	1 1111						
Dealers hu					Replace							
Replace by: "Parallel detection i	refers to detection on both pairs	ets being perforn	ned in the	same Tdet	"Paralle time pe		ction refers	to detection on bot	h pairse	ets being perform	ned in the sa	ame I det
time period.		ete zemig periem					tection refe	rs to detection on b	oth pair	sets being perfo	rmed in a di	fferent Tdet
Staggered detectio cycle."	n refers to detection on both pai	rsets being perfo	ormed in a	different Tdet	cycle."							
This resolution is id	lentical to comment #141.				This res	olutio	n is identica	al to comment #141	•			
	uired ER/editorial required GR								Pa 11	8	Pag	ge 42 of 130
OMMENT STATUS	D/dispatched A/accepted R/reje	ected RESPON	NSE STAT	US Olopen W/v	vritten C/closed	11/und	satisfied 7/	withdrawn	Li 1		10/	

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C/ 145 SC 145.2.5.4		L 31	# r01-142	C/ 145	SC 145.2.5.		L 31	# r01-143
Yseboodt, Lennart	Philips Lightin	g		Ysebood	i, Lennart	Philips Lig	hting	
Comment Type TR	Comment Status A		Alt	tpwrd Commer	t Type E	Comment Status A		Altpwrd
	ion of alt_pwrd_pri and alt_pw tected, classified, and will pov		e Primary Alternative,	, is powe	ble alt_pwrd_pri, PSE has detecte ring the Primary ng 'or'.	ed, classified, and will powe	er a PD on the Prir	nary Alternative, is
	tected, classified, and will pov	ver a PD on the	Secondary Alternati	tivo "	0			
				Suggeste	edRemedy			
Other comments	fix the editorial issues with the	ese sentences.			PSE has detecte pring the Primary	ed, classified, and will powe Alternative."	er a PD on the Prir	nary Alternative, **or** is
We discussed this at the	ne last meeting and I feel we	did not end up	with a good solution.		e if comment ma	rked ALT_PWRD is accep	ted.	
These variables' "TRU	les should be restricted to wh E" description includes behav g a forward looking statement	iour that (shou		n the Respons	e EPT IN PRINCIP	Response Status C LE.		
If we look at how these	e variables are actually used, t	the definition re	eally is very simple:		ace quoted sente SE: The circuitry	nces by: / that applies operating vol	tage to the Primary	/ Alternative is disabled."
	not to apply power to the XYZ apply power to the XYZ Alter			and "TRU	IE: The circuitry t	hat applies operating volta	ge to the Primary	Alternative is enabled."
SuggestedRemedy				And	he same for Sec	ondary.		
and	nces by: that applies operating voltage nat applies operating voltage t			icu.	resolution is iden	tical to comment #142.		
And the same for Seco	ondary.							

Response

ACCEPT.

Response Status C

Pa **118** Li **31**

C/ 145 SC 145.2.5.3 P118 Darshan, Yair	L 36 # r01-410	C/ 145 SC 145.2.5.4 P 118 L 38 # [r01-146] Yseboodt, Lennart Philips Lighting					
Comment Type T Comment Status A The text of alt_pwrd_pri variable "TRUE: The PSE has d a PD on the Primary Alternative, is powering the Primary Alternative.", looks it has a copy the Primary Alternative" need to be deleted. It should be alt_pwrd_sec variable. SuggestedRemedy Change from: "TRUE: The PSE has detected, classified Primary Alternative, is powering the Primary Alternative." To: "TRUE: The PSE has detected, classified, and will p Alternative."	past error. The part "is powering similar to what we have in , and will power a PD on the	Comment Type TR Comment Status A Alternative Variable alt_pwrd_sec, TRUE: "The PSE has detected, classified, and will power a PD on the Secondary Alternative." Missing the bit where it is already powering the Secondary. SuggestedRemedy "The PSE has detected, classified, and will power a PD on the Secondary Alternative**, is powering the Secondary Alternative**." Response Response Status C ACCEPT IN PRINCIPLE. Alternative **					
Response Response Status C ACCEPT IN PRINCIPLE. Replace quoted sentences by: "FALSE: The circuitry that applies operating voltage to the and "TRUE: The circuitry that applies operating voltage to the And the same for Secondary. This resolution is identical to comment #142.	-	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.					

Pa **118** Li **38**

Cl 145 SC 145.2.5.4 P 118 L 38 # r01-145 Yseboodt, Lennart Philips Lighting	Cl 145 SC 145.2.5.4 P 118 L 42 # r01-58 Agnes, Andrea STMicroelectronics STMicroelectronics TMICROELECTRONICS TMICROELECTRONICS
Comment Type E Comment Status A Altpurd Variable alt_pwrd_sec, TRUE: "The PSE has detected, classified, and will power a PD on the Secondary Alternative." Does not match Primary definition. SuggestedRemedy Replace by: "The PSE has detected, classified, and will power a PD on the Primary Alternative, or is powering the Secondary Alternative." Ignore if comment marked ALT_PWRD is accepted.	Comment Type E Comment Status A Altpwrd alt_pwrd_sec has value TRUE also when power is applied (as alt_pwrd_pri) SuggestedRemedy Image: TRUE also when power is applied (as alt_pwrd_pri) Image: TRUE also when power is applied (as alt_pwrd_pri) Image: TRUE also when power is applied (as alt_pwrd_pri) Image: TRUE also when power is applied (as alt_pwrd_pri) Image: TRUE also when power is applied (as alt_pwrd_pri) Image: TRUE also when power is applied (as alt_pwrd_pri) Image: TRUE also when power also w
Response Response Status 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.	"FALSE: The circuitry that applies operating voltage to the Primary Alternative is disabled." "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 34 Image: Part of the primary and primary
This resolution is identical to comment #142.	Yseboodt, Lennart Philips Lighting Comment Type E Comment Status A Editorial "A variable that indicates whether a 4-pair PSE has completed detection on a first Alternative but not on a second Alternative." Editorial Editorial Description differs from how 'both_neither' and 'only_one' are described. Editorial Editorial SuggestedRemedy Change to: "A variable that indicates whether a 4-pair PSE has completed detection on one and only one Alternative or on neither or both Alternatives."
	Response Response Status C ACCEPT IN PRINCIPLE. Change to: "A variable that indicates whether a 4-pair PSE has completed detection on one and only one Alternative or if the PSE has completed detection on neither or both Alternatives."

Pa **119** Li **34**

C/ 145 SC 145.2.5.4 Yseboodt, Lennart	P119 L Philips Lighting	40 #	r01-147	C/ 145 SC 145.2.5.4 P 119 L 40 # r01-148 Yseboodt, Lennart Philips Lighting Philips Lighting Philips Lighting Philips Lighting
Comment Type E "A variable indicating th Wrong field quotation. SuggestedRemedy	Comment Status A e state of the PD 4PID bit in the 'po	wer type/source/p	<i>Editori</i> priority field'"	"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." The values are described as:
Change to: "A variable indicating th	e state of the PD 4PID bit in the 'Po	wer type/source/p	priority' field"	"0: 2-pair power negotiated. 1: 4-pair power negotiated."
Response Response Status C ACCEPT.				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 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 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
				Response Response Status C ACCEPT.
				C/ 145 SC 145.2.5.4 P 119 L 41 # [r01-411] Darshan, Yair
				Comment Type T Comment Status A Editorial Link to table 79-4 doesnOt work.
				SuggestedRemedy Fix the link to Table 79-4.
				Response Response Status C ACCEPT.
•	d ER/editorial required GR/general patched A/accepted R/rejected	•		G/general Pa 119 Page 46 of 130 //written C/closed U/unsatisfied Z/withdrawn Li 41 12/1/2017 3:17:47

C/ 145 SC 145.2.5.4 P 120 L 6 Stewart, Heath Analog Devices Inc.	# r01-335	C/ 145 SC 145.2.5.4 Darshan, Yair	P 120	L 7	# r01-412
Comment Type TR Comment Status A Typo during comment execution. Error_condition_pri appears twice. Sec 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.	<i>Editorial</i> cond occurrence	Variable name has typo. It is err SuggestedRemedy Change to "error_condition_sec'	nse Status C 0120/line 7 to error_cc	ondition_sec	Editorial
Cl 145 SC 145.2.5.4 P 120 L7 Yseboodt, Lennart Philips Lighting Comment Type ER Comment Status A Variable error_condition_pri is listed twice (copy / paste mistake). SuggestedRemedy Change error_condition_pri on p120/line 7 to error_condition_sec Response Response Status C ACCEPT. Comment Status C	# <u>r01-149</u> Editorial	Variable option_2ev has incorred SuggestedRemedy Fix. Also same fix for: - pd_req_pwr - pse_allocated_pwr	P121 Philips Lighting nent Status A ct formatting of the va		# <u>r01-150</u> Editorial s (not aligned).
Cl 145 SC 145.2.5.4 P 120 L 7 Jones, Chad Cisco Systems, Inc.	# r01-35	ACCEPT.			
Comment Type ER Comment Status A cut and paste error, pri should be sec: error_condition_pri SuggestedRemedy Changed 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.	Editorial				

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Page, Line Pa **121** Li **22** Page 47 of 130 12/1/2017 3:17:47 PM

C/ 145 SC 145.2.5.4 P 121 L 28 # [r01-151] Yseboodt, Lennart Philips Lighting	C/ 145 SC 145.2.5.6 P 121 L 53 # r01-152 Yseboodt, Lennart Philips Lighting Philips Lighting
Comment Type E Comment Status A Editorial	Comment Type E Comment Status A E
option_class_probe: "This variable indicates if the PSE should determine the PD requested Class when pse_avail_pwr is less than 4"	option_probe_alt_sec "This variable indicates if the PSE will continue to detect and conditionally class on the Secondary Alternative in the event power is not applied to the Primary Alternative."
The state diagram will perform class probing when this option is set regardless of the value of pse_avail_pwr.	'class' is not a verb.
The actual behavior is further complicated by option_2ev and this variable being used for	SuggestedRemedy
dual-signature. Best way to fix this description is not to mention any conditions that don't really apply anyway.	Change as follows: "This variable indicates if the PSE will continue to detect and conditionally XXclassXX
SuggestedRemedy	**perform Physical Layer classification** on the Secondary Alternative in the event pov not applied to the Primary Alternative."
Replace first sentence by: "This variable indicates if the PSE should determine the PD requested Class via the do_class_probe function."	Response Response Status C ACCEPT.
Response Response Status C	C/ 145 SC 145.2.5.4 P122 L 43 # r01-153
ACCEPT.	Yseboodt, Lennart Philips Lighting
C/ 145 SC 145.2.5.4 P121 L 42 # r01-336	Comment Type E Comment Status A E
Stewart, Heath Analog Devices Inc.	Comment Type E Comment Status A E "This variable is a function of the results of Detection, Connection Check, Physical Lay Classification, and PD 4PID; see 145.2.6.7."
Stewart, Heath Analog Devices Inc. Comment Type TR Comment Status A PSE SD option_detect_ted_timer_pri/sec both refer to ted_timer when they should be referring to	"This variable is a function of the results of Detection, Connection Check, Physical Lay Classification, and PD 4PID; see 145.2.6.7." Unnecessary capitalization.
Stewart, Heath Analog Devices Inc. Comment Type TR Comment Status A PSE SD option_detect_ted_timer_pri/sec both refer to ted_timer when they should be referring to their respective timers ted_timer_pri/sec. PSE SD	"This variable is a function of the results of Detection, Connection Check, Physical Lay Classification, and PD 4PID; see 145.2.6.7." Unnecessary capitalization. SuggestedRemedy
Stewart, Heath Analog Devices Inc. Comment Type TR Comment Status A Option_detect_ted_timer_pri/sec both refer to ted_timer when they should be referring to	"This variable is a function of the results of Detection, Connection Check, Physical Lay Classification, and PD 4PID; see 145.2.6.7." Unnecessary capitalization.
Stewart, Heath Analog Devices Inc. Comment Type TR Comment Status A PSE SD 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.	"This variable is a function of the results of Detection, Connection Check, Physical Lay Classification, and PD 4PID; see 145.2.6.7." Unnecessary capitalization. SuggestedRemedy Change to: "This variable is a function of the results of detection, connection check, Physical Laye
Stewart, Heath Analog Devices Inc. Comment Type TR Comment Status A PSE SD 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.	"This variable is a function of the results of Detection, Connection Check, Physical Lay Classification, and PD 4PID; see 145.2.6.7." Unnecessary capitalization. SuggestedRemedy Change to: "This variable is a function of the results of detection, connection check, Physical Laye classification, and PD 4PID; see 145.2.6.7."
Stewart, Heath Analog Devices Inc. Comment Type TR Comment Status A PSE SD option_detect_ted_timer_pri/sec both refer to ted_timer when they should be referring to their respective timers ted_timer_pri/sec. PSE SD 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	 "This variable is a function of the results of Detection, Connection Check, Physical Lay Classification, and PD 4PID; see 145.2.6.7." Unnecessary capitalization. SuggestedRemedy Change to: "This variable is a function of the results of detection, connection check, Physical Laye classification, and PD 4PID; see 145.2.6.7." Response Response Status C
Stewart, Heath Analog Devices Inc. Comment Type TR Comment Status A PSE SD option_detect_ted_timer_pri/sec both refer to ted_timer when they should be referring to their respective timers ted_timer_pri/sec. PSE SD 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	"This variable is a function of the results of Detection, Connection Check, Physical Lay Classification, and PD 4PID; see 145.2.6.7." Unnecessary capitalization. SuggestedRemedy Change to: "This variable is a function of the results of detection, connection check, Physical Laye classification, and PD 4PID; see 145.2.6.7." Response Response Status C ACCEPT.
Stewart, Heath Analog Devices Inc. Comment Type TR Comment Status A PSE SD option_detect_ted_timer_pri/sec both refer to ted_timer when they should be referring to their respective timers ted_timer_pri/sec. PSE SD 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	 "This variable is a function of the results of Detection, Connection Check, Physical Lay Classification, and PD 4PID; see 145.2.6.7." Unnecessary capitalization. SuggestedRemedy Change to: "This variable is a function of the results of detection, connection check, Physical Laye classification, and PD 4PID; see 145.2.6.7." Response Response Status C ACCEPT. CI 145 SC 145.2.5.4 P123 L8 # [101-380]
Stewart, Heath Analog Devices Inc. Comment Type TR Comment Status A PSE SD option_detect_ted_timer_pri/sec both refer to ted_timer when they should be referring to their respective timers ted_timer_pri/sec. PSE SD 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	 "This variable is a function of the results of Detection, Connection Check, Physical Lay Classification, and PD 4PID; see 145.2.6.7." Unnecessary capitalization. SuggestedRemedy Change to: "This variable is a function of the results of detection, connection check, Physical Laye classification, and PD 4PID; see 145.2.6.7." Response Response Status C ACCEPT. C/ 145 SC 145.2.5.4 P123 L8 # r01-380 Stover, David Analog Devices Inc. Comment Type E Comment Status A E "to determine the PD's Type" posessive.
Stewart, Heath Analog Devices Inc. Comment Type TR Comment Status A PSE SD option_detect_ted_timer_pri/sec both refer to ted_timer when they should be referring to their respective timers ted_timer_pri/sec. PSE SD 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	 "This variable is a function of the results of Detection, Connection Check, Physical Lay Classification, and PD 4PID; see 145.2.6.7." Unnecessary capitalization. SuggestedRemedy Change to: "This variable is a function of the results of detection, connection check, Physical Laye classification, and PD 4PID; see 145.2.6.7." Response Response Status C ACCEPT. C/ 145 SC 145.2.5.4 P123 L8 # [101-380] Stover, David Analog Devices Inc. Comment Type E Comment Status A E
Stewart, Heath Analog Devices Inc. Comment Type TR Comment Status A PSE SD option_detect_ted_timer_pri/sec both refer to ted_timer when they should be referring to their respective timers ted_timer_pri/sec. PSE SD 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	 "This variable is a function of the results of Detection, Connection Check, Physical Lay Classification, and PD 4PID; see 145.2.6.7." Unnecessary capitalization. SuggestedRemedy Change to: "This variable is a function of the results of detection, connection check, Physical Laye classification, and PD 4PID; see 145.2.6.7." Response Response Status C ACCEPT. Cl 145 SC 145.2.5.4 P123 L8 # [101-380] Stover, David Analog Devices Inc. Comment Type E Comment Status A E "to determine the PD's Type" posessive. SuggestedRemedy Change to "to determine PD Type" (four places; pd_cls_4PID_pri and pd_cls_4PID_see

ITPE: IR/technical required ER/editorial required GR/general required T/technical E/editorial G/generalPa 123Page 48 of 130COMMENT STATUS: D/dispatched A/accepted R/rejectedRESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawnLi812/1/2017 3:17:47 PMSORT ORDER: Page, Line

C/ 00 SC 0	P123	L 53	# r01-413	C/ 145	SC 145.2.5.4	P125	L 32	# r01-155
Darshan, Yair				Yseboodt, L	ennart	Philips Lighting	9	
Comment Type E The variable pse_alloc	Comment Status R cated_power for value 3 need to	o be Class 0 or	PSE SD class 3.		SIGNATURE	Comment Status A		Editoria
SuggestedRemedy Change from "3: Class Response REJECT. Type 3 and 4 PSEs do comment 154.	s 3" To: "3: Class 0, 3" <i>Response Status</i> C o not allocate class 0 power. 1	hey only alloca	te class 3. See	When n When n signatu The dra "NOTE- using A	eferring to detect eferring to signate PD, or PD signate ft contains 12 in Care should b ternative A afte	consistencies in the word 'sigr tion, we should talk about "PI ture configuration, we should nature configuration". stances of the ambiguous "PI e taken when negating this va r an invalid signature is detect npts (see 145.2.5.1)."	D detection sig either say "sin D signature". ariable in a PSI	gle-signature PD, dual-
	Philips Lightin Comment Status A lue 3 is described as "Class 0 ss 0 for assignments / availabl	or 3".	# <u>r01-154</u> <i>PSE SD</i> exists as a requested	"NOTE- using A introduce Response	as follows: Care should b ternative A afte es between det	e taken when negating this va r an invalid **detection** signa ection attempts (see 145.2.5. <i>Response Status</i> C	ature is detecte	
SuggestedRemedy				ACCEP	Т.			
Change quoted text to				<i>Cl</i> 145 Yseboodt, L	SC 145.2.5.4 ennart	P 125 Philips Lighting	L 42	# r01-156
	avail_pwr_pri and pse_avail_p	wr_sec.		Comment T	ype TR	Comment Status A		PSE SI
Response ACCEPT.				pse_res "Contro until sud diagram	et_pri: s the resetting o ch time as the p is has reached t	of the PSE state diagram on A ower supply for the device that the operating region. It is also f PSE Alternative A functional	at contains the TRUE when ir	Condition that is TRUE PSE overall state
				Hard lin	ks _pri to Altern	ative A.		
				SuggestedF	Remedy			
						" with "Primary Alternative" " with "Secondary Alternative	"	
				Response ACCEP	Т.	Response Status C		

Pa **125** Li **42**

Darshan, Yair		L 43	# r01-414	C/ 145 Darshan, Ya	SC 145.2.5.4 air	P1	25	L 5 1	#	r01-417	
Comment Type T Comment St	tatus A		PSE SD	Comment Ty	ype T	Comment Status	Α			PSE	SD
1. In the text "Controls the resetting of Primary Alternative and not Alternative 2. The same in line 46.		diagram on Alter	native A." it is	pse_res SuggestedR	- 0	alternative B to seco	ondary altern	ative. Same in	n page	126 line 2.	
SuggestedRemedy				change	alternative B to	secondary alternativ	/e.				
Change from "Alternative A" to "Primar	rv Alternative" ir	n both locations		Response		Response Status	С				
Response Response Sta	•	in boun locations.		ACCEP	T IN PRINCIPL	Ξ.					
ACCEPT IN PRINCIPLE.				Change	from "Alternativ	e B" to "Secondary	Alternative" i	n both location	IS.		
- Replace "Alternative A" with "Primary - Replace "Alternative B" with "Second				This res	olution is idention	cal to comment #416	б.				
				C/ 145	SC 145.2.5.4	P1	26	L 7	#	r01-157	
This resolution is identical to comment	: #156.			Yseboodt, L	ennart	Philip	s Lighting				
C/ 145 SC 145.2.5.4	P 125	L 43	# r01-415	Comment Ty		Comment Status				PSE	SD
Darshan, Yair						ole that controls whe ngle-signature PD."	ther the PSE	provides pow	er ove	r 2 pair or 4	
Comment Type T Comment St pse_reset_pri: change alternative A to		ative. Same in lin	PSE SD e 46.			Class, and as such,	it should be	Class 1 to 4.			
1 = = 0	. ,				one to decignica						
SuggestedRemedy				SuggestedR	Remedy						
,	itive.			SuggestedR Replace		ode: A variable that	controls whe	ther the PSE r	orovide	s power over	
change alternative A to primary alterna Response Response Sta				Replace 2 pair or	e by: "pse_ss_m	ode: A variable that le-signature PD assi lg.				s power over	
change alternative A to primary alterna				Replace 2 pair or	by: "pse_ss_m 4 pair to a sing	le-signature PD assi	igned to Clas			s power over	r
change alternative A to primary alterna Response Response Sta	tatus C			Replace 2 pair or Also fix	e by: "pse_ss_m r 4 pair to a sing the bad indentir	le-signature PD assi g.	igned to Clas			s power over	r
change alternative A to primary alterna Response Response Sta ACCEPT IN PRINCIPLE.	tatus C / Alternative"			Replace 2 pair or Also fix Response ACCEP	by: "pse_ss_m 4 pair to a sing the bad indentir T.	le-signature PD assi g. <i>Response Status</i>	igned to Clas C	s 1 through 4.	"		
change alternative A to primary alterna Response Response Sta ACCEPT IN PRINCIPLE. - Replace "Alternative A" with "Primary	tatus C / Alternative" lary Alternative"			Replace 2 pair or Also fix Response ACCEP C/ 145	by: "pse_ss_m 4 pair to a sing the bad indentir T. SC 145.2.5.4	le-signature PD assi ig. Response Status P1.	igned to Clas C 27			s power over	r
change alternative A to primary alterna Response Response Sta ACCEPT IN PRINCIPLE. - Replace "Alternative A" with "Primary - Replace "Alternative B" with "Second This resolution is identical to comment	tatus C / Alternative" lary Alternative" t #156.		# [01.416]	Replace 2 pair or Also fix Response ACCEP Cl 145 Yseboodt, L	by: "pse_ss_m 4 pair to a sing the bad indentir T. SC 145.2.5.4 ennart	le-signature PD assi ig. <i>Response Status</i> <i>P</i> 1 Philip	igned to Clas C 27 s Lighting	s 1 through 4.	"	r <u>01-158</u>	
change alternative A to primary alterna Response Response Sta ACCEPT IN PRINCIPLE. - Replace "Alternative A" with "Primary - Replace "Alternative B" with "Seconda This resolution is identical to comment C/ 145 SC 145.2.5.4	tatus C / Alternative" lary Alternative"	" 	# [<u>r01-416</u>]	Replace 2 pair or Also fix Response ACCEP Cl 145 Yseboodt, L Comment Ty	by: "pse_ss_m 4 pair to a sing the bad indentir T. SC 145.2.5.4 ennart <i>ype</i> E	le-signature PD assi ig. <i>Response Status</i> <i>P</i> 1 Philip <i>Comment Status</i>	igned to Clas C 27 s Lighting A	L9	#	r01-158 Editor	
change alternative A to primary alterna Response Response Sta ACCEPT IN PRINCIPLE. - Replace "Alternative A" with "Primary - Replace "Alternative B" with "Second This resolution is identical to comment C/ 145 SC 145.2.5.4 Darshan, Yair	tatus C / Alternative" dary Alternative" t #156. P125			Replace 2 pair or Also fix Response ACCEP Cl 145 Yseboodt, L Comment Ty There a	by: "pse_ss_m 4 pair to a sing the bad indentir T. SC 145.2.5.4 ennart ype E re 5 occurances	le-signature PD assi ig. <i>Response Status</i> <i>P</i> 1 Philip	igned to Clas C 27 s Lighting A ariable" in the	L 9	#	r01-158 Editor variable".	
change alternative A to primary alterna Response Response Sta ACCEPT IN PRINCIPLE. - Replace "Alternative A" with "Primary - Replace "Alternative B" with "Second: This resolution is identical to comment Cl 145 SC 145.2.5.4 Darshan, Yair Comment Type T Comment St	tatus C / Alternative" dary Alternative" t #156. P 125 tatus A	L 51	PSE SD	Replace 2 pair or Also fix Response ACCEP Cl 145 Yseboodt, L Comment Ty There a	by: "pse_ss_m r 4 pair to a sing the bad indentir T. SC 145.2.5.4 ennart ype E re 5 occurances as temp_var, ter	le-signature PD assi ig. Response Status P1 Philip Comment Status of the term "state va	igned to Clas C 27 s Lighting A ariable" in the	L 9	#	r01-158 Editor variable".	
change alternative A to primary alterna Response Response Sta ACCEPT IN PRINCIPLE. - Replace "Alternative A" with "Primary - Replace "Alternative B" with "Second: This resolution is identical to comment C/ 145 SC 145.2.5.4 Darshan, Yair Comment Type T Comment Sta 1. In the text "Controls the resetting of Secondary Alternative and not Alternat	tatus C Alternative" dary Alternative" t #156. P125 tatus A the PSE state of	L 51	PSE SD	Replace 2 pair or Also fix Response ACCEP CI 145 Yseboodt, L Comment Ty There a Variable SuggestedR	by: "pse_ss_m r 4 pair to a sing the bad indentir T. SC 145.2.5.4 ennart ype E re 5 occurances s temp_var, ter Remedy	le-signature PD assi ig. Response Status P1 Philip Comment Status of the term "state va	igned to Clas C 27 s Lighting A ariable" in the	L 9	#	r01-158 Editor variable".	
change alternative A to primary alterna Response Response State ACCEPT IN PRINCIPLE. - Replace "Alternative A" with "Primary - Replace "Alternative B" with "Second This resolution is identical to comment C/ 145 SC 145.2.5.4 Darshan, Yair Comment Type T Comment Type T Comment Type T Secondary Alternative and not Alternative 2. The same in page 126 line 2.	tatus C Alternative" dary Alternative" t #156. P125 tatus A the PSE state of	L 51	PSE SD	Replace 2 pair of Also fix Response ACCEP Cl 145 Yseboodt, L Comment Ty There a Variable SuggestedR	by: "pse_ss_m r 4 pair to a sing the bad indentir T. SC 145.2.5.4 ennart ype E re 5 occurances s temp_var, ter Remedy	le-signature PD assi ig. Response Status P1: Philip Comment Status of the term "state va np_var_pri, and temp	igned to Clas C 27 s Lighting A ariable" in the p_var_sec re	L 9	#	r01-158 Editor variable".	
change alternative A to primary alterna Response Response Sta ACCEPT IN PRINCIPLE. - Replace "Alternative A" with "Primary - Replace "Alternative B" with "Seconda This resolution is identical to comment C/ 145 SC 145.2.5.4 Darshan, Yair Comment Type T Comment Sta 1. In the text "Controls the resetting of Secondary Alternative and not Alternat 2. The same in page 126 line 2. SuggestedRemedy	tatus C Alternative" dary Alternative" t #156. P125 tatus A the PSE state of tive B	L 51 diagram on Alter	PSE SD native B." it is	Replace 2 pair or Also fix Response ACCEP Cl 145 Yseboodt, L Comment Ty There a Variable SuggestedR Replace	a by: "pse_ss_m r 4 pair to a sing the bad indentir T. SC 145.2.5.4 ennart ype E re 5 occurances is temp_var, ter Remedy a 'state variable'	le-signature PD assi ig. Response Status P1 Philip Comment Status of the term "state va np_var_pri, and temp with 'variable' (3x).	igned to Clas C 27 s Lighting A ariable" in the p_var_sec re	L 9	#	r01-158 Editor variable".	
change alternative A to primary alterna Response Response Sta ACCEPT IN PRINCIPLE. - Replace "Alternative A" with "Primary - Replace "Alternative B" with "Seconda This resolution is identical to comment Cl 145 SC 145.2.5.4 Darshan, Yair Comment Type T Comment Sta 1. In the text "Controls the resetting of Secondary Alternative and not Alternat 2. The same in page 126 line 2. SuggestedRemedy Change from "Alternative B" to "Second	tatus C Alternative" dary Alternative" t #156. P125 tatus A the PSE state of tive B	L 51 diagram on Alter	PSE SD native B." it is	Replace 2 pair of Also fix Response ACCEP C/ 145 Yseboodt, L Comment Ty There a Variable SuggestedR Replace Response	a by: "pse_ss_m r 4 pair to a sing the bad indentir T. SC 145.2.5.4 ennart ype E re 5 occurances is temp_var, ter Remedy a 'state variable'	le-signature PD assi ig. Response Status P1 Philip Comment Status of the term "state va np_var_pri, and temp with 'variable' (3x).	igned to Clas C 27 s Lighting A ariable" in the p_var_sec re	L 9	#	r01-158 Editor variable".	
Response Response State ACCEPT IN PRINCIPLE. - - Replace "Alternative A" with "Primary - Replace "Alternative B" with "Secondar This resolution is identical to comment C/ 145 SC 145.2.5.4 Darshan, Yair Comment Type T Comment Type T Secondary Alternative and not Alternative 2. The same in page 126 line 2. SuggestedRemedy	tatus C Alternative" dary Alternative" t #156. P125 tatus A the PSE state of tive B	L 51 diagram on Alter	PSE SD native B." it is	Replace 2 pair of Also fix Response ACCEP C/ 145 Yseboodt, L Comment Ty There a Variable SuggestedR Replace Response	a by: "pse_ss_m r 4 pair to a sing the bad indentir T. SC 145.2.5.4 ennart ype E re 5 occurances is temp_var, ter Remedy a 'state variable'	le-signature PD assi ig. Response Status P1 Philip Comment Status of the term "state va np_var_pri, and temp with 'variable' (3x).	igned to Clas C 27 s Lighting A ariable" in the p_var_sec re	L 9	#	r01-158 Editor variable".	

SORT ORDER: Page, Line

C/ 145 SC 145.2.5.4 P 127 L 9 # r01-315 Peker, Arkadiy Microsemi Corporation Mi	C/ 145 SC 145.2.5.5 P 127 L 40 # r01-159 Yseboodt, Lennart Philips Lighting Philips Lighting Philips Lighting Philips Lighting
Comment Type TR Comment Status A PSE SD	Comment Type E Comment Status A Editori
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."	tcc2det_timer: "A timer used to limit the time between Connection Check and Detection when CC_DET_SEQ = 0 or CC_DET_SEQ = 3. See T cc2det in Table 145-7." Redundant capitals. SuggestedRemedy "A timer used to limit the time between connection check and detection when
To:	CC_DET_SEQ = 0 or CC_DET_SEQ = 3. See T cc2det in Table 145-7."
" temp_var A variable used to store the previous value of the state variable pd_class_sig."	Response Response Status C
Response Response Status C	ACCEPT.
ACCEPT IN PRINCIPLE. Combining with change from comment 158.	C/ 145 SC 145.2.5.5 P127 L 48 # r01-418 Darshan, Yair
Change from " temp_var A variable used to store the value of the state variable pd_class_sig." To:	Comment Type T Comment Status A PSE Status Error in the tcev_timer_pri definition - the timer is relevant also to 3rd class event. PSE Status PSE Status
" temp_var A variable used to store the previous value of the variable pd_class_sig."	SuggestedRemedy
C/ 145 SC 145.2.5.4 P127 L11 # r01-316	Change from " A timer used to limit the second and fourthE" to " A timer used to limit the second through fourthE".
Peker, Arkadiy Microsemi Corporation	Response Response Status C
Comment Type TR Comment Status A	ACCEPT IN PRINCIPLE.
In the text "temp_var_pri A variable used to store the value of the state variable pd_class_sig_pri for the Primary Alternative. " it is not clear that temp_var_pri store the previous result of pd_class_sig_pri. Otherwise there is no meaning to compare between those two in the state machine.	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."
SuggestedRemedy	Same fix for tcev_timer_sec.
 Change to "temp_var_pri A variable used to store the previous value of the state variable pd_class_sig_pri for the Primary Alternative. " Repeat (2) for the secondary. 	This resolution is identical to comment #160.
Response Response Status C	
ACCEPT IN PRINCIPLE.	
Combining with change from comment 158.	
 Change to "temp_var_pri A variable used to store the previous value of the variable pd_class_sig_pri for the Primary Alternative. " Repeat (2) for the secondary. 	

Pa **127** Li **48**

C/ 145 SC 145.2.5.5 /seboodt, Lennart	P 127 I Philips Lighting	L 48 #	r01-160	<i>Cl</i> 145 Darshan, Yai	SC 145.2.5.5 r	5 P127	L 51	# r01-419	
Comment Type TR Commen	t Status A		PSE SD	Comment Ty	pe T	Comment Status A		PSE SL	
tcev_timer_pri: "A timer used to limit Event classification on the Primary				Error in t SuggestedRe		_sec definition - the timer is	relevant also to 3	Brd class event.	
That should be 'second through fou SuggestedRemedy Change to: "A timer used to limit the Event classification on the Primary Same fix for tcev_timer_sec. Response Response	e second through fourt		to " A tim <i>Response</i> ACCEPT Change	er used to lim IN PRINCIPL	used to limit the second and it the second through fourth <i>Response Status</i> C .E. ed to limit the second through the Primary Alternative; sec	E". gh fourth class ev			
ACCEPT.				Same fix	for tcev_time	r_sec.			
C/ 145 SC 145.2.5.5 Stewart, Heath	P127 L Analog Devices Inc.		r01-337			ical to comment #160.		# 04.404	
	t Status A		PSE SD	Yseboodt, Le Comment Ty	pe ER	F 128 Philips Light Comment Status A	L 14 ing	# <u>r01-161</u> Editoria	
A timer used to limit the second and SuggestedRemedy Change line 47 and line 51 second and fourth to second through fourth		TOPIC:SIGNATURE These comments fix inconsistencies in the word 'signature'. When referring to detection, we should talk about "PD detection signature". When referring to signature configuration, we should either say "single-signature PD, dua signature PD, or PD signature configuration". The draft contains 12 instances of the ambiguous "PD signature".							
Response Response Response	Status C			tdbo_timer: "A timer used to regulate backoff upon detection of an invalid signature; see T dbo in Table 145-16."					
Change to: "A timer used to limit the Event classification on the Primary			SuggestedRemedy Change as follows: "A timer used to regulate backoff upon detection of an invalid **detection** signature; see dbo in Table 145-16."						
Same fix for tcev_timer_sec.				Response		Response Status C			

Pa **128** Li **14**

C/ 145 SC 145.2.5.4 Stover, David	P 128 Analog Device	L 43 es Inc.	# <u>r01-381</u>	C/ 145 Darshan, Y	SC 145.2.5.6 air	6 P 129	L 18	# r01-421
Comment Type ER tinrush_timer_sec refere	Comment Status A nces "Tinrush-2P", which no	o longer exists.	Editorial		nction do_class_	<i>Comment Status</i> D _probe_pri doesnOt return a		PSE SD ode (we have it only if
SuggestedRemedy Change "Tinrush-2P" to Response	"Tinrush". <i>Response Status</i> C			Option Option the inp	A: To add outpu B (preferred) : 1 ut to the IDLE_F	es). We can fix it in two way ut for the function do_class_ Fo add new variable class_e PRI state in page 141. r the secondary as well.	_probe_pri such a	
ACCEPT.				Suggested	Remedy			
Cl 145 SC 145.2.5.6 P 129 L 18 # [r01-420] Darshan, Yair Comment Type T Comment Status D PSE SD 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 Option B (Preferred) : To add new variable class_error to the variable list and add it to the input to the IDLE state in page 135. Comment Status D Comment Status D					error_pri ble indicating if : : No invalid clas Invalid class re nge the input co (pse_reset_pri + (pse_reset_pri +	ss_error_pri to the variable during do_class_probe_pri ss result was detected. esult was detected. ndition to IDLE in page 141 + error_condition_pri + iclas + error_condition_pri + iclas lution for the secondary.	function, invalid c from: s_lim_det_pri)	
class_error	e_error to the variable list: uring do_class_probe function	on, invalid class	result was detected.	Proposed F REJEC	Response CT.	Response Status Z	nter.	
FALSE: No invalid class TRUE: Invalid class res 2. Change the input cond (pse_enable = enable) * To:		+ error_conditi	,	C/ 145 Stewart, He Comment T This fu	Гуре Е	<i>P</i> 130 Analog Dev <i>Comment Status</i> A rs. Should be function in the		# <u>r01-338</u> Editorial
Proposed Response Response Status Z REJECT. This comment was WITHDRAWN by the commenter.					Remedy e nctions discover nction discovers			
				Response ACCEF	PT.	Response Status C		

Pa **130** Li **1**

C/ 145 SC 145.2.5.6 P130 Darshan, Yair	L 3	# r01-422	C/ 145 Yseboodt, L	SC 145.2.5.0	5	P 130 Philips Lightir	L 6 ng	#	r01-162
Comment Type T Comment Status D		PSE SD	Comment 7	ype ER	Comment	t Status A			Editoria
Inconsistent information between option_class_pr do_class_probe function on page 130 line 3. option_class_probe description indicates that PSE determine the PD requested class where do_class PSE will issue a number of class events limited to For determine the PD requested power the PSE n not any number limited by 3.	This va A doub	riable is also de le definition nee l be better simp	efined in the v	s the variable po ariables section in perfect sync the variable thar	or it can lead to		ty.		
SuggestedRemedy Change page 130 line 3from:				e line 6-15 on p pwr: See 'pd_		45.2.5.4."			
"This functions discovers the PD requested Class The class events produced are limited to CLASS_ in CLASS_EV1_LCE may be replaced with the tcl	EV1_LCE to MAI	RK_EV3. The tlce_timer	Response ACCEF	T IN PRINCIP	Response _E.	Status C			
timing duration. This function returns the following To:			Replace line 6-15 on page 130 by: "pd_req_pwr: See 'pd_req_pwr' in 145.2.5.4."						
OThis functions discovers the PD requested Clas events produced are limited to CLASS_EV1_LCE CLASS_EV1_LCE may be replaced with the tcle2 durationO	to MARK_EV3. 1	The tlce_timer in	change variable	_	_probe" on pa	age 123, line 15	to "do_class_p	orobe also	returns this
Proposed Response Response Status Z REJECT.									
This comment was WITHDRAWN by the commer	nter.								

This comment was withdrawn prior to the start of comment resolution.

Pa **130** Li 6

C/ 145	SC	145.2.5.6	P130	L 21	# r01-163	C/ 145	SC 1	145.2.5.4	P 131	L 35	# r01-382
Yseboodt	, Lenna	rt	Philips Lightir	ng		Stover, Dav	vid		Analog Devices	Inc.	
Comment	t Type	ER	Comment Status A		Editorial	Comment	Гуре	Е	Comment Status A		PSE S
do_cl A dou	assifica ıble defi	tion_pri.	probe_pri returns the variab Is to be kept in perfect sync / to point to the variable tha	or it can lead to	o ambiguity.	and a v	/alue of t Table	i 3 for anÿ 145-27, w	d_class_sig_pri will have a va subsequent class events.)" flo hich indicates class_sig_a and	ating next to	pd_req_pwr_pri = 5. We
		• •				Suggested	-	•			
		t, the defini other does	tions of pd_req_pwr_pri in b	oth functions ha	as drifted apart (one has	_	floating	g comment	t (2 locations: do_classificatior	n_pri and do	_classification_sec).
	,		110t <i>)</i> .			Response			Response Status C		
00	<i>gestedRemedy</i> Replace lines 21 to 28 on page 130 with:						PT IN P	RINCIPLE			
"pd_r	Replace lines 21 to 28 on page 130 with: "pd_req_pwr_pri: See 'pd_req_pwr_pri' in the function do_classification defined in 145.2.5.6."								e and also in do_classification	_sec.	
C =			n and in dat alara ifiantian a			This re	solutior	n is identic	al to comment #165.		
		pa_req_pw	r_sec in do_classification_s	ec.		C/ 145	SC 1	145.2.5.6	P 131	L 35	# r01-165
Response			Response Status C			Yseboodt,	Lennart	t	Philips Lighting		
ACCE	=PT IN I	PRINCIPLI	Ξ.			Comment	Tvne	ER	Comment Status A		Editor
	eq_pwr_		on page 130 with: d_req_pwr_pri' in the functi	on do_classifica	ation_pri defined in	In do_classification_pri, variable pd_req_pwr_pri, value 5 is decribed as: "5: Class 5 (pd_class_sig_pri will have a value of 4 for the first two class events and a value of 3 for any subsequent class events.)"					
Same	e fix for	pd_req_pw	r_sec in do_classification_s	ec.		We ha	ve remo	oved this d	lescription everywhere else, th	nis is a leftov	ver.
C/ 145	SC	145.2.5.6	P130	L 30	# r01-164	Suggested	Remed	y			
Yseboodt	, Lenna	rt	Philips Lightir	ng		Remov	e quote	ed text her	e and also in do_classification	_sec.	
Comment	t Tvpe	ER	Comment Status A		Editorial	Response			Response Status C		
The fu	unction	do_class_	probe_pri returns the variab ined in the variables section	le pd_cls_4PID_ 145.2.5.4.		ACCE	PT.				
			Is to be kept in perfect sync / to point to the variable tha		o ambiguity.						
Suggeste	dReme	dy									
			age 130 by: pd_cls_4PID_pri' in 145.2.5	.4."							
Same	e fix for	do_class_p	probe_sec.								
Response			– Response Status C								
, ACCE			,								

ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Page, Line Pa **131** Li **35**

C/ 145 SC 145.2.5.6 P132 L43 # r01-166	C/ 145 SC 145.2.5.6 P133 L5 # r01-167
Yseboodt, Lennart Philips Lighting Comment Type ER Comment Status A Editorial TOPIC:SIGNATURE These comments fix inconsistencies in the word 'signature'. When referring to detection, we should talk about "PD detection signature". When referring to signature configuration, we should either say "single-signature PD, dual-signature PD, or PD signature configuration". The draft contains 12 instances of the ambiguous "PD signature". "sig_type: This variable indicates the Type of PD signature connected to the PI, with respect to 4-pair operation." and "invalid: Neither a single-signature PD nor a dual-signature PD connection check signature has been found. This includes an open circuit condition."	Yseboodt, Lennart Philips Lighting Comment Type ER Comment Status A Editorial TOPIC:SIGNATURE These comments fix inconsistencies in the word 'signature'. When referring to detection, we should talk about "PD detection signature". When referring to signature configuration, we should either say "single-signature PD, dual-signature PD, or PD signature configuration". The draft contains 12 instances of the ambiguous "PD signature". There are inconsistencies in the way the values for do_detect_pri/sec are described: "- open_circuit: The PSE has detected an open circuit. - valid: The PSE has detected a valid PD signature. - invalid: Neither open circuit nor valid PD detection signature has been found." SuggestedRemedy
SuggestedRemedy Replace by: "sig_type: This variable indicates the Type of PD signature **configuration** connected to the PI, with respect to 4-pair operation." "invalid: Neither a single-signature nor a dual-signature signature configuration has been found. This includes an open circuit condition." Response Response Status C ACCEPT.	Replace by: "- open_circuit: The PSE has detected an open circuit. - valid: The PSE has detected a valid PD **detection** signature. - invalid: Neither **an** open circuit nor **a** valid PD detection signature has been found." Apply the same fix for do_detect_sec. Response Response Status C ACCEPT.
C/ 145 SC 145.2.5.4 P 132 L 51 # r01-383 Stover, David Analog Devices Inc. #	C/ 145 SC 145.2.5.6 P 133 L 25 # [r01-168] Yseboodt, Lennart Philips Lighting Philips Lighting Philips Lighting Philips Lighting
Comment Type E Comment Status A Editorial Bad alignment of "the PI." in definition of sig_type = dual. SuggestedRemedy Fix alignment SuggestedRemedy Fix alignment C Response Response Status C ACCEPT.	Comment Type ER Comment Status A Editorial The function do_update_pse_allocated_pwr returns the variable pse_allocated_pwr. This variable is also defined in the variables section 145.2.5.4. Editorial A double definition needs to be kept in perfect sync or it can lead to ambiguity. It would be better simply to point to the variable than re-describe it. SuggestedRemedy Replace line 29-38 by: "pse_allocated_pwr: See 'pse_allocated_pwr' in 145.2.5.4." Response Response Response Status C ACCEPT. C

Pa **133** Li **25**

C/ 145 SC 145.2.5.6	P133	L 43	# r01-169	C/ 145 S	C 145.2.5.7	P135	L 6	# <u>r01-171</u>
Yseboodt, Lennart	Philips Lighting			Yseboodt, Lenr	art	Philips Lighting		
Comment Type ER	Comment Status A		Editorial	Comment Type	TR	Comment Status A		PSE SI
This variable is also retu A double definition need	_pse_allocated_pwr_pri return irned by the do_classification_ ls to be kept in perfect sync or <i>i</i> to point to the variable than re	pri function. it can lead to		diagram. For dual-sig While pd_4 should set	nature the v pair_cand is t correctly to	PID and pd_4pair_cand are inv value is set, however for single never referenced by the sing match with the 4PID text in o be False when a single-sig is	e-signature it e-sig state d 145.2.6.7. Th	' is not. iagram (it is implicit), we e current state diagram
Replace line 29-38 on p "pse_allocated_pwr_pri: do_classification_pri de	See 'pse_allocated_pwr_pri' r	eturned by th	e function	diagrams s	uch that the	s that another comment will m y no longer continuously exect od_4pair_cand to be False in s	ute the ENTF	
Same fix for pse_allocation	ted_pwr_sec.			SuggestedRem	edy			
Response ACCEPT.	Response Status C			- add the fo "IF (pse_alt				
C/ 145 SC 145.2.5.7	P 135	L 6	# r01-170	END"				
Yseboodt, Lennart	Philips Lighting			Response		Response Status C		
Comment Type TR	Comment Status A		PSE SD		N PRINCIPL	, Е.		
	ole of variables / timers in the l m as indicated by simulation. following statements:	DLE state to	allow multiple passes	The only wa but that me Make the fo - add "pd_4 - add the fo "IF (sig_typ	ay to get to (aning is kind blowing chai pair_cand = llowing to C e = single) 1	False" to IDLE LASSIFICATION THEN	tate diagram	
Response	Response Status C			pd_4pair END"	_cand = Tru	e		
ACCEPT IN PRINCIPLE Add in state "IDLE" the "stop tcc2det_timer" "stop tdet2det_timer"				END				
"sig_pri = invalid" "sig_sec = invalid"								

Pa **135** Li **6**

C/ 145 SC 145.2.5.7 Yseboodt, Lennart	P 135 Philips Lightin	L 13 ng	# r01-172	C/ 145 Yseboodt, Le	SC 145.2.5.7	P 136 Philips Lighting	L 36	# <u>r01-173</u>	
alt_pri.	Comment Status A i = user defined". The value		Pres: Yseboodt6 s not a valid value for	Comment Ty There ar SuggestedR	e spaces befor	Comment Status A e "(det_temp="		Editoria	
	e in the state diagram where describe that this variable m		by the "user".		spaces.				
SuggestedRemedy Remove this ELSE stat	ement.			Response ACCEP ⁻	r	Response Status C			
	outside' of the state diagram	, and use of this	variable will be clarified	C/ 145	SC 145.2.5.7	P137	L 33	# r01-174	
Response	Response Status C			Yseboodt, Le	ennart	Philips Lighting	g		
ACCEPT IN PRINCIPL	Ε.			Comment Ty	vpe TR	Comment Status A		PSE SL	
Remove this ELSE stat	ement.			There is If:	a cornercase b	oug in single-signature classifi	ication.		
Cl 145 SC 145.2.5.7 Darshan, Yair	P 135	L 33	# r01-423	- optior	_2ev = True (F	or b (so, 2-pair PSE) PSE only wants to do 2 class of 4 (a bit strange, but it is an a			
((do_detect_pri_done	Comment Type T Comment Status D PSE SD The condition from START_DETECT to DETECT_EVAL "!tdet_timer_done * ((do_detect_pri_done * ((det_temp = only_one) + (pse_alternative both))) + (do_detect_sec_done * (pse_alternative = both) * (det_temp = both_neither))) +					nch logic out of CLASS_EV2 on_2ev is set.		makes a third class	
	edundant parenthesis that m					uld reset allocated power to z	ero in IDLE.		
	of the condition with letters w			SuggestedR	•		_		
locations. No if we remove them,	hesis where replaced with re	also the priority		- Change logic from CLASS_EV2 to MARK_EV_LAST to: "tcev_timer_done * option_2ev * ((pse_avail_pwr = 4) + (pse_alternative != both)) * (pd_class_sig = 4)"					
	simplified and easy to read (G) that can be implement or		ndition		- ,				
SuggestedRemedy				 Change logic from CLASS_EV2 to MARK_EV2 to: "tcev_timer_done * (pd_class_sig = 4) * (((pse_avail_pwr > 4) * (pse_alternative = both)) !option 2ev)" 					
	er_done * e * ((det_temp = only_one (pse_alternative = both) * (d			- Add to "pse_all	IDLE pcated_pwr = 0	'n			
· – – –	* ((det_temp = only_one) (pse_alternative = both) * (de			Response ACCEP	г.	Response Status C			
Proposed Response	Response Status Z		/ /						
REJECT.									
This comment was WIT	HDRAWN by the commenter	er.							
The comment was with	drawn before the prior to the	start of comme	ent resolution.						

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

Pa **137** Li **33** Page 58 of 130 12/1/2017 3:17:48 PM

C/ 145 SC 145.2.5.7 P137 L 45 # r01-425 Darshan, Yair	Cl 145 SC 145.2.5.7 P137 L 45 # r01-424 Darshan, Yair
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))	Comment TypeTComment StatusRPSE SDThis comment is marked GIL_1. In the exit from CLASS_EV3 to MARK_EV3 we have the following condition: tcev_timer_done * (pse_alternative = both) * (pd_class_sig 4) * (pse_avail_pwr > 4) * ((pd_class_sig = 0) + (pse_avail_pwr > 5))PSE SD
The part (pse_avail_pwr > 4) * ((pd_class_sig = 0) + (pse_avail_pwr > 5)) is logically identical to: (pse_avail_pwr > 4)* (pd_class_sig = 0)+(pse_avail_pwr > 4)*(pse_avail_pwr > 5) which mean: (X>4)*(X>5) which is X>5.	The part (pse_avail_pwr > 4) * ((pd_class_sig = 0) + (pse_avail_pwr > 5)) is logically identical to: (pse_avail_pwr > 4)* (pd_class_sig = 0)+(pse_avail_pwr > 4)*(pse_avail_pwr > 5) Few issues: 1) The part: (pse_avail_pwr > 4)*(pse_avail_pwr > 5) has the same meaning as (page_avail_pwr = 5) reputting with logping only (page_avail_pwr = 5)
SuggestedRemedy Change from: tcev_timer_done * (pse_alternative = both) * (pd_class_sig != 4) * (pse_avail_pwr > 4) * ((pd_class_sig = 0) + (pse_avail_pwr > 5)) to: tcev_timer_done * (pse_alternative = both) * (pd_class_sig != 4) * ((pse_avail_pwr > 4) * (pd_class_sig = 0) + (pse_avail_pwr > 5))	 (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
Response Response Status C ACCEPT IN PRINCIPLE. C Change from: tcev_timer_done * (pse_alternative = both) * (pd_class_sig != 4) * (pse_avail_pwr > 4) * ((pd_class_sig = 0) + (pse_avail_pwr > 5))	SuggestedRemedy change from: tcev_timer_done * (pse_alternative = both) * (pd_class_sig 4) * (pse_avail_pwr > 4) * ((pd_class_sig = 0) + (pse_avail_pwr > 5)) To: tcev_timer_done * (pse_alternative = both) * (pd_class_sig 4) * (pse_avail_pwr >= 5)
to: tcev_timer_done * (pse_alternative = both) * (pd_class_sig != 4) * (((pse_avail_pwr = 5) * (pd_class_sig = 0)) + (pse_avail_pwr > 5))	Response Response Status C REJECT.
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)))	These are not equivalent. The current logic only allows the PSE to proceed to MARK_EV3 when pse_avil_pwr = 5 if pd_class_sig = 0. In other words, the if the PSE only has 45W available, it can only proceed to MARK_EV3 if the PD is asking for 45W (pd equivalent).
	The suggested logic allows the DSE to move to MARK EV/3 whenever it has 15W available

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.

Pa **137** Li **45**

		· · · ·			
C/ 145 SC 145.2.5.7 P 138 L 3 # r01- RAN, ADEE Intel Corporation	C/ 145 SC 145.2.5.7 P138 Darshan, Yair	L 45 # r01-426			
Comment Type T Comment Status A	orial Comment Type T Comment Status A	PSE SD			
 This diagram uses an empty pentagon to denote a transition from a state on anoth where the "to" arrows include the state name. This notation does not have precedence in other state diagrams (according to a not thorough search). The corresponding state diagram in clause 33 uses letters inside pentagons for boand "to" directions. This is the common convention in other clauses I know. Introducing a new graphical convention without explanation is may be confusing for This also applies to the Single-signature PD state diagram in 145.3.3.7. SuggestedRemedy Revert to the common convention of including the same identifier in both "from" ar 	Comment Type T Comment Status A PSE S 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)) +				
pentagons (using state names instead of single letters is okay). Alternatively, add text in the "conventions" subclause to describe this new convent	ACCEPT.				
Response Response Status C ACCEPT IN PRINCIPLE.	C/ 145 SC 145.2.5.7 P 139 Darshan, Yair	L 33 # r01-427			
Append to 145.2.5.2 as follows: "State diagrams may span over multiple pages. Arcs between states located on a page within the same state diagram are drawn using a label containing the destina state's name at the originating state. An empty label is used at the destination stat indicate that there exists an entry, or entries, from another state."	Comment Type T Comment Status D This comment is marked AVI_1. In the exit from POWER_ON to SEMI_PWRON_SE be accurate since this signal is set prior to inrush whe inrush successfully. So it is recommended to replace the signal alt_pwrot signal indicates that the alternative is delivering pow SuggestedRemedy Replace the signal alt_pwrd_sec with pwr_app_sec Proposed Response Response Status	hile pwr_app_sec also address passing d_sec with pwr_app_sec because this			
	REJECT. Response Status Z				

This comment was WITHDRAWN by the commenter.

Pa **139** Li **33**

Comment Type T Comment in the exit from POWER_ON to EI accurate (but it is good enugh in th is better to change it too) since thi address passing inrush successful SuggestedRemedy	ent Status D RROR_DELAY, the usage of alt_ his case, however for consistency	PSE SD				
SuggestedRemedy	is signal is set prior to inrush while	with comment AVI_1, it	Comment Type E The states SEMI_PW SuggestedRemedy To aligned both rectar	Comment Status A RON_PRI have unaligned re ngular.	ectangles.	Edtiorial
Replace the signal alt_pwrd_sec v	with pwr_app_sec.		Response ACCEPT IN PRINCIP	Response Status C LE.		
Proposed Response Respons REJECT.	se Status Z		Redraw state and corr	rect variable name.		
This comment was WITHDRAWN	I by the commenter		This resolution is iden	tical to comment #175.		
Cl 145 SC 145.2.5.7 Yseboodt, Lennart	P140 L5 Philips Lighting	# r01-175	C/ 145 SC 145.2.5. Stover, David	7 P140 Analog Devi	L 5 ces Inc.	# r01-387
Comment Type E Comme State "SEMI_PWRON_PRI" and " For this reason the variable name completely.			SuggestedRemedy	Comment Status A off between SEMI_PWRON_ -" to "!power_available"	PRI and POWE	Editorial R_DENIED
SuggestedRemedy Redraw state and correct variable	name.		Response ACCEPT IN PRINCIP	Response Status C LE.		
Response Respons ACCEPT.	se Status C		Redraw state and corr	rect variable name.		
	P140 L5	# r01-176	This resolution is iden	tical to comment #175.		
Yseboodt, Lennart	Philips Lighting	Editorial	Cl 145 SC 145.2.5. Stover, David	7 P140 Analog Devi	L 5 ces Inc.	# r01-386
The semi-independent PSE state which SISM machine they are par	diagrams' states all end on "_PRI rt of.	" or "_SEC" to denote	Comment Type E SEMI_PWRON_X sta	Comment Status A tes have an unusual format.		Editorial
The states SEMI_PWRON_PRI a part of the top level state diagram.		xception to this, being	SuggestedRemedy Adjust state title width	to match state contents for	SEMI_PWRON_I	PRI, _SEC states.
SuggestedRemedy - Rename SEMI_PWRON_PRI to - Rename SEMI_PWRON_SEC to			Response ACCEPT IN PRINCIP	Response Status C LE.		
(don't forget the label on page 139	Ə!)		Redraw state and corr	ect variable name.		
Response Respons ACCEPT.	se Status C		This resolution is iden	tical to comment #175.		

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Pa
 140
 Page 61 of 130

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 Li
 5
 12/1/2017 3:17:48 PM

 SORT ORDER: Page, Line
 Page 61 of 130
 12/1/2017 3:17:48 PM
 140
 140
 140

Darshan, Yair Editorial Comment Type E Comment Status A Editorial The text of the condition of the exit from SEMI_POWER_PRI to POWER_DENIDE is truncated. SuggestedRemedy Fix it to error_pri * !power_available Response Response Status C ACCEPT IN PRINCIPLE. Redraw state and correct variable name. Editorial Editorial	Cl 145 SC 145.2.5.7 P 141 L 7 # r01-177 Yseboodt, Lennart Philips Lighting Philips Lighting Comment Type T Comment Status A Pres: Yseboodt State "ENTRY_PRI" and state "ENTRY_SEC" are evaluated constantly when sism is false. This corrupts the "sig_pri" assignment of a single signature pd detection. Also variable "pd_4pair_cand" is constantly set to False. SuggestedRemedy Adopt "yseboodt_03_1117_psesdconcur.pdf". Response Response Status C
The text of the condition of the exit from SEMI_POWER_PRI to POWER_DENIDE is truncated. SuggestedRemedy Fix it to error_pri * !power_available Response Response Status C ACCEPT IN PRINCIPLE. Redraw state and correct variable name.	State "ENTRY_PRI" and state "ENTRY_SEC" are evaluated constantly when sism is false. This corrupts the "sig_pri" assignment of a single signature pd detection. Also variable "pd_4pair_cand" is constantly set to False. SuggestedRemedy Adopt "yseboodt_03_1117_psesdconcur.pdf". Response Response Status C
This resolution is identical to comment #175.	ACCEPT IN PRINCIPLE. adopt changes in http://www.ieee802.org/3/bt/public/nov17/yseboodt_03_0117_final.pdf
Cl 145 SC 145.2.5.7 P140 L16 # r01-431 Darshan, Yair Comment Type E Comment Status A Editorial Comment Type E Comment Status A Editorial The states SEMI_PWRON_SEC have unaligned rectangles. SuggestedRemedy To aligned both rectangular. Response Response Status C ACCEPT IN PRINCIPLE. Redraw state and correct variable name. This resolution is identical to comment #175.	[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_03_1117_final.pdf]

Pa **141** Li **7**

Cl 145 SC 1 Darshan, Yair	45.2.5.7	P141	L 8	# r01-432	C/ 145 Darshan, Y		145.2.5.7	P141	L 12	# r01-433
Darshan, Yair Comment Type T Comment Status A Pres: Yseboodt3 we need to set the sig_pri and sig_sec to FALSE in the top level state machine at IDLE state otherwise, we will have cross issues between two state machines parts. Analysis: When a single-signature is connected, ENTRY_PRI is processed continuously because "!sism" is TRUE which sets sig_pri to 'invalid' continuously, which breaks the main state diagram. Same happen in the secondary. To resolve it, we need to set the sig_pri and sig_sec to FALSE in the top state machine at idle state. This will also reset the signals for the single signature state machine, something that is not happening currently. SuggestedRemedy				Darshan, Yair 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 START_CXN_CHK_DETECT in page 135 line 47.						
Add the followin sig_pri <==FA sig_sec <== FA	LŠE	ments to the IDLE state in p	bage 135 line 7	.:	2. Mov 47 Response		_start_sec	<== TRUE" to state START	_CXN_CHK_DE	ETECT in page 135 line
Add in state "IE "stop tcc2det_t "stop tdet2det_ "sig_pri = invali	5_				ACCEPT IN PRINCIPLE. adopt changes in http://www.ieee802.org/3/bt/public/nov17/yseboodt_03_0117_final.pc This resolution is identical to comment #177. [Editor's note added after comment resolution completed:					dt_03_0117_final.pdf
This resolution	is identica	al to comment #170.						e name. The file used is B/bt/public/nov17/yseboodt_	.03_1117_final.p	odf]

Pa **141** Li **12**

C/ 145	SC 145.2.5.		L3	# r01-313	C/ 145	SC 145.2	2.5.7	P142	L 6	# r01-312		
Peker, A	rkadiy	Microsemi	Corporation		Peker, Arka	adiy		Microsemi	Corporation			
Commer	nt Type TR	Comment Status A		PSE SD	Comment T	Type TR		Comment Status A		Pres: Darshan3		
It is r dual- a) W powe b) th the ie The	not clear why we -signature and for /hat if the availal er >4 for the seco- le usage of option- dentical. refore, the option-	_class_probe for single-sig _class_probe need to be se	es: primary alternativ nature and dual-s parate for primar	e and the available signature is not exactly y and secondary like in	Wrong CLASS pse_av option_ dual-sig	and imposs S_PROBE_F /ail_pwr_pri _class_probe gnature part S_PROBE_F	ible log PRI to l < 4 pe e defin of the	CLASS_PROB_PRI_1. gic of pse_avail_pwr_pri IDLE_PRI if the input to r the current option_class ition is good for single-s . PSE state machine per t logics.	CLASS_PROBE ss_probe definition ignature PD but c	_PRI is only allowed for n. The annot be used in the		
,	•	n the spec for dual-signatur	e that deals with	class and power.		-	CLASS	SIFICATION_PRI to CLA	SS_PROBE_PR	I, replace		
Adop both CLA Respons ACC	ggestedRemedy Adopt the propose remedy to the comment marked CLASS_PROB_PRI_1. [It resolves both comment marked CLASS_PROB_PRI_1 and comment is marked CLASS_PROB_PRI_2.] sponse Response Status CCEPT IN PRINCIPLE. Adopt http://www.ieee802.org/3/bt/public/nov17/darshan_03_117_final.pdf					option_class_probe with option_class_probe_pri. 2. 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 Prima Alternative by issuing 3 class events. When set to TRUE, the PSE will issue 3 class even to determine the PD requested Class, perform a classification reset by applying VReset f at least TReset to the PI (see Table 145-14), followed by a normal classification procedur Values: FALSE: The PSE will not probe for the PD requested Class.						
This	resolution is iden	tical to comment #434.						for the PD requested Cla r the secondary.				
[Edit	or's note added a	fter comment resolution co	mpleted:		Response ACCEF	PT IN PRINO		Response Status C				
	There is a typo in the file name. The http://www.ieee802.org/3/bt/public/n		ne. The file used is public/nov17/darshan_03_1117_final.pdf]				Adopt http://www.ieee802.org/3/bt/public/nov17/darshan_03_117_final.pdf					
					This resolution is identical to comment #434.							
					[Editor'	's note adde	d after	comment resolution co	mpleted:			
					Thorai	ia a turna in t	ha fila	nome. The file used is				

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]

Pa **142** Li **6**

TYPE: TR/technical required ER/editorial required GR/gener	al required T/technical E/editorial G/general	Pa 143	Page 65 of 130
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	Li 10	12/1/2017 3:17:48 PM
SORT ORDER: Page, Line			

This resolution is identical to comment #434.	C/ 145 SC 145.2.5.7 P 144 L 10 # r01-484 Darshan, Yair				
[Editor's note added after comment resolution completed:	Comment Type T Comment Status A Pres: Darshan3				
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]	This is similar ot 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.				
Cl 145 SC 145.2.5.7 P143 L22 # r01-391 Stover, David Analog Devices Inc. Comment Type TR Comment Status A Pres: Stover2 **** Comment submitted with the file 94876300003-stover_02_1117.pdf attached *** "In PSE dual-sig class diagrams, CLASS_EV1_LCE_4PID_X states check for ""pd_class_sig_x = 4"" as a double-check that PD class_ev1 response has not changed between class reset events. Now that class_probe dumps into this state, pd_class_sig_x could have been any valid class_sig (not just 4). To fix: 1) ensure that pd_class_sig_x from class_ev1 is recorded to temp_var_x in all cases, and, 2) compare temp_var_x to pd_class_sig_x when exiting state CLASS_EV1_LCE_4PID_X." SuggestedRemedy SuggestedRemedy	SuggestedRemedy 1. Change the exit from CLASS_EVAL_PRI to POWER_DENIED_PRI from: !ted_timer_pri_done + !ted_timer_done + (pd_req_pwr_pri > pse_avail_pwr_pri) + (!pd_4pair_cand * alt_pwrd_sec) To: !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) 2. Change the exit from CLASS_EVAL_PRI to POWER_UP_PRI from: ted_timer_pri_done * ted_timer_done * (pd_req_pwr_pri <= pse_avail_pwr_pri) * (pd_4pair_cand + !alt_pwrd_sec) To: ted_timer_pri_done * ted_timer_done * ((pd_4pair_cand + !alt_pwrd_sec) + (pd_req_pwr_pri 0) * (pd_req_pwr_pri <= pse_avail_pwr_pri) + (pse_avail_pwr_pri > 2))				
Adopt stover_02_1117.pdf	Response Response Status C				
Response Response Status W ACCEPT IN PRINCIPLE.	ACCEPT IN PRINCIPLE. Adopt http://www.ieee802.org/3/bt/public/nov17/darshan_03_117_final.pdf				
Adopt http://www.ieee802.org/3/bt/public/nov17/darshan_03_117_final.pdf	This resolution is identical to comment #434.				
This resolution is identical to comment #434.	[Editor's note added after comment resolution completed:				
[Editor's note added after comment resolution completed:	There is a typo in the file name. The file used is				
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]	http://www.ieee802.org/3/bt/public/nov17/darshan_03_1117_final.pdf]				

Pa **144** Li **10**

Cl 145 SC 145.2.5.7 P144 L 10 # r01-435 Darshan, Yair	Cl 145 SC 145.2.5.7 P 145 L 7 # r01-436 Darshan, Yair					
Comment Type T Comment Status A PSE SD The exits from CLASS_EVAL_PRI to POWER_DENIGED_PRI and POWER_UP_PRI doesn't contain the logics for power demotion. PSE SD	Comment Type T Comment Status A PSE SD This comment marked as AVI5. In CC_DET_SEQ=3 and CC_DET_SEQ=2 the state machine can allow the secondary pair to a particular distance was available but arises to fail a place/fination					
<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) 2. Change the exit from CLASS_EVAL_PRI to POWER_UP_PRI from: ted_timer_pri_done * ted_timer_done * (pd_req_pwr_pri ?? Pse_avail_pwr_pri) * (pd_4pair_cand + !alt_pwrd_sec) To: </pre>	to power up (pri signature was valid) but primary fails in classification. (Details: If sig_pri=valid and primary fails classification, it goes to IDLE_PRI. There is nothing in IDLE_PRI that resets sig_pri to invalid. Now secondary has valid detection and classification and powerup. If our intention is to not allow powering the secondary if primary fails to power up, then we need to add sig_pri=invalid to IDLE_PRI state. Adding sig_pri<==invalid and sig_sec<==invalid in the IDLE_PRI and IDLE_SEC will resolve this issue. In addition, the lack of resetting sig_pri and sig_sec cause additional issues in simulations that are covered in other comments. See simulation results if needed in darshan_06_1117.pdf. SuggestedRemedy 1. Add sig_pri<==invalid in the IDLE_PRI. 2. Add sig_sec<==invalid in the IDLE_SEC.					
ted_timer_pri_done * ted_timer_done * ((pd_4pair_cand + !alt_pwrd_sec) + (pd_req_pwr_pri 0) * (pd_req_pwr_pri ?? Pse_avail_pwr_pri) + (pse_avail_pwr_pri > 2)) <i>Response</i> 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:	Response Response Status C ACCEPT.					

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]

Pa **145** Li **7**

		IEI	EE P802.3bt	D3.1 4-Pair PoE 1st S	ponsor recir	culation ballo	t comments		
C/ 145 SC 14 Stewart, Heath	45.2.5.7	P 145 Analog Device	L 10 s Inc.	# r01-365	<i>Cl</i> 145 Darshan, Ya	SC 145.2.5.7 air	P145	L 22	# r01-438
51		Comment Status A h the file 94875900003-st	ewart_04_1117	Pres: Darshan3 7.pdf attached ***	Comment 7 Missing	51	Comment Status A CC_DET_SEQ=0 + CC_DE	T_SEQ=1	Editorial
not account for correctly refere pd_req_pwr_xx limit of the PSE	r the updated ences pse_al kx variable is Es ability to k	ge of pd_req_pwr_pri in 0 I usage of pse_allocated_ located_pwr to decide if e intended to communicate now that information. _EVAL_PRI/SEC exit arcs	pwr_xxx. The n enough power e e how much the	nain PSE state diagram exists to turn on PD. The e PD requested, to the	Suggested Change Response ACCEF	e to (CC_DET_S	SEQ=0) + (CC_DET_SEQ=1 Response Status C)	
The description The Class 0 en	n of pd_req_ ncoding need	owr_pri/sec need to be up Is to be removed from the	dated to corrected to corrected by do_class_prot	ctly describe the usage. be_pri/sec return	C/ 145 Darshan, Ya	SC 145.2.5.7 air	P145	L 30	# r01-439
variable enumeration since it is not a legal return value (see do_classification_pri/sec.) SuggestedRemedy See stewart_04_1117.pdf 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.				Comment Type T Comment Status A PSE This comment marked as AVI6. Similar setup as in AVI5, we get also the following issue: in CC_DET_SEQ=2 the secondary pair will do 2 loops of detection classification before going to wait state. This problem was not exist in D3.0 and no we have it due to the changes made by http://www.ieee802.org/3/bt/public/sep17/stewart_02_0917_final.pdf or page 5 when we remove (CC_DET_SEQ=3) and (CC_DET_SEQ NE 3) from the exits of IDLE_SEC. Now the assignment det_once_sec=TRUE is not exists if we came from ENTRY_SEC to DETECT_EVAL_SEC as a result we have now the above issue. See simulation results if needed in darshan_06_1117.pdf.					
There is a typo	in the file na	omment resolution compl ame. The file used is /public/nov17/darshan_03		lf]	Response	DETECT_EVAL	_SEC the condition det_one Response Status C	e_sec=TRUE.	
Darshan, Yair Comment Type Missing parenth	hesis in CC_	P145 Comment Status A DET_SEQ=0 + CC_DET	L 15 _SEQ=1	# [<u>r01-437</u> Editorial	Add to	s note added af	E. _SEC the condition det_ond ter comment resolution com signment, so "det_once_sed	pleted:	been added]
SuggestedRemedy Change to (CC) Response ACCEPT.	_DET_SEQ:	=0) + (CC_DET_SEQ=1) esponse Status C							-

Pa **145** Li **30**

Cl 145 SC 145.2.5.7 P148 L 10 # r01-485 Darshan, Yair	C/ 145 SC 145.2.5.7 P148 L 10 # r01-440 Darshan, Yair
Comment TypeTComment StatusAPres: Darshan3This is similar ot earlier comment but with updated remedy. The 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 To: !ted_timer_sec_done + !ted_timer_done + 	Comment TypeTComment StatusAPres: Darshan3The 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) + (pse_avail_pwr_sec > 2))
2))	Response Response Status C ACCEPT IN PRINCIPLE.
Response Response Status C	ACCEPT IN PRINCIPLE.
ACCEPT IN PRINCIPLE.	Adopt http://www.ieee802.org/3/bt/public/nov17/darshan_03_117_final.pdf
Adopt http://www.ieee802.org/3/bt/public/nov17/darshan_03_117_final.pdf	This resolution is identical to comment #434.
This resolution is identical to comment #434.	[Editor's note added after comment resolution completed:
[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]
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]	

Pa **148** Li **10**

C/ 145 SC 145.2.5.7 Yseboodt, Lennart	P 148 Philips Lighting	L11	# <u>r01-178</u>	C/ 145 Yseboodt,	SC 145.2.5.7 Lennart	P 150 Philips Lightin	L 1	# r01-179
Comment Type T Cor	mment Status A		Editorial	Comment	Туре Т	Comment Status A		PSE SL
Arc from CLASS_EVAL_SEC "ted_timer_sec_done * ted_tir (pd_req_pwr_sec <= pse_ava	mer_done *				e just become a	e diagrams don't really mo complicated way to start the		
pd_4pair_cand)"				Suggested	Remedy			
Has extra closing paren. SuggestedRemedy Remove final closing paren.	SYNTAX ERROR.			- in PC - in PC	WER_UP, after	9 'alt_pwrd_pri <= TRUE', add 'alt_pwrd_sec <= TRUE', adc add 'start tinrush_pri_timer'		
Response Res	ponse Status C			- in PC	WER_UP_SEC,	add 'start tinrush_sec_timer of paragraph at page 116, li		
ACCEPT.				Response		Response Status C		
[Editor's note added after com	ment resolution complet	ed:		ACCE	PT IN PRINCIPL	Ε.		
This logic has been completel and has not been implemente	, ,	comment r01	I-434, thus it is OBE	- in PC - in PC - in PC - in PC - in PC	WER_UP, after WER_UP_PRI, a WER_UP_SEC,	9 'alt_pwrd_pri <= TRUE', add 'alt_pwrd_sec <= TRUE', add add 'start tinrush_pri_timer' add 'start tinrush_sec_timer e of paragraph at page 116, li	d 'start tinrush_	
					add stops for app r comments/pres	ropriate timer(s) to the IDLE, entations.	IDLE_PRI, an	d IDLE_SEC if not done

Pa **150** Li **1**

C/ 145 SC 145.2.6	P 150 Dhiling Lightin	L 28	# r01-180	Cl 145		145.2.6.1		L 37	# r01-181
Yseboodt, Lennart	Philips Lighting	y		Yseboodt,	,		Philips Lighti	ng	
Comment Type ER Comment Status A Editorial TOPIC:SIGNATURE These comments fix inconsistencies in the word 'signature'. When referring to detection, we should talk about "PD detection signature". When referring to signature configuration, we should either say "single-signature PD, dual-signature PD, or PD signature configuration". The draft contains 12 instances of the ambiguous "PD signature". "The PSE is not required to continuously probe to detect a PD signature. The period of time when a PSE is not attempting to detect a PD signature is implementation dependent. PD signature is implementation dependent.			Comment Type T Comment Status R Connection Check "PSEs that will source power on both pairsets shall complete a connection check prior to the classification of a PD as defined in 145.2.7 to determine if the PSE is connected to a single-signature PD configuration, a dual-signature PD configuration, or neither." While I certainly agree with this requirement, how are we going to test this ? Can we somehow derive the result of cc-check at the PI ?						
			Suggeste	SuggestedRemedy					
			Rewrite this requirement such that it can be tested or remove it. [I know this is not remedy, but I don't have a solution offhand on how to do this].						
A PSE detecting an invalid PD signature on either Alternative may perform detection on the other Alternative, and if valid may perform classification on that pairset."				Response Response Status C REJECT.					
SuggestedRemedy Change as follows: "The PSE is not required to continuously probe to detect a PD **detection** signature. The period of time when a PSE is not attempting to detect a PD **detection** signature is implementation dependent.				The comment did not provide a sufficient remedy and the comment resolution group could not come to consensus on an appropriate remedy.					
			<i>Cl</i> 145 Anslow, P		145	P 151 Ciena Corpo	L 10 ration	# r01-30	
		ction** signature on either Alternative may perform I if valid may perform classification on that pairset." <i>tatus</i> C			Comment TypeTRComment StatusREditorialThe response to unsatisfied comment i-1 against D3.0 was: "We will work with editorial staff to try to clarify the style guide. Here is our opinion: There is a distinction between an em-dash, which indicates 'a lack of data', and leaving a cell blank. Eg. For parameters that convey a range, having a blank 'Min' cell, does NOT indicate there is lack of data, rather that the minimum value is open-ended. An em-dash would convey an incorrect message. Em-dashes have been put in all cells where it is appropriate."This interpretation of the style manual is different from the interpretation that has been used in recent amendments to IEEE Std 802.3. There is nothing differently to those in other recent amendments.SuggestedRemedy				
				Make blank In par	sure all min or	l tables ha max colun Tables 14	ave an entry of em-dash or p nns in accordance with all ot 5-7, 145-8, 145-9, 145-10, 1	her recent amer	ndments to IEEE 802.3.
				Response			Response Status U		
				REJE	CT.		-		
				entrie	s as it n	neans the	n group believes that the err re is "a lack of data". In Clar ck of data.		

TYPE: TR/technical required ER/editorial required GR/gener	Pa 151	Page 71 of 130	
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	Li 10	12/1/2017 3:17:48 PM
SORT ORDER: Page, Line			

C/ 145 SC 145.2.6.4		L 17	# r01-182	C/ 145 SC 145.2		L 35	# r01-184
'seboodt, Lennart	Philips Lighting			Yseboodt, Lennart	Philips Lightin	g	
Comment Type ER Comment Status A Editorial TOPIC:SIGNATURE These comments fix inconsistencies in the word 'signature'. When referring to detection, we should talk about "PD detection signature". When referring to signature configuration, we should either say "single-signature PD, dual-signature PD, or PD signature configuration". The draft contains 12 instances of the ambiguous "PD signature". "A PSE shall accept as a valid PD signature a pairset with all of the characteristics specified in Table 145-9." Status A			Comment Type ER Comment Status A Editor "The PSE shall reject a pairset within a link section as having an invalid signature, when the pairset exhibits any of the following characteristics as defined in Table 145-10:" For comparison, this is the text for valid: "A PSE shall accept as a valid PD signature a pairset with all of the characteristics specified in Table 145-9." What is "a pairset within a link section" ? This strange construction also exists in Clause 33.				
uggestedRemedy					ne business of rejecting pairsets he 'valid' text which makes at lea		
Change as follows: "A PSE shall accept as	a valid PD **detection** signate	ature a pairse	t with all of the	SuggestedRemedy			
characteristics specifie				Replace as follows:			
Response	Response Status C				ct as an invalid detection signatu stics as defined in Table 145-10:		hich exhibits any of the
ACCEPT.				Response	Response Status C		
/ 145 SC 145.2.6.5	P153	L 35	# r01-183	ACCEPT.			
seboodt, Lennart	Philips Lighting						
When referring to dete When referring to signa signature PD, or PD signature	Comment Status A consistencies in the word 'sign ction, we should talk about "PI ature configuration, we should gnature configuration". nstances of the ambiguous "PI	D detection signification detection signification of the set of th					
	a pairset within a link section as of the following characteristic						
uggestedRemedy							
	a pairset within a link section a irset exhibits any of the followi						
Response ACCEPT.	Response Status C						

ACCEPT.

Pa **153** Li **35**

<i>CI</i> 145 Yseboodt,	SC 145.2.6.7	P 154 Philips Lightin	L 20	# r01-185	C/ 145 Yseboodt,	SC 145.2.7	-	5 L7 Lighting	# r01-1	86
Comment		Comment Status A	9	4PID	Comment		Comment Status			Editorial
"PSEs pairset to as 4 pairset and the variabl A PSE signatu	shall determine wi s prior to applying PID. 4PID shall be s, the result of con a results of the Pov e pd_4pair_cand, o shall not apply 4-p ire on both pairset	hether an attached PD is a operating voltage to both p determined as a logical fu inection check as described wer via MDI TLV described defined in 145.2.5.4. bair power unless the PSE s and one or more of the fo	airsets. This de nction of the de d in 145.2.6.1, r in 79.3.2. It sha nas detected a	etermination is referred tection state of both nutual identification, all be stored in the valid detection	"PSE i poweri arrive : The us <i>Suggested</i> Chang "PSE i poweri	mplementatior ing using a sin at over-margin se of pairset is <i>IRemedy</i> le to: mplementatior ing using 2-pai	ns may use VPSE = VPc gle pairset, or RChan = F ed values as shown in T confusing here, because ns may use VPSE = VPc r, or RChan = RCh/2 wh shown in Table 145-11."	RCh/2 when powerin able 145-11." e one sentence abov ort_PSE-2P min and	g using two pairse e 2-pair is used. RChan = RCh wh	en ets to en
First sh Second	d shall: untestable	e shall is to determine som because unclear (again a c		ithout specifics on what	Response ACCE	PT.	Response Status	С		
	hall : contradicted	by the state diagram (but v alid shall statement.	ve will fix that) A	ND untestable.	C/ 145 Yseboodt,	SC 145.2.7 Lennart		5 <i>L</i> 39 Lighting	# <u>r01-1</u>	87
longer Also, tł signatu Anothe togethe Suggested Replac "PSEs prior to 4PID. 4 connec pd_4pa A PSE	has influence on p ne state diagram o ire operation. r comment will ma er. Remedy e by: determine whethe applying operating IPID is a logical fu tion check as des ir_cand, defined in shall not apply 4-p ire on both pairset	e results of the Power via I d_4pair_cand. nly follows this text partly, a uke state diagram changes, r an attached PD is a cand g voltage to both pairsets. nction of the detection state cribed in 145.2.6.1, and mu n 145.2.5.4, contains the re pair power unless the PSE s and one or more of the for <i>Response Status</i> C	as pd_4pair_can I won't do it he idate to receive This determinati e of both pairse itual identificatio sult of this dete	nd is only set for dual- re to keep of that stuff power on both pairsets ion is referred to as ts, the result of on. The variable rimination. valid detection	Reject rationa This se That w - Why - Meas - The a We ne measu Suggested Output - Remo - In 14 "PSEs pairset append	urements shou ed comment i- ale: entence follow: /hole section is is this a shoul surements of w actual power re- ed to find the a ured with a slid <i>IRemedy</i> t 'power' is enc- ove quoted set 5.2.8.5, page shall be able i t, as defined in d:	that ? PClass is a capab equirement of a PSE is e appropriate place to indic ing window. oded in ICon-2P, hence	ny sliding window with to remove this sente Class and PClass-2f ility. Incoded in ICon-2P. cate that PSE output it makes sense to pr current the PSE sup	n a width of 1 s." ince with the follow p. power capability i ut a sentence ther ports on each pov	is to be re.
					Response		Response Status	С		
					ACCE	PI.				

Pa **155** Li **39**

C/ 145 SC 145.2.7 P156 L 32 # r01-396 Johnson, Peter	C/ 145 SC 145.2.7.1 P 158 L 27 # r01-188 Yseboodt, Lennart Philips Lighting Philips Lighting Philips Lighting Philips Lighting
Comment Type T Comment Status A Editorial Table 145-11 footnotes NOTE 1 and NOTE 2 point to Tables 145-26 and 145-27 to get the "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 available. SuggestedRemedy	Comment Type E Comment Status A Editoria "When the PSE is in the state CLASS_EV1_LCE, CLASS_EV1_AUTO, CLASS_EV1_LCE_PRI, CLASS_EV1_LCE_SEC, CLASS_EV1_LCE_4PID_PRI, or CLASS_EV1_LCE_4PID_SEC, it shall provide to the PI or pairset VClass, subject to T LCE timing specification." Editoria
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.) Response Response Status C ACCEPT IN PRINCIPLE.	Do not use "in the state" when describing capital statenames. SuggestedRemedy Change to: "When the PSE is in CLASS_EV1_LCE, CLASS_EV1_AUTO, CLASS_EV1_LCE_PRI, CLASS_EV1_LCE_SEC, CLASS_EV1_LCE_4PID_PRI, or CLASS_EV1_LCE_4PID_SEC, it shall provide to the PI or pairset VClass, subject to T LCE timing specification."
Change "For maximum power available to PDs," to: "For PD requested power levels,."	Also on lines 32, 36, 44, 47 and 52 remove "in the state". <i>Response</i> ACCEPT.
CI 145 SC 145.2.7 P 156 L 32 # [r01-395] Johnson, Peter Image: Comment Type T Comment Status A PSE Power Comment Type T Comment Status A PSE Power Table 145-11 footnotes NOTE 1 and NOTE 2 should clarify that Pclass and Pclass-2P refer only to Table 145-11 and not more generally. SuggestedRemedy Change to: NOTE 1: Pclass in Table 145-11 is the minimum E. NOTE 2: Pclass-2P in	Cl 145 SC 145.2.7.2 P 160 L 10 # [101-189] Yseboodt, Lennart Philips Lighting Comment Type ER Comment Status A Editoria "P ac_margin is the minimum amount of power the PSE must add to P Autoclass in order to allocate" Word 'must' is not permitted. SuggestedRemedy

Pa **160** Li **10**

145.2.8 P161 L 32 # r01-191 t Philips Lighting
E Comment Status A Editoria
16 item 6 "Total output current of both pairs of the same polarity during ber the assigned Class" with an underscore.
current of both pairs of the same polarity during POWER_UP per the
SS"
Response Status C
145.2.8 P 162 L 15 # r01-441
T Comment Status A Pres: Darshans
bers need to in sync to Icon-2P_unb and Ipeak-2P_unb after latest changes b values.
ly
n_05_1117.pdf
Response Status C
PRINCIPLE.
s shown in
e802.org/3/bt/public/nov17/darshan_05_1117_final.pdf
145.2.8 P162 L 32 # r01-388
Analog Devices Inc.
TR Comment Status R PSE Powe
e 3 PSEs is never referenced anywhere in the draft.
ly
for Type 3 PSEs
Response Status C
enced on page 173, line 6. It states:
the minimum power a PSE is capable of sourcing.
quirement on both Type 3 and Type 4 PSEs.
Pa 162 Page 75 of 130
i rea

SORT ORDER: Page, Line

C/ 145 SC 145.2.8 P162 L 34 # r01	-389 C/ 145	SC 14	5.2.8.1	P 163	L 43	# r(01-192
Stover, David Analog Devices Inc.	Yseboo	dt, Lennart		Philips Lighting			
Comment Type TR Comment Status R	PSE Power Comme	nt Type T	R	Comment Status A			PSE Powe
Ptype,min for Type 4 PSEs is never referenced anywhere in the draft. Furthermolisted value (75W) is wrong.		SE that has sets while in		d Class 5 to 8 to a single-sig on state."	nature PD sh	nall apply pow	er to both
SuggestedRemedy Delete Ptype,min for Type 4 PSEs. Replace with an endash, or similar, to indicate a single value: 99.9W. Response Response Status C	e Ptype is It co not Give	uld be inferre the case. en that POW	ed that t ER_UPI	POWER_ON" to the less expl his includes the SEMI_PWR0 DATE is a state in which no p	ON_PRI/SEC	C states which	
REJECT.		r to just POV edRemedy	VER_OP	۱.			
Ptype is referenced on page 173, line 6. It states: PType min is the minimum power a PSE is capable of sourcing.	Rev "A F	ert to:		d Class 5 to 8 to a single-sig R_ON."	nature PD sh	nall apply pow	er to both
Which is a requirement on both Type 3 and Type 4 PSEs.		se CEPT.		Response Status C			
C/ 145 SC 145.2.8 P163 L 28 # r01	-442 C/ 145	SC 14	5.2.8.2	P163	L 51	# r(01-193
Comment Type T Comment Status A	Editorial Yseboo	dt, Lennart		Philips Lighting			
The note (a) belongs to Icon-2P_unb as it was in D3.0	Comme	nt Type E	E	Comment Status A			Editoria
SuggestedRemedy Change Note a from "aThe IUnbalance-2P value is higher than the value for Class unbalance for Class 4 is not restricted."	pair			ned in Table 145-16, is the m rity, at no load condition, whe			
To: "aThe Icon-2P_unb value is higher than the value for Class 5 as unbalance for is not restricted."	r Class 4 Mul	iple power o	n states	, do not use "the power on st	ate".		
Response Response Status C	Sugges	edRemedy					
ACCEPT.	"VP pair		,	ned in Table 145-16, is the m rity, at no load condition, whe		0	
		se		Response Status C			

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

	2.8.3 P164	L 4	# r01-28	C/ 145	SC 145.2.8.5	P 164	L 43	# r01-443
Anslow, Peter	Ciena Corpor	ation		Darshan, Yair				
Comment Type E	Comment Status A		Editorial	Comment Typ	e T	Comment Status D		PSE Powe
There are a numbe SuggestedRemedy	er of instances of text that should	be cross-referer	ices.	In the text	"PSEs shall b	i-204 in D3.0. be able to source ICon-2P, th ined in Equation (145-8).".	ne current the Pa	SE supports on each
"145.2.8.8" page 16 "145.1.3" page 168 "Table 145-19" pag "Table 145-41" pag "Table 145-41" pag	8, line 23 ge 176, line 35 ge 244, line 7 (shouldn't this be T ge 244, line 8 (shouldn't this be T	able 145-42?) able 145-43?)		The text s 145-8. Th numerical equations is a spec	ays that Icon- is current can definition or c in the spec. C	2P is the current that the PS not be calculated per Equation can be calculated per the dat One may ask why we need to t leave spec parameter/equation	on 145-8 since l a in the spec as calculate it? Th	port-2P_other has no s we do for all our ne answer is because it
"Equation (145-35) "145.1.3" page 277				SuggestedRe	medy			
Response ACCEPT. C/ 145 SC 145.2	Response Status C	L 17	# r01-194	text to the "Iport-2P_ pairs of th	existing defin other can be e same polari	2P_other in the where list of ition: found by the measurement o ty when PSE is connected t described in 145.2.8.5.1"	of the current diff	ference between two
/seboodt, Lennart	Philips Lightir		# 101-134	Proposed Res		Response Status Z		
Comment Type E	Comment Status A		Editorial	, REJECT.				
There is a double p	period on this line (one of which s	ubscript).		This com	nent was WIT	HDRAWN by the commente	er.	
SuggestedRemedy							L10	
30 <i>j</i>				C/ 145	SC 145.2.8.5	P 165	L 10	# r01-196
Fix.				C/ 145 Yseboodt, Ler		P 165 Philips Lightin		# <u>r01-196</u>
Fix.	Response Status C			Yseboodt, Ler Comment Typ	nart e TR	Philips Lightin Comment Status A	ng	PSE Powe
Fix. Response ACCEPT.		L 23	# <u>r01-195</u>	Yseboodt, Ler Comment Typ "When po	nnart e TR wering a singl	Philips Lightin	a PSE supports	PSE Powe
Fix. Response ACCEPT. Cl 145 SC 145.2		-	# <u>r01-195</u>	Yseboodt, Ler <i>Comment Typ</i> "When po - A minim	nnart e TR wering a singl uum current of	Philips Lightin Comment Status A e-signature PD over 4 pairs,	a PSE supports the pairs of the	PSE Powe s: same polarity"
Fix. Response ACCEPT.	2.8.5 P164	-	# <u>r01-195</u> Editorial	Yseboodt, Ler <i>Comment Typ</i> "When po - A minim The curre	nart e TR wering a sing num current of nt a PSE is re	Philips Lightin Comment Status A e-signature PD over 4 pairs, I Unbalance-2P over one of	a PSE supports the pairs of the -unb, whereas II	PSE Powe s: same polarity" Unbalance-2P is the
Fix. Response ACCEPT. Cl 145 SC 145.2 (seboodt, Lennart Comment Type E "IPort-2P and IPort pairsets and are de	2.8.5 P164 Philips Lightir Comment Status A c-2P-other are the currents on the efined in Equation (145-5) and in	pairs with the s Equation (145-6	<i>Editorial</i> ame polarity of the two	Yseboodt, Ler Comment Typ "When po - A minim The curre maximum SuggestedRe	nart e TR wering a sing num current of nt a PSE is re unbalance cu medy	Philips Lightin Comment Status A e-signature PD over 4 pairs, I Unbalance-2P over one of quired to support is ICon-2P	a PSE supports the pairs of the -unb, whereas II t-case condition	PSE Powe s: same polarity" Unbalance-2P is the
Fix. Response ACCEPT. Cl 145 SC 145.2 (seboodt, Lennart Comment Type E "IPort-2P and IPort pairsets and are de "of the two pairsets	2.8.5 P 164 Philips Lightir Comment Status A -2P-other are the currents on the	pairs with the s Equation (145-6	<i>Editorial</i> ame polarity of the two	Yseboodt, Ler Comment Typ "When po - A minim The curre maximum SuggestedRe	nart e TR wering a sing num current of nt a PSE is re unbalance cu medy	Philips Lightin Comment Status A e-signature PD over 4 pairs, I Unbalance-2P over one of quired to support is ICon-2P irrent that occurs under wors	a PSE supports the pairs of the -unb, whereas II t-case condition	PSE Powe s: same polarity" Unbalance-2P is the
Fix. Response ACCEPT. C/ 145 SC 145.2 (seboodt, Lennart Comment Type E "IPort-2P and IPort pairsets and are de "of the two pairsets SuggestedRemedy Change to: "IPort-2P and IPort	2.8.5 P164 Philips Lightir Comment Status A c-2P-other are the currents on the efined in Equation (145-5) and in	pairs with the s Equation (145-6 this part.	<i>Editorial</i> ame polarity of the two ."	Yseboodt, Ler Comment Typ "When po - A minin The curre maximum SuggestedRe Replace I	e TR wering a singl num current of nt a PSE is re unbalance cu <i>medy</i> _Unbalance-2	Philips Lightin Comment Status A e-signature PD over 4 pairs, I Unbalance-2P over one of quired to support is ICon-2P irrent that occurs under wors P by ICon-2P-unb in the quo	a PSE supports the pairs of the -unb, whereas II t-case condition	PSE Powe s: same polarity" Unbalance-2P is the
Fix. Response ACCEPT. Cl 145 SC 145.2 (seboodt, Lennart Comment Type E "IPort-2P and IPort pairsets and are de "of the two pairsets SuggestedRemedy Change to: "IPort-2P and IPort	2.8.5 P164 Philips Lightir Comment Status A -2P-other are the currents on the sfined in Equation (145-5) and in " does not add anything, remove	pairs with the s Equation (145-6 this part.	<i>Editorial</i> ame polarity of the two ."	Yseboodt, Ler Comment Typ "When po - A minim The curre maximum SuggestedRe Replace I Response	e TR wering a singl num current of nt a PSE is re unbalance cu <i>medy</i> _Unbalance-2	Philips Lightin Comment Status A e-signature PD over 4 pairs, I Unbalance-2P over one of quired to support is ICon-2P irrent that occurs under wors P by ICon-2P-unb in the quo	a PSE supports the pairs of the -unb, whereas II t-case condition	PSE Powe s: same polarity" Unbalance-2P is the

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

Pa **165** Li **10**

C/ 145 Yseboodt,	SC 145.2 Lennart	2.8.5	P 165 Philips Lighting	L 38	# r01-197	<i>CI</i> 145 Yseboodt,		145.2.8.5.1	P 166 Philips Lightir	L 26	# r01-198
Comment	Type ER	2	Comment Status A		Editorial	Comment	Туре	Е	Comment Status D	0	Editoria
	minimum ci d in Equation		due to unbalance effects a PS -12)"	E must supp	ort on a pairset as	In table maxim		7 which de	fined IUnbalance-2P the co	lumn "Value" do	es not convey this is a
Must n	0					Suggested Chang	-	y In name to	"Max"		
	,		due to unbalance effects a PS	E supports o	on a pairset as defined	Proposed I REJE	Respon		Response Status Z		
Response ACCEI	,	2)	Response Status C					was WITH	IDRAWN by the commente	er.	
						This co	omment	was WITH	IDRAWN before the start o	f comment resol	ution.
<i>CI</i> 145 RAN, ADE	SC 145.2 E	2.8.5	P166 Intel Corporation	L 16	# r01-51	C/ 145		145.2.8.5.1		L 27	# r01-199
Comment Per the	51	ual, the	Comment Status A use of the word will is depred	ated.	Editorial	Yseboodt, Comment		TR	Philips Lightir Comment Status D	ig	Pres: Yseboodt7
Suggested Chang	-	ent will	not equally divide" do "the cur livide".	rent does no	t equally divide" or "the	change This le PSEs :	es to RS ads to t and PDs	Source and he 'extra' u s that mee	es of IUnbalance-2P were in RLoad. Inbalance margin being ass t their respective unbalance oked up together.	igned to both the	e PSE and the PD.
Response	.,	1	Response Status C			I suspe	ect we n	need update	es to RSource and RLoad.		
ACCEI	PT IN PRIN	CIPLE				Suggested	Remedy	У			
Chang	e "the curre	nt will	not equally divide" to "the curr	ent may not	equally divide"	Adopt	yseboo	dt_07_011	7_unbalance.pdf		
C/ 145	SC 145.		P166	L18	# r01-341	Proposed REJEC	•	se	Response Status Z		
Stewart, He			Analog Devices	INC.		This co	omment	was WITH	IDRAWN by the commente	er.	
The de	eous the.		Comment Status A current is unbalanced depend	s on the spe	<i>Editorial</i>	This co	omment	t was withd	rawn before the start of cor	nment resolutior	۱.
Suggested	-										
Chang	e "and the F	⊃D" to	"and PD"								
Response ACCEI	PT.		Response Status C								

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

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C/ 145 Yseboodt, Le	SC 145.2 ennart	.8.5.1	P 166 Philips	6 Lighting	L 28	# r01-200	Cl 145 Zimmermar		145.2.8.5.1 rge		P166 Aquantia, AD	<i>L</i> 44 I, Comm	# r01-286
Comment Ty	pe ER	(Comment Status	4		Editorial	Comment T	ype	TR	Comment	Status A		Pres: Darshan
The valu	ue for Assig d a similar	ned Cla	imum pair unbalan ass 1 to 4 is "ICon". tion as exists for IC				(plug) s only on	hall m e othe	eet the req	uirements of ent listed in 1	⁻ 145.2.8.5.1." - 45.2.8.5.1, and	 this is nonsens d I believe the in 	d cabling connector ical. There is actually itent is that that mated to a connector.
Add foot	tnote to "1	to 4" tha	it says: "Unbalance	e current	for these assi	gned Classes is not	SuggestedF		•				
restricte Response ACCEP		R	esponse Status (C			sentend PSE sh	ce afte all not at the	r the sente source") PSE PI co	nce ending c , new senter	on line 30 of pance to read ""Tl	age 167 (senten his unbalance ci	, and insert new ce begins on line 29 "A urrent requirement balanced cabling
C/ 145 Darshan, Ya	SC 145.2 iir	.8.5.1	P166	6	L 29	# r01-444	Response ACCEP	ŭ		Response S	Status C		
This interminimum current of is suffici- between SuggestedR In Table 1) In the 2) In the "lunb	ention of ac n value of during unba ent to defin n min/max 2 <i>emedy</i> 145-17 ma 2 2nd row, i e 2nd row,	Iding Iun the curre alance c ne that I values o ake the f n the as in the V =Icon-2F	balance and Table ent that PSE has to onditions that PSE	e 145-17 source and PD n-2P_ur eters and	was to clearly and what is to should not cru b+2mA. This d also result w	maximum value of the oss. For this purpose, it will set clear boundary th simpler spec.	requirer shall? <i>SuggestedF</i> Delete The PS	<i>ype</i> remely ments R <i>emec</i> E PI c	. Are the re dy connector (j.	quirements I ack) when m	et the shall whi imited to the se nated with a sp 145.2.8.5.1.	ch shalls the en ections shalls? T	Unbalance tire sections Thus did we shall the I cabling connector
Response		R	esponse Status (C				T IN F	PRINCIPLE	•			
adopt ch http://ww		own in 2.org/3/b	t/public/nov17/dars to comment #441.	shan_05	_1117_final.pc	lf	delete p sentence PSE sh applies connect	bage 1 ce afte all not at the tor (plu	66, lines 44 or the sente source") PSE PI co ug)."	4-45 (the quo nce ending c , new senter	on line 30 of pa nce to read ""Tl <) when mated	age 167 (senten his unbalance ci	and insert new ce begins on line 29 "A urrent requirement balanced cabling

Pa **166** Li **44**

C/ 145 SC 145.2.8.5.		L 19	# r01-201		C 145.2.8.5.1	P 167	L 35	# r01-203
powered pairs of the sa 'allowable' is not the be There are 4 instances of SuggestedRemedy Replace 'allowable' by '	st word, what is meant is 'supp f 'allowable' in the draft, all rel supported' throughout the draf	n mode effectiv ported'. ated to R_PSI		resistances as shown i Strange en <i>SuggestedRen</i> Change to: "The load r	e E Con resistances Rload_r s Rload1_min and R n Figure 145-22, to nding in last part. nedy : resistances Rload_r	correctly be able to s nin and Rload_max a	re split into two ad1_max and R et the power sir re split into two	load2_max respectively, ik."
Response ACCEPT.	Response Status C				n Figure 145-22, su	ch that the power sin		
Cl 145 SC 145.2.8.5. Yseboodt, Lennart Comment Type E "Table 145-18 specifies Rload_max according t Equation (145-14), Equ "values of resistance" is	Philips Lighting <i>Comment Status</i> A the values of resistance used o ation (145-15)."		# <u>r01-202</u> <i>Editorial</i> load_min and	resistances as shown i inside the f	resistances Rload_r s Rload1_min and R	the power sink can b class_PD."	ad1_max and R	series load2_max respectively, the power consumption
according to	the resistance values used to	compute Rloa	ad_min and Rload_max	Yseboodt, Lenr Comment Type	e E Con	P 167 Philips Lightir Inment Status A I), Equation (145-15).	0	# <u>r01-204</u> <i>Editoria</i> ances"
Equation (145-14), Equ <i>Response</i> ACCEPT.	ation (145-15)." Response Status C			SuggestedRem	/ "according to Equa		uation (145-15)	. The load resistances"

Pa **167** Li **36**

C/ 145 SC Darshan, Yair	345.2.8.5.1	P167	L 36	# r01-445	C/ 145 Darshan, Y		145.2.8.5.1	P167	L 50	# <u>r01-447</u>
Comment Type	T Co	mment Status A		Editorial	Comment 7	Гуре	Е	Comment Status A		Editoria
load resistan resistances I	nces Rload_min a Rload1_min and	text to what the power and Rload_max are spl Rload2_min, and Rload	t into two series			balance		in the text "Rload2_min is min represents the PD cc		
as shown in 22, to correc Pclass-PD a	tly be able to set	the power sink.". The	oower sink need	I to be adjusted to get		e from	: "Rload2_n	nin is the lowest resistanc		
SuggestedReme	dv				To: "Rle	oad2_	min is the lo	owest resistance represer	nting the PD contri	bution to unbalance".
Change from resistances I	n "The load resist Rload1_min and		d1_max and Ric	ad2_max respectively,	Response ACCEF	PT IN F	PRINCIPLE	Response Status C		
To: "The load res	sistances Rload_	correctly be able to se _min and Rload_max a	e split into two	series				nin is the lower resistance ower resistance represent		
		Rload2_min, and Rload correctly be able to see		ad2_max respectively,	C/ 145	SC	145.2.8.5.1	P168	L 51	# r01-374
	at the input of Plo			(to generate	Stover, Dav	vid		Analog Dev	ices Inc.	
Response	Res	ponse Status C			Comment 7	Гуре	ER	Comment Status A		Editoria
ACCEPT IN	PRINCIPLE.				lunbala	ance-2	P reference	s Table 145-16; is defined	d in Table 145-17.	
Change to:					Suggestedl	Remed	dy			
"The load res		_min and Rload_max a			Change	e "as d	efined in Ta	able 145-16" to "as define	d in Table 145-17	".
as shown in		o the power sink can be		oad2_max respectively, he power consumption	Response ACCEF	ΡT.		Response Status C		
C/ 145 SC Darshan, Yair	145.2.8.5.1	P167	L 49	# r01-446						
Comment Type	E Co	mment Status A		Editorial						
resistance va		e text "Rload2_max is, g the PD unbalance". R d not unbalance.								
SuggestedReme	edy									
the PD unba To: "Rload2	lance"	s, given Rload2_min, th load2_min, the higher	0	nce value representing representing the PD						
Response		ponse Status C								
ACCEPT.	A contraction of the contraction									

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

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C/ 145 SC 145.2.8.6 P169 L 5 # [r01-205	C/ 145 SC 145.2.8.6 P169 L 25 # r01-207
Yseboodt, Lennart Philips Lighting	Yseboodt, Lennart Philips Lighting
Comment Type T Comment Status A PSE Inrus	n Comment Type E Comment Status A Editor
"PSEs that have assigned Class 5 to 8 to a single-signature PD shall reach the power on state on both pairsets within TInrush max, starting with the first pairset transitioning into the	"Figure 145-23Per pairset inrush transient limits"
power up state, and where the second pairset transitions to a power up state anytime within this time period."	Improper description, this Figure depicts I_PSEIT-2P which is the PSE inrush maximum limit.
This solely applies to the one and only POWER_ON state.	SuggestedRemedy
"a power up state" is misleading as there is only one POWER_UP state, however each	Change title to "Per pairset PSE inrush maximum current limit"
pairset can go independently into a 'power up' condition.	Response Response Status C
SuggestedRemedy	ACCEPT IN PRINCIPLE.
Change to: "PSEs that have assigned Class 5 to 8 to a single-signature PD shall reach POWER_ON	"limit" hints at implementation. This is really just the maximim current.
on both pairsets within TInrush max, starting with the first pairset transitioning into power up, and where the second pairset transitions to power up anytime within this time period."	Change title to "Per pairset PSE inrush maximum current"
Response Response Status C	C/ 145 SC 145.2.8.6 P169 L 30 # r01-208
ACCEPT.	Yseboodt, Lennart Philips Lighting
C/ 145 SC 145.2.8.6 P169 L 20 # r01-206	Yseboodt, Lennart Philips Lighting Comment Type TR Comment Status A PSE Inrus "IInrush-2P" is a range for dual-signature, thus the maximum value should be used.
C/ 145 SC 145.2.8.6 P 169 L 20 # r01-206 'seboodt, Lennart Philips Lighting Philips Lighting Philips Lighting Philips Lighting	Comment Type TR Comment Status A PSE Inrus "Ilnrush-2P" is a range for dual-signature, thus the maximum value should be used.
C/ 145 SC 145.2.8.6 P 169 L 20 # r01-206 /seboodt, Lennart Philips Lighting Philips Lighting Philips Lighting Philips Lighting	Comment Type TR Comment Status A PSE Inrus "Ilnrush-2P" is a range for dual-signature, thus the maximum value should be used.
C/ 145 SC 145.2.8.6 P169 L 20 # r01-206 /seboodt, Lennart Philips Lighting Comment Type E Comment Status A Editoria	Comment Type TR Comment Status A PSE Inrus "IInrush-2P" is a range for dual-signature, thus the maximum value should be used. SuggestedRemedy
C/ 145 SC 145.2.8.6 P 169 L 20 # r01-206 'seboodt, Lennart Philips Lighting Philips Lighting Editoria Comment Type E Comment Status A Editoria The line depicting the IPSEIT-2P should stop at the 75ms mark in Figure 145-23, but it runs past it. Figure 145-23, but it runs past it.	Comment Type TR Comment Status A PSE Inrus "IInrush-2P" is a range for dual-signature, thus the maximum value should be used. SuggestedRemedy Change "IInrush-2P" to "IInrush-2P max", 5 occurances.
C/ 145 SC 145.2.8.6 P 169 L 20 # r01-206 /seboodt, Lennart Philips Lighting Philips Lighting Editoria Comment Type E Comment Status A Editoria The line depicting the IPSEIT-2P should stop at the 75ms mark in Figure 145-23, but it runs past it. Figure 145-23, but it runs past it.	Comment Type TR Comment Status A PSE Inrust "IInrush-2P" is a range for dual-signature, thus the maximum value should be used. SuggestedRemedy Change "IInrush-2P" to "IInrush-2P max", 5 occurances. Response Response Status C ACCEPT. Comment Status C
C/ 145 SC 145.2.8.6 P 169 L 20 # r01-206 Seboodt, Lennart Philips Lighting Philips Lighting Comment Type E Comment Status A Editoria The line depicting the IPSEIT-2P should stop at the 75ms mark in Figure 145-23, but it runs past it. SuggestedRemedy Shorten line to end at the 75ms mark. Response Response Status C	Comment Type TR Comment Status A PSE Inrus "Ilnrush-2P" is a range for dual-signature, thus the maximum value should be used. SuggestedRemedy Change "Ilnrush-2P" to "Ilnrush-2P max", 5 occurances. Response Response Status C
C/ 145 SC 145.2.8.6 P 169 L 20 # r01-206 Seboodt, Lennart Philips Lighting Philips Lighting Editoria Comment Type E Comment Status A Editoria The line depicting the IPSEIT-2P should stop at the 75ms mark in Figure 145-23, but it runs past it. SuggestedRemedy Shorten line to end at the 75ms mark.	Comment Type TR Comment Status A PSE Inrust "IInrush-2P" is a range for dual-signature, thus the maximum value should be used. SuggestedRemedy Change "IInrush-2P" to "IInrush-2P max", 5 occurances. Response Response Status C ACCEPT. C/ 145 SC 145.2.8.6 P 169 L 39 # r01-209 Yseboodt, Lennart Philips Lighting
C/ 145 SC 145.2.8.6 P 169 L 20 # r01-206 Seboodt, Lennart Philips Lighting Editoria Comment Type E Comment Status A Editoria The line depicting the IPSEIT-2P should stop at the 75ms mark in Figure 145-23, but it runs past it. SuggestedRemedy Shorten line to end at the 75ms mark. Response Response Status C	Comment Type TR Comment Status A PSE Inrust "IInrush-2P" is a range for dual-signature, thus the maximum value should be used. SuggestedRemedy Change "IInrush-2P" to "IInrush-2P max", 5 occurances. Response Response Status C ACCEPT. C/ 145 SC 145.2.8.6 P169 L 39 # r01-209 Yseboodt, Lennart Philips Lighting
C/ 145 SC 145.2.8.6 P 169 L 20 # r01-206 iseboodt, Lennart Philips Lighting Editoria Comment Type E Comment Status A Editoria The line depicting the IPSEIT-2P should stop at the 75ms mark in Figure 145-23, but it runs past it. EuggestedRemedy Shorten line to end at the 75ms mark. Response Response Status C	Comment Type TR Comment Status A PSE Inrustion "IInrush-2P" is a range for dual-signature, thus the maximum value should be used. SuggestedRemedy SuggestedRemedy Change "IInrush-2P" to "IInrush-2P max", 5 occurances. Response Response Status C C ACCEPT. C/ 145 SC 145.28.6 P 169 L 39 # [r01-209] Yseboodt, Lennart Philips Lighting C PSE Inrust Comment Type T Comment Status A PSE Inrust
In 145 SC 145.2.8.6 P 169 L 20 # r01-206 seboodt, Lennart Philips Lighting Editoria comment Type E Comment Status A Editoria The line depicting the IPSEIT-2P should stop at the 75ms mark in Figure 145-23, but it runs past it. Editoria Editoria Shorten line to end at the 75ms mark. Editoria Editoria Editoria Response Response Status C C	Comment Type TR Comment Status A PSE Inrustion "IInrush-2P" is a range for dual-signature, thus the maximum value should be used. SuggestedRemedy Change "IInrush-2P" to "IInrush-2P max", 5 occurances. Response Response Status C ACCEPT. Cl 145 SC 145.2.8.6 P 169 L 39 # [r01-209] Yseboodt, Lennart Philips Lighting Comment Type T Comment Status A PSE Inrust "is the maximum value of I Inrush-2P or I Inrush as defined in Table 145-16" SC 145-16" PSE Inrust
Cl 145 SC 145.2.8.6 P 169 L 20 # [r01-206] /seboodt, Lennart Philips Lighting Editoria Comment Type E Comment Status A Editoria The line depicting the IPSEIT-2P should stop at the 75ms mark in Figure 145-23, but it runs past it. SuggestedRemedy Shorten line to end at the 75ms mark. Response Response Status C	Comment Type TR Comment Status A PSE Inrustion "Ilnrush-2P" is a range for dual-signature, thus the maximum value should be used. SuggestedRemedy Change "Ilnrush-2P" to "Ilnrush-2P max", 5 occurances. Response Response Status C ACCEPT. CI 145 SC 145.2.8.6 P 169 L 39 # 101-209 Yseboodt, Lennart Philips Lighting PSE Inrustion Comment Type T Comment Status A PSE Inrustion "is the maximum value of I Inrush-2P or I Inrush as defined in Table 145-16" We got rid of this dual equation for Ilnrush-2P and Ilnrush. Now solely applies to Ilnrush-2P
Cl 145 SC 145.2.8.6 P 169 L 20 # r01-206 /seboodt, Lennart Philips Lighting Editoria Comment Type E Comment Status A Editoria The line depicting the IPSEIT-2P should stop at the 75ms mark in Figure 145-23, but it runs past it. SuggestedRemedy Shorten line to end at the 75ms mark. Response Response Status C	Comment Type TR Comment Status A PSE Inrust "Ilnrush-2P" is a range for dual-signature, thus the maximum value should be used. SuggestedRemedy Change "Ilnrush-2P" to "Ilnrush-2P max", 5 occurances. Response Response Status C ACCEPT. ACCEPT. Intervention Cl 145 SC 145.2.8.6 P169 L 39 # 101-209 Yseboodt, Lennart Philips Lighting PSE Inrust Comment Type T Comment Status A PSE Inrust "is the maximum value of I Inrush-2P or I Inrush as defined in Table 145-16" We got rid of this dual equation for IInrush-2P and IInrush. Now solely applies to IInrush-2P SuggestedRemedy SuggestedRemedy

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/ 145 SC 145.2.8.6 seboodt, Lennart	P 169 Philips Lightir	L 44 ng	# r01-210	C/ 145 SC 14 Yseboodt, Lennart	45.2.8.8	P 170 Philips Lighti	L 13	# <u>r01-212</u>
omment Type T	Comment Status A		PSE Inrush	Comment Type	E Con	nment Status A		PSE Powe
	nd I Inrush-2P current capa eds 30 V. During a power	,		lowerbound ten	nplate ["] in Figure	m the PI if the PI cur e 145-24 and Figure	145-25."	
This is an exception to th	e shall on line 8, but it intro	oduces new mir	imums. As such, this		e 11	es to a given PSE. C	Change 'and' to '	or'.
should be a requirement	also.			SuggestedRemedy		and the DL Mathematica		
The requirements that fo	low are hard to parse.					m the PI if the PI cur a 145-24 or Figure 14		xceeds the PSE
uggestedRemedy				Response		onse Status C		
applies when VPSE exce During a power up state, - when powering a single 0V and 10V, and 60mA v - when powering a dual-s	nd I Inrush-2P current capa eds 30 V.	IInrush of 5mA / and 30V, nrush-2P of 5m	when VPSE is between A when VPSE is	ACCEPT.				
between ov and rov, an		neen iei ana						
,	Response Status C							
esponse ACCEPT IN PRINCIPLE Replace page 169, line 4	Response Status C		d in Table 115 16					
ACCEPT IN PRINCIPLE Replace page 169, line 4 "The minimum I Inrush a applies when VPSE exce During a power up state, - when powering a single OV and 10V, and 60mA v - when powering a dual-s	Response Status C 4-52 as follows: nd I Inrush-2P current capa eds 30 V.	ability as defined linrush of 5mA / and 30V, nrush-2P of 5m	when VPSE is between A when VPSE is					
ACCEPT IN PRINCIPLE Replace page 169, line 4 "The minimum I Inrush a applies when VPSE exce During a power up state, - when powering a single OV and 10V, and 60mA v - when powering a dual-s between 0V and 10V, an	Response Status C 4-52 as follows: nd I Inrush-2P current capa eds 30 V. the PSE shall support: -signature PD, a minimum when VPSE is between 10V ignature PD, a minimum li d 60mA when VPSE is bet	ability as defined linrush of 5mA / and 30V, nrush-2P of 5m ween 10V and 3	when VPSE is between A when VPSE is 30V."					
ACCEPT IN PRINCIPLE Replace page 169, line 4 "The minimum I Inrush a applies when VPSE exce During a power up state, - when powering a single OV and 10V, and 60mA v - when powering a dual-s between 0V and 10V, an SC 145.2.8.8	Response Status C 4-52 as follows: nd I Inrush-2P current capa eds 30 V. the PSE shall support: -signature PD, a minimum when VPSE is between 10V ignature PD, a minimum li	ability as defined linrush of 5mA / and 30V, nrush-2P of 5m ween 10V and 3 <i>L</i> 8	when VPSE is between A when VPSE is					
ACCEPT IN PRINCIPLE Replace page 169, line 4 "The minimum I Inrush a applies when VPSE exce During a power up state, - when powering a single 0V and 10V, and 60mA v - when powering a dual-s between 0V and 10V, an	Response Status C 4-52 as follows: nd I Inrush-2P current capa eds 30 V. the PSE shall support: -signature PD, a minimum when VPSE is between 10V ignature PD, a minimum li d 60mA when VPSE is bet	ability as defined linrush of 5mA / and 30V, nrush-2P of 5m ween 10V and 3 <i>L</i> 8	when VPSE is between A when VPSE is 30V."					
ACCEPT IN PRINCIPLE Replace page 169, line 4 "The minimum I Inrush a applies when VPSE exce During a power up state, - when powering a single 0V and 10V, and 60mA v - when powering a dual-s between 0V and 10V, an 145 SC 145.2.8.8 seboodt, Lennart omment Type E Subclause 145.2.8.8 star " For Type 3 PSEs, Fig	Response Status C 4-52 as follows: nd I Inrush-2P current capa eds 30 V. the PSE shall support: -signature PD, a minimum lid d 60mA when VPSE is betw P170 Philips Lightir Comment Status A	ability as defined linrush of 5mA / and 30V, nrush-2P of 5m ween 10V and 3 <i>L</i> 8 ng	when VPSE is between A when VPSE is 30V." # <u>r01-211</u> <i>Editorial</i> on (145-19) apply.					
ACCEPT IN PRINCIPLE Replace page 169, line 4 "The minimum I Inrush a applies when VPSE exce During a power up state, - when powering a single 0V and 10V, and 60mA v - when powering a dual-s between 0V and 10V, and 145 SC 145.2.8.8 seboodt, Lennart comment Type E Subclause 145.2.8.8 star " For Type 3 PSEs, Fig	Response Status C 4-52 as follows: nd I Inrush-2P current capa eds 30 V. the PSE shall support: -signature PD, a minimum when VPSE is between 10V ignature PD, a minimum lid 60mA when VPSE is between 10V ignat	ability as defined linrush of 5mA / and 30V, nrush-2P of 5m ween 10V and 3 <i>L</i> 8 ng	when VPSE is between A when VPSE is 30V." # <u>r01-211</u> <i>Editorial</i> on (145-19) apply.					
ACCEPT IN PRINCIPLE Replace page 169, line 4 "The minimum I Inrush a applies when VPSE exce During a power up state, - when powering a single OV and 10V, and 60mA v - when powering a dual-s between 0V and 10V, and 145 SC 145.2.8.8 seboodt, Lennart comment Type E Subclause 145.2.8.8 star " For Type 3 PSEs, Fig For Type 4 PSEs, Fig This text should come at	Response Status C 4-52 as follows: nd I Inrush-2P current capa eds 30 V. the PSE shall support: -signature PD, a minimum when VPSE is between 10V ignature PD, a minimum lid 60mA when VPSE is between 10V ignat	ability as defined linrush of 5mA / and 30V, nrush-2P of 5m ween 10V and 3 <i>L</i> 8 ng	when VPSE is between A when VPSE is 30V." # <u>r01-211</u> <i>Editorial</i> on (145-19) apply.					
ACCEPT IN PRINCIPLE Replace page 169, line 4 "The minimum I Inrush a applies when VPSE exce During a power up state, - when powering a single 0V and 10V, and 60mA v - when powering a dual-s between 0V and 10V, and 145 SC 145.2.8.8 seboodt, Lennart omment Type E Subclause 145.2.8.8 star " For Type 3 PSEs, Fig For Type 4 PSEs, Fig	Response Status C 4-52 as follows: nd I Inrush-2P current capa- leds 30 V. the PSE shall support: -signature PD, a minimum when VPSE is between 10V ignature PD, a minimum lid 60mA when VPSE is between 10V ignature PD, a minimum lid 60mA when VPSE is between 10V ignature PD, a minimum lid 60mA when VPSE is between 10V ignature PD, a minimum lid 60mA when VPSE is between 10V ignature PD, a minimum lid 60mA when VPSE is between 10V ignature PD, a minimum lid 60mA when VPSE is between 10V ignature PD, a minimum lid 60mA when VPSE is between 10V ignature PD, a minimum lid 60mA when VPSE is between 10V ignature PD, a minimum lid 60mA when VPSE is between 10V ignature PD, a minimum lid 60mA when VPSE is between 10V ignature PD, a minimum lid 60mA when VPSE is between 10V ignature PD, a minimum lid 60mA when VPSE is between 10V ignature PD, a minimum lid 60mA when VPSE is between 10V ignature PD, a minimum lid 60mA when VPSE is between 10V ignature PD, a minimum lid 60mA when VPSE is between 10V ignature PD, a minimum lid 60mA when VPSE is between 10V ignature PD, a minimum lid 60mA when VPSE is between 10V response 10V respon	ability as defined linrush of 5mA / and 30V, nrush-2P of 5m ween 10V and 3 <i>L</i> 8 ng	when VPSE is between A when VPSE is 30V." # <u>r01-211</u> <i>Editorial</i> on (145-19) apply.					
ACCEPT IN PRINCIPLE Replace page 169, line 4 "The minimum I Inrush a applies when VPSE exce During a power up state, - when powering a single OV and 10V, and 60mA v - when powering a dual-s between 0V and 10V, an 145 SC 145.2.8.8 seboodt, Lennart <i>omment Type</i> E Subclause 145.2.8.8 star " For Type 3 PSEs, Fig For Type 4 PSEs, Fig This text should come at uggestedRemedy	Response Status C 4-52 as follows: nd I Inrush-2P current capa- leds 30 V. the PSE shall support: -signature PD, a minimum when VPSE is between 10V ignature PD, a minimum lid 60mA when VPSE is between 10V ignature PD, a minimum lid 60mA when VPSE is between 10V ignature PD, a minimum lid 60mA when VPSE is between 10V ignature PD, a minimum lid 60mA when VPSE is between 10V ignature PD, a minimum lid 60mA when VPSE is between 10V ignature PD, a minimum lid 60mA when VPSE is between 10V ignature PD, a minimum lid 60mA when VPSE is between 10V ignature PD, a minimum lid 60mA when VPSE is between 10V ignature PD, a minimum lid 60mA when VPSE is between 10V ignature PD, a minimum lid 60mA when VPSE is between 10V ignature PD, a minimum lid 60mA when VPSE is between 10V ignature PD, a minimum lid 60mA when VPSE is between 10V ignature PD, a minimum lid 60mA when VPSE is between 10V ignature PD, a minimum lid 60mA when VPSE is between 10V ignature PD, a minimum lid 60mA when VPSE is between 10V ignature PD, a minimum lid 60mA when VPSE is between 10V ignature PD, a minimum lid 60mA when VPSE is between 10V response 10V respon	ability as defined linrush of 5mA / and 30V, nrush-2P of 5m ween 10V and 3 <i>L</i> 8 ng	when VPSE is between A when VPSE is 30V." # <u>r01-211</u> <i>Editorial</i> on (145-19) apply.					

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

-	145.2.8.9	P172	L 32	# r01-213	C/ 145		145.2.8.9		172	L 37	# r01-214
Yseboodt, Lennart		Philips Lighting			Yseboodt,	Lennart	I	Philip	os Lighting	g	
	: i-126 / D3.0	Comment Status A . which proposed a change t l in the room, but we failed to					E ien VPSE	Comment Status <= VOff max."	5 A		PSE
Those two are	e now in cont	radiction:			Suggested	Remedy	y				
VPort_PSE-2I	P min to V O	f in Table 145-16 shall apply ff of a pairset with a test resi	stor of 320 kC	hm attached to that	Chang	ge to:	ien VPSE	<= VOff."			
applied. T Off	starts when	commended that the pairset V PSE drops 1 V below the _sec variables are cleared (s	steady-state v	alue after the	Response ACCE			Response Status	С		
V PSE <= V C					C/ 145	SC 1	145.2.8.10		172	L 40	# r01-215
SuggestedRemed	<i>y</i>				Yseboodt,				os Lighting	-	# 101-215
Either: a) Change firs	t contonoo t	<u>.</u>			Comment		т	Comment Status		5	PSEI
"The specifica	tion for TOff	in Table 145-16 shall apply t with a test resistor of 320 k			"The s	specifica	tion for VC	Off in Table 145-16 against Draft 3.0 h	shall appl		age in the IDLE."
05					Suggested	Remedy	y	-			
		T Off starts when V PSE dro			Remov	ve this s	sentence.				
after the alt_p	wrd_pri and	alt_pwrd_sec variables are o	leared (see Fi	gure 145-13)."	Response			Response Status	С		
Change middl	e sentence a	as follows:			ACCE	PT.					
	is recommen	nded that the pairset be disc	harged when	operating voltage is	C/ 145	SC 1	145.2.8.10	P.	172	L 41	# r01-343
not applied." <i>Response</i>		Response Status W			Stewart, H		145.2.0.10		og Device		" [01-545
ACCEPT IN P					Comment		Е	Comment Status	-		Ed
Remove the s	entence "T C	Off starts when V PSE drops			Extran	neous the	e.	off in Table 145-16		v to the PI volta	
after the alt_p	wrd_pri and	alt_pwrd_sec variables are o	leared (see Fi	gure 145-13)."	Suggested				,		5
Change middl "In addition, it not applied."		as follows: nded that the pairset be disc	harged when	operating voltage is	Chang	je -		off in Table 145-16	shall apply	y to the PI volta	ge in the IDLE.
					The sp	pecificati	ion for VO	off in Table 145-16	shall apply	y to the PI volta	ge in IDLE.
					Response			Response Status	С		
					ACCE	PT IN P	RINCIPLE	≣.			
					Remov	ve this s	sentence.				
					This re	esolutior	n is identic	al to comment #21	5.		

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PSE Power

PSE Power

Editorial

C/ 145 SC 145.2.8.10 P172 L 44 C/ 145 P173 L15 # r01-216 SC 145.2.8.12 # r01-448 Yseboodt, Lennart Darshan, Yair Philips Lighting Comment Type TR Comment Status A PSF Power Comment Type T Comment Status D Pres: Darshan4 "The voltage at the PI shall be equal or less than V Off, as defined in Table 145-16, when Equation 145-22 accuracy need to be addressed. See proposed changes in the PSE is in DISABLED. IDLE. or ERROR DELAY." darshan 04 1117.pdf. SuggestedRemedy Also applies to BACKOFF state. Adopt darshan 04 1117.pdf Or does that mess up detection by the other PSE ? Proposed Response Response Status Z SuggestedRemedy REJECT. Add BACKOFF to the listed states. Response Response Status C This comment was WITHDRAWN by the commenter. ACCEPT. This comment was withdrawn before the beginning of comment resolution. C/ 145 SC 145.2.8.12 P173 L 8 # r01-217 C/ 145 r01-218 SC 145.2.10 P174 L10 # Yseboodt, Lennart Philips Lighting Yseboodt, Lennart Philips Lighting Comment Type TR Comment Status R PSE Power Comment Status A Editorial Comment Type ER "Type 4 PSEs shall not source more power than P Type max, as defined in Table 145-16, Subclause 145.2.10 "PSE power removal" contains just one sentence: measured using a sliding window with a width up to 4 seconds." "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 PSEs may source more than PType for up to 4 seconds. Text allows any sliding window Signature (MPS)." smaller than 4 seconds to be used. Also this doesn't work. We need a similar construct as for PPeak. It is followed by 145.2.11 which describes MPS. SuggestedRemedy Replace by: In the base standard, the MPS requirements were a subclause of PSE power removal and "Type 4 PSEs shall not source more power than P Type max, as defined in Table 145-16, subdivided in to AC and DC MPS. for longer than 4 seconds, with a maximum duty cycle of 1%." The current 145.2.10 as-is makes little sense. 145.2.11 (on MPS), does a poor job of introducing the topic. Response Response Status U SuggestedRemedy REJECT. - Delete 145.2.10 Existing text correctly states the maximum power rule. - 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." 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." TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general Page 85 of 130 Pa 174 COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn li 10 12/1/2017 3:17:48 PM

SORT ORDER: Page, Line

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

C/ 145 SC 145.2.11 Yseboodt, Lennart	P 174 Philips Lighting	L 18	# r01-219	C/ 145 Agnes, And	SC 145.3.1	P 176 STMicroelectro	L 23	# r01-57
				•			11105	- - - -
Comment Type ER "The specification for T	Comment Status D MPS in Table 145-16 applies o	nly to the DC M	<i>Editorial</i> PS component."		51	Comment Status A dual-signature PD is defined as	s Type4 althou	<i>Editoria</i> ugt just one Mode
Remnant from the past:	we only have DC MPS in Clau	se 145, which w	e just call "MPS".	Suggested		song.		
SuggestedRemedy				00	OTE 3 after the	table 145-19		
- Remove quoted senter - Search and replace "D	nce 0C MPS" by "MPS" in Clause 14	45				-signature PDs request Class 5	on at least or	ne pairset
Proposed Response	Response Status Z			Response		Response Status C		
REJECT.				ACCE	PT.			
This comment was WIT	HDRAWN by the commenter.			C/ 145 Yseboodt,	SC 145.3.2	P 176 Philips Lighting	L 34	# <u>r01-221</u>
This comment was with	drawn prior to the start of comm	nent resolution.		Comment		Comment Status A)	Editori
C/ 145 SC 145.3 Yseboodt, Lennart Comment Type E	P 175 Philips Lighting Comment Status A	L 24	# <u>r01-220</u> Editorial	"PDs s pair co	hall be capable	of accepting power in any valic lefined in Table 145-19." wrong, should be Table 145-20		
51	ecifications that apply to the PD) are in 145 4 "	Editorial	Suggested	Remedy			
SuggestedRemedy	ecifications that apply to the PD		* in 145.4."		hall be capable	of accepting power in any valic lefined in Table 145-20."	d 2-pair configu	uration and any valid 4-
Response	Response Status C			Response		Response Status C		
ACCEPT.				ACCE	PT IN PRINCIP	LE.		
C/ 145 SC 145.2.7.2 RAN, ADEE	P 175 Intel Corporation	L 32	# <u>r01-300</u>		hall be capable	of accepting power in any valic lefined in Table 145-20."	d 2-pair configu	uration and any valid 4-
	Comment Status A anal it would be good to have th e high-speed PHY clauses (see			fix link	which is broker	۱.		
Also holds for 145.3.6.2	(PD autoclass).							
SuggestedRemedy Append "(optional) to th	e headings of subclauses 145.	2.7.2 and 145.3.0	6.2.					
Response	Response Status C							

ACCEPT.

EPT.

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

Pa **176** Li **34**

C/ 145 SC 145.3.2	2 P176	L 35	# r01-36	C/ 145	SC 145.3.2	P 176	L 41	# r01-52
Jones, Chad	Cisco System	ns, Inc.		RAN, ADEE		Intel Corpora	ation	
Comment Type ER	Comment Status A		Editorial	Comment T	ype G	Comment Status R		Editoria
	able: "PDs shall be capable of a y valid 4-pair configuration as d			The NO (normat		repeat (informatively) what th	e clause text abc	ve it is stating
SuggestedRemedy				Saving	that somethin	g is not allowed does not belo	ong in an informa	tive note
	all be capable of accepting power		2-pair configuration and	SuggestedF			g aoa	
, ,	iguration as defined in Table 14	5-20."		00	he note.			
Response	Response Status C							
ACCEPT IN PRINCI	PLE.				clear that bot receding para	h Mode A and Mode B need : graph.	to be supported,	add a "shall" statement
Change to: "PDs shall be capable	le of accepting power in any val	lid 2-pair confic	uration and any valid 4-	Response		Response Status C		
	defined in Table 145-20."			REJEC	Т.			
fix link which is broke This resolution is ide	en. entical to comment #221.			emphas		nd yes this is a restatement of nent is out of scope and does		
C/ 145 SC 145.3.2		L 35	# r01-344	C/ 145	SC 145.3.2		L 48	# r01-390
Stewart, Heath	Analog Device	es Inc.		Stover, Dav	id	Analog Devi	ces Inc.	
Comment Type E	Comment Status A			Comment T	ype E	Comment Status A		Editoria
Link to Table 145-19	is broken					nd any voltage from 0V to 57	V applied any of	the valid
SuggestedRemedy				-		sing a preposition		
Fix link				SuggestedF		of the valid" to "applied to an	v of the volid"	
Response	Response Status C			Ũ	applied any		y of the valid	
ACCEPT IN PRINCI	PLE.			Response		Response Status C		
Change to:				ACCEP	T IN PRINCIE	LE.		
"PDs shall be capab	le of accepting power in any val defined in Table 145-20."	lid 2-pair config	uration and any valid 4-			nd any voltage from 0 V to 57 d in Table 145-20 indefinitely		
fix link which is broke	en.			This res	solution is ider	ntical to comment #222.		
This resolution is ide	entical to comment #221.							

Pa **176** Li **48**

C/ 145 SC 145.3.2 Yseboodt, Lennart	P 176 Philips Lightin	L 49 g	# r01-222	C/ 145 SC 145.3 . RAN, ADEE	3 P 177 Intel Corporation	L 42	# <u>r01-294</u>
Comment Type ER	Comment Status A		Editorial	Comment Type E	Comment Status A		Editori
	nd any voltage from 0 V to 57 in Table 145-20 indefinitely w			The title is "PD state diagrams.	e diagram" and the text mentions a	diagram, but	there are three state
Missing word 'per'.				SuggestedRemedy			
SuggestedRemedy				Change the title to "	PD state diagrams".		
"The PD shall withstar	nd any voltage from 0 V to 57 ^v in Table 145-20 indefinitely w			Also change "diagra Response	m" to "diagrams" in the first paragr Response Status C	raph (the seco	ond paragraph is fine).
Response	Response Status C			ACCEPT.			
ACCEPT.				C/ 145 SC 145.3	3.1 <i>P</i> 177	L 53	# r01-289
C/ 145 SC 145.3.2	P 177	L 36	# r01-345	RAN, ADEE	Intel Corporation	•••	# <u>r01-289</u>
Stewart, Heath	Analog Device	es Inc.		Comment Type E	Comment Status R		PD S
Comment Type E Text block is not aligned	Comment Status A		Editorial	<i>,</i> ,	his one, 145.2.5.2, and 145.5.3.1)	define conver	-
SuggestedRemedy Fix alignment at "denc	tes"				r for readers to have one subclaus ultiple "conventions" subclauses.	e for conventi	ons under 145.1,
Response	Response Status C			SuggestedRemedy			
ACCEPT.				Move the content of	145.2.5.2 to a new subclause 145	.1.5.	
C/ 145 SC 145.3.2 Stewart, Heath	P 177 Analog Device	L 40	# r01-346	Refer to that subcla	use in 145.2.5, in 145.3.3, and in 1	45.5.3.	
	Comment Status A	5 110.		Delete 145.2.5.2, 14	15.3.3.1, and 145.5.3.1.		
Comment Type E Missing "in"	Comment Status A		Editorial	Response	Response Status C		
0	witch the negative pairs, but no	ot required to s	witch the positive pairs	REJECT.	cons of the resirculation. Commo	nt in on unabo	and tout and
SuggestedRemedy Change "defined 145.	4.1.1.1" to "defined in 145.4.1.	1.1"			scope of the recirculation. Comme tive text change which does not ide		
Response ACCEPT.	Response Status C						

Pa **177** Li **53**

	Cl 145 RAN, ADEE	SC 145.3.3.2	P 178 Intel Corp	L 3 oration	# r 01	1-292	C/ 145 RAN, ADE	SC 145.3.3.3 E	P 178 Intel Co	L13 Apportion	# r01-293		
145.3.3: Subclauses 145.3.3.4 through 145.3.3.12 are the equivalent of the above for dual-signature PDS. '	Comment Ty	ype G				Editorial	Comment	Type G			Editorial		
Mail the parameters that apply to Mode A and Mode B are denoted with the suffix *mode(X) where 'X can be 'A or 'B' A parameter that ends with the suffix *mode(X) where 'X can be 'A or 'B' A parameter that ends with the suffix *mode(X) may have different values for Mode A and Mode B in the independent state diagrams. PDs. Unless there is some other information (which I can't see), this repetition is unnecessary and may confuse readers. Suggested/Remedy Delete this subclause. C REJECT. This comment is out of scope and does not fix something that is technically broken. This comment is out of scope and does not fix something that is technically broken. Yes and the solutions			se is equivalent to what w	was already writter	n in the last par	ragraph of	Subcla	uses 145.3.3.3 th	rough 145.3.3.7 discu	iss single-signature F	PDs.		
 "_mode/X)" may have different values for Mode A and Mode B in the independent state diagrams." Unless there is some other information (which I can't see), this repetition is unnecessary and may confuse readers. Suggested/Remedy Delete this subclause. Response Method S and Mode B in the independent state diagrams REJECT. This comment is out of scope and does not fix something that is technically broken. He does not fix something that is technically broken. He does not fix something that is technically broken. He does not fix something that is technically broken. He does not fix something that is technically broken. He does not fix something that is technically broken. He does not fix something that is technically broken. He does not fix something that is technically broken. He does not fix something that is technically broken. Hou-signature PD state diagram He does not fix something that is technically broken. He does not fix something that is technically broken. He does not fix something that is technically broken. He does not fix something that is technically broken. He does not fix something that is technically broken. He does not fix something that is technically broken. He does not fix something that is technically broken. He does not fix something that is technically broken. He does not fix something that is technically broken. He does not fix something that is technically broken. He does not fix something that is technically broken. He does not fix something that is technically broken. He does not fix something that is technically broken. He does not fix something that is technically broken. He does not fix so	'All the p	parameters that						uses 145.3.3.4 th	rough 145.3.3.12 are	the equivalent of the	above for dual-signature		
and may confuse readers. Suggester/Remedy Delete this subclause. Response Response Status C Ceate a subclause hierarchy as follows: Create a subclause hierarchy as follows: Create a subclause hierarchy as follows: Ceate a subclause hierarchy as follows: Ceate a subclause hierarchy as follows: Ceate a subclause hierarchy as follows: REJECT. This comment is out of scope and does not fix something that is technically broken. This comment is out of scope and does not fix something that is technically broken. Ceate as ubclause hierarchy as follows: Ceate as ubclaus	"_mode	X)" may have o				nt state	separa	te these clauses					
Suggested/Remedy Delete this subclause. Create a subclause hierarchy as follows: Response Response Status C REJECT. 145.3.3.3 Cingle-signature PD state diagrams This comment is out of scope and does not fix something that is technically broken. 145.3.3.4 Functions 145.3.3.4 Lonstants 145.3.3.4 Functions 145.3.3.4 Functions 145.3.3.4 Functions 145.3.3.4 Dual-signature PD state diagram 145.3.3.4 Functions 145.3.3.4 Functions 145.3.3.3 (and change to "diagram" shown in Figure 145-26 and Figure 145-28 and Figure 1				can't see), this rep	etition is unne	cessary							
Delete this subclause. 145 3.33 Single-signature PD state diagrams Response Response Status C REJECT. 145 3.3.31 Constants 145 3.3.31 Constants This comment is out of scope and does not fix something that is technically broken. 145 3.3.35 State diagram 145 3.3.34 Functions 145 3.3.41 Constants 145 3.3.35 State diagram 145 3.3.34 Functions 145 3.3.42 Variables 145 3.3.45 Constants 145 3.3.43 Timers 145 3.3.41 Constants 145 3.3.42 Variables 145 3.3.45 Turctions 145 3.3.43 Timers 145 3.3.42 Variables 145 3.3.42 Variables 145 3.3.45 Turctions 145 3.3.45 Turctions 145 3.3.45 Turctions 145 3.3.45 Variables 145 3.3.45 Turctions 145 3.3.45 Turctions 145 3.3.45 Variables 145 3.3.45 Variables 145 3.3.45 Variables 145 Single-signature PDs shall provide the behavior of the state diagram shown in Figure 145-27 + to the new 145.3.3.4 (metric) Consider also moving the following text from 145.3.3.4 (metric) "Single-signature PDs ()" (the whole second paragraph) to the new 145.3.3.4. Response Response Response Status C ACCEPT IN PRINCIPLE. Create a subclause hierarchy as follows: 145 3.3.3.1 Functions 145 3.3.3.1 Functions 145 3.3.3.1 Functions 145 3.3.3.1 Functions </td <td></td> <td>•</td> <td></td> <td></td> <td></td> <td></td> <td>Create</td> <td>a subclause hier</td> <td>archy as follows:</td> <td></td> <td></td>		•					Create	a subclause hier	archy as follows:				
Response Response Status C 145.3.3.2 Variables REJECT. 145.3.3.3 Timers 145.3.3.3 Timers This comment is out of scope and does not fix something that is technically broken. 145.3.3.4 Functions 145.3.3.4 Functions 145.3.3.4 Constants 145.3.3.4 Functions 145.3.3.4 Functions 145.3.3.4 Functions 145.3.4 Variables 145.3.4 Functions 145.3.4 Functions 145.3.4 Functions 145.3.4 A Functions 145.3.4 Functions 145.3.4 Functions 145.3.4 Functions 145.3.4 A Functions 145.3.4 Functions 145.3.3.4 Functions 145.3.3.4 Functions 145.3.4 A Functions 145.3.4 Functions 145.3.3.4 Functions 145.3.3.4 Functions 145.3.4 A Functions 145.3.3.4 Functions 145.3.3.4 Functions 145.3.3.4 Functions 145.3.3 A Functions 145.3.3.3 Finters Consider also moving the following text from 145.3.3: Image: Finter Fint		-					145.3.	3.3 Single-signatu	ire PD state diagrams				
REJECT. 145.3.3.3 J trainedus This comment is out of scope and does not fix something that is technically broken. 145.3.3.3 Financian 145.3.3.3 S tate diagram 145.3.3.3 S tate diagram 145.3.3.4 Constants 145.3.3.4 Constants 145.3.3.4 Tomosion 145.3.3.4 Tomosion 145.3.3.4 S Timers 145.3.3.4 S Timers 145.3.3.4 S Timers 145.3.3.4 S Timers 145.3.3.4 S Timers 145.3.3.4 S Timers 145.3.3.4 S Timers 145.3.3.4 Constants 145.3.3.4 S Timers 145.3.3.4 S Timers 145.3.3.4 S Timers 145.3.3.4 Financions 145.3.3.4 Financions 145.3.3.4 Financions 145.3.3.4 S Timers 145.3.3.4 Financions 145.3.3.4 S Timers 145.3.3.4 Financions 145.3.3.4 S Timers 145.3.3.3 (and change to "diagrams" per other comment) "Dual-signature PDs shall provide the behavior of the state diagram shown in Figure 145-26 and Figure 145-26 and Figure 145-3.3.3 (and change to "diagrams" per other comment) "Dual-signature PDs ()" (the whole second paragraph) to the new 145.3.3.4. Response Response Status C ACCEPT IN PRINCIPLE. Create a subclause hierarchy as follows: 145.3.3.3.1 Constants 145.3.3.3.1 Constants	Response								-				
This comment is out of scope and does not fix something that is technically broken. 145.3.3.4 State diagram 145.3.3.4 Dual-signature PD state diagram 145.3.3.4.1 Constants 145.3.3.4.1 Constants 145.3.3.4.2 Variables 145.3.3.4.3 Timers 145.3.3.4.4 Functions 145.3.3.4.4 Functions 145.3.3.4.4 Functions 145.3.3.4.5 State diagram 2000 the following text from 145.3.3.5 State diagram 2000 the state diagram shown in Figure 145.26 and Figure 145-27" - to the new 145.3.3.3.3 (and change to "diagrams" per other comment) "Dual-signature PDs ()" (the whole second paragraph) to the new 145.3.3.4. Response Response Status C ACCEPT IN PRINCIPLE. Create a subclause hierarchy as follows: 145.3.3.3 Single-signature PD state diagram solutions 145.3.3.1 Constants 145.3.3.3 Timers 145.3.3.3 Timers 145.3.3.3 Timers 145.3.3.3 Functions 145.3.3.3 F	•												
145.3.3.4 Dual-signature PD state diagram 145.3.3.4.1 Constants 145.3.3.4.2 Variables 145.3.3.4.3 Timers 145.3.3.4.4 Functions 145.3.3.4.5 State diagram Consider also moving the following text from 145.3.3: "Single-signature PDs shall provide the behavior of the state diagram shown in Figure 145- 26 and Figure 145-27" - to the new 145.3.3.3 (and change to "diagrams" per other comment) "Dual-signature PDs ()" (the whole second paragraph) to the new 145.3.3.4. <i>Response Response Status</i> C ACCEPT IN PRINCIPLE. Create a subclause hierarchy as follows: 145.3.3.3 Single-signature PD state diagrams 145.3.3.3 Timers 145.3.3.3 Timers 145.3.3.3 Timers 145.3.3.3 Timers 145.3.3.3 Functions 145.3.3.3 Functions	This comment is out of scope and does not fix something that is technically broken.					145.3.3.3.4 Functions							
145.3.3.4.2 Variables 145.3.3.4.2 Variables 145.3.3.4.3 Timers 145.3.3.4.3 Timers 145.3.3.4.5 State diagram 145.3.3.4.5 State diagram 145.3.3.4.5 State diagram 145.3.3.4.5 State diagram the period of the state diagram shown in Figure 145- 26 and Figure 145-27" - to the new 145.3.3.3 (and change to "diagrams" per other comment) "Dual-signature PDs ()" (the whole second paragraph) to the new 145.3.3.4. <i>Response</i> ACCEPT IN PRINCIPLE. Create a subclause hierarchy as follows: 145.3.3.3 Single-signature PD state diagrams 145.3.3.3 Unostants 145.3.3.3 Timers 145.3.3.3 Timers 145.3.3.3 Functions 145.3.3.3 Functions					en.								
145.3.3.4.3 Timers 145.3.3.4.4 Functions 145.3.3.4.5 State diagram Consider also moving the following text from 145.3.3: "Single-signature PDs shall provide the behavior of the state diagram shown in Figure 145-26 and Figure 145-27" - to the new 145.3.3.3 (and change to "diagrams" per other comment) "Dual-signature PDs ()" (the whole second paragraph) to the new 145.3.3.4. <i>Response Response Status</i> C ACCEPT IN PRINCIPLE. Create a subclause hierarchy as follows: 145.3.3.3 Constants 145.3.3.3 Timers 145.3.3.3 State diagram							145.3.	3.4.1 Constants					
145.3.3.4.4 Functions 145.3.3.4.5 State diagram Consider also moving the following text from 145.3.3: "Single-signature PDs shall provide the behavior of the state diagram shown in Figure 145- 26 and Figure 145-27" - to the new 145.3.3.3 (and change to "diagrams" per other comment) "Dual-signature PDs ()" (the whole second paragraph) to the new 145.3.3.4. <i>Response</i> <i>Response Status</i> C ACCEPT IN PRINCIPLE. Create a subclause hierarchy as follows: 145.3.3.3 Single-signature PD state diagrams 145.3.3.3 Timers 145.3.3.3 Timers 145.3.3.3 Timers													
145.3.3.4.5 State diagram Consider also moving the following text from 145.3.3: "Single-signature PDs shall provide the behavior of the state diagrams hown in Figure 145-26 and Figure 145-27" - to the new 145.3.3.3 (and change to "diagrams" per other comment) "Dual-signature PDs ()" (the whole second paragraph) to the new 145.3.3.4. Response Response Status CCEPT IN PRINCIPLE. Create a subclause hierarchy as follows: 145.3.3.3 Single-signature PD state diagrams 145.3.3.3 Timers 145.3.3.3 Functions 145.3.3.3 Functions 145.3.3.4 Functions 145.3.3.5 State diagram													
"Single-signature PDs shall provide the behavior of the state diagram shown in Figure 145- 26 and Figure 145-27" - to the new 145.3.3.3 (and change to "diagrams" per other comment) "Dual-signature PDs ()" (the whole second paragraph) to the new 145.3.3.4. <i>Response Response Status</i> C ACCEPT IN PRINCIPLE. Create a subclause hierarchy as follows: 145.3.3.3 Single-signature PD state diagrams 145.3.3.3.1 Constants 145.3.3.3.2 Variables 145.3.3.3.4 Finctions 145.3.3.3.5 State diagram									m				
26 and Figure 145-27" - to the new 145.3.3.3 (and change to "diagrams" per other comment) "Dual-signature PDs ()" (the whole second paragraph) to the new 145.3.3.4. <i>Response</i> ACCEPT IN PRINCIPLE. Create a subclause hierarchy as follows: 145.3.3.3 Single-signature PD state diagrams 145.3.3.3.1 Constants 145.3.3.3.2 Variables 145.3.3.3.4 Functions 145.3.3.3.5 State diagram							Consider also moving the following text from 145.3.3:						
Response Response Status C ACCEPT IN PRINCIPLE. Create a subclause hierarchy as follows: 145.3.3.3 Single-signature PD state diagrams 145.3.3.1 Constants 145.3.3.2 Variables 145.3.3.3 Timers 145.3.3.4 Functions 145.3.3.5 State diagram							26 and	l Figure 145-27" -					
ACCEPT IN PRINCIPLE. Create a subclause hierarchy as follows: 145.3.3.3 Single-signature PD state diagrams 145.3.3.1 Constants 145.3.3.2 Variables 145.3.3.3 Timers 145.3.3.3 Timers 145.3.3.3 Functions 145.3.3.5 State diagram							"Dual-	signature PDs ())" (the whole second p	paragraph) to the new	/ 145.3.3.4.		
Create a subclause hierarchy as follows: 145.3.3.3 Single-signature PD state diagrams 145.3.3.1 Constants 145.3.3.2 Variables 145.3.3.3 Timers 145.3.3.3 Functions 145.3.3.5 State diagram							Response		Response Status	>			
145.3.3.3 Single-signature PD state diagrams 145.3.3.1 Constants 145.3.3.2 Variables 145.3.3.3 Timers 145.3.3.4 Functions 145.3.3.5 State diagram							ACCE	PT IN PRINCIPLE					
145.3.3.3.1 Constants 145.3.3.3.2 Variables 145.3.3.3 Timers 145.3.3.3.4 Functions 145.3.3.5 State diagram							Create	a subclause hier	archy as follows:				
145.3.3.2 Variables 145.3.3.3 Timers 145.3.3.3.4 Functions 145.3.3.5 State diagram							145.3.3.3 Single-signature PD state diagrams						
145.3.3.3 Timers 145.3.3.3.4 Functions 145.3.3.5 State diagram													
145.3.3.3.4 Functions 145.3.3.5 State diagram													
5													
145.3.3.4 Dual-signature PD state diagram								0					
							145.3.	3.4 Dual-signature	e PD state diagram				
TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general Pa 178 Page 89 of 130	TYPE: TR/te	echnical require	d ER/editorial required	GR/general require	ed T/technical	E/editorial G/o	general			Pa 178	Page 89 of 130		

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Page, Line Page 89 of 130 12/1/2017 3:17:48 PM

Li 13

145.3.3.4.1 Constants 145.3.3.4.2 Variables	C/ 145 SC 14	5.3.3.4	P178	L 39	# r01-449			
145.3.3.4.3 Timers	Darshan, Yair							
145.3.3.4.4 Functions 145.3.3.4.5 State diagram	Comment Type	T Commer	nt Status A		Pres: Yseboodt8			
		power is not clearly						
move the following text from 145.3.3:		indicates the PD ha			licates VPD was below			
"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)	TReset. Values: FALSE: The PD) has not been in NOPO	OPOWER.					
"Dual-signature PDs (.)" (the whole second paragraph) to the new 145.3.3.4.	Few issues:							
C/ 145 SC 145.3.3.3 P178 L 26 # r01-223	1. Vreset need t	o be Vreset_PD.						
Yseboodt, Lennart Philips Lighting	2. Better text ne	eded to clarify when here in a powering	re it is used (Hov	v we can be belo	w Voff_PD while being			
Comment Type E Comment Status A Editorial	SuggestedRemedy		State actually)					
Variable name "VReset_PD max" is the only variable with a space in the name.	1. Change to:							
SuggestedRemedy	"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							
Change name to "VReset_PD_max" and update usage in PD state diagrams.								
Response Response Status C ACCEPT.	least Treset. Values:							
	FALSE: The PD	has not been in N						
C/ 145 SC 145.3.3.4 P178 L 39 # r01-450		has been in NOPO mode(X) variable i		he variable list. T	his is covered by the			
Darshan, Yair	comment marke	ed nopower_mode()	<). If this comme		ed, to make sure that			
Comment Type T Comment Status A Nopower	0 0	e are used in both v						
This comment is marked nopower_mode(X). The variable nopower_mode(X) is missing from the variable list.	Response		e Status C					
Suggested Remedy	ACCEPT IN PR	INCIPLE.						
Add the following variable to 145.3.3.4 nopower_mode(X)	adopt changes a http://www.ieee	shown in 802.org/3/bt/public/r	nov17/yseboodt_	_08_1117_final.p	df			
A variable that indicates the PD has been in NOPOWER over mode (X), which indicates VPD was below VOff_PD while being in powering state, since the last time VPD was below VReset_PD for at least TReset. Values: FALSE: The PD has not been in NOPOWER.	This resolution i	s identical to comm	ent #227.					
FALSE: The PD has been in NOPOWER.								
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.								

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

Pa 178 Li 39

C/ 145 SC 145.3.3.3 P178 L41	# r01-347	C/ 145 SC 145.3.3.	3 P178	L 45	# r01-348		
Stewart, Heath Analog Devices Inc.		Stewart, Heath	Analog Devic	ces Inc.			
Comment Type E Comment Status A	Nopower	Comment Type TR	Comment Status A		Nopower		
The use of the NOPOWER state is not clearly communicated.		There are two false er	ntries for nopower. This is cert	tainly a typo.			
SuggestedRemedy		SuggestedRemedy					
Add to end of description: When nopower is TRUE interoperability between PSE and PD is i	no longer guaranteed.	Change FALSE: The PD has I	been in NOPOWER.				
Response Response Status C ACCEPT IN PRINCIPLE.		To TRUE: The PD has b	een in NOPOWER.				
ACCEPT IN PRINCIPLE.		Response	Response Status C				
adopt changes shown in		ACCEPT IN PRINCIP	LE.				
http://www.ieee802.org/3/bt/public/nov17/yseboodt_08_1117_fina This resolution is identical to comment #227.	ı.par	adopt changes shown http://www.ieee802.or	in g/3/bt/public/nov17/yseboodt_	_08_1117_final.p	df		
C/ 145 SC 145.2.5.7 P178 L44	# <u>r01-451</u>	This resolution is iden	tical to comment #227.				
Darshan, Yair		C/ 145 SC 145.3.3.	4 P 178	L 52	# r01-224		
Comment Type T Comment Status A		Yseboodt, Lennart	Philips Lightin	ng			
In the nopower variable text: Typo in the text "FALSE: The PD has should be "TRUE: The PD has been in NOPOWER."	S Deen in NOPOWER. IL	Comment Type E	Comment Status A		Editoria		
SuggestedRemedy		pd_acs_req: "This variable indicates whether the PD performs an Autoclass request during Physical Layer classification. See 145.3.6.2."					
Change from "FALSE: The PD has been in NOPOWER."		r nysiour Euyer olussii					
To: "TRUE: The PD has been in NOPOWER."			scription of what this variable	does.			
Response Response Status C		SuggestedRemedy					
ACCEPT IN PRINCIPLE. adopt changes shown in		Replace by: "This variable indicate after reaching POWE	s if a PD will draw P_Autoclas RED. See 145.3.6.2."	ss_PD in the Aut	oclass time window		
http://www.ieee802.org/3/bt/public/nov17/yseboodt_08_1117_fina	l.pdf	Response	Response Status C				
This resolution is identical to comment #227.		ACCEPT IN PRINCIP	•				
		Replace by: "This variable indicate reaching POWERED.	s if a PD draws P_Autoclass_ See 145.3.6.2."	_PD in the Autocl	ass time window after		

Pa **178** Li **52**

C/ 145 SC 145.3.3.3 Yseboodt, Lennart	P 180 Philips Lighting	L 52	# r01-225	Cl 145 So Stewart, Heath	C 145.3.3.5	P 181 Analog Devic	L 27 es Inc.	# r01-350
<i>Comment Type</i> E VPD is not in alphabeti	Comment Status A cally correct place.		Editorial		signature tpo	Comment Status A werdly_timer description ha	s become out o	<i>PD SD</i> f sync with the dual
SuggestedRemedy Move "VPD" after "VOr	1 PD".			signature de		on the PSE inrush limiting fo	r the entire tinru	ish_PD time (50ms).
Response ACCEPT.	Response Status C			SuggestedRem Change	edy	the PD from drawing more t		_ 、 ,
Cl 145 SC 145.3.3.5 Stewart, Heath Comment Type TR	P181 Analog Devices Comment Status A	L 25 Inc.	# r01-349	during theP to A timer use	SE's inrush d to prevent	the PD from drawing more to the PD from drawing more to elay. See Table 145-29.	145-29. [—]	_
A PD is allowed to rely	on the PSE inrush limiting for t prrectly to tInrush_PD max.	he entire tinru		Response ACCEPT.		Response Status C		
Change "tInrush_PD" to Also change on page 1				C/ 145 So Yseboodt, Lenn	C 145.3.3.6 art	P 181 Philips Lightir	L 50	# <u>r01-226</u>
Response Response Status C ACCEPT IN PRINCIPLE. adopt changes shown in http://www.ieee802.org/3/bt/public/nov17/yseboodt_08_1117_final.pdf			df	This variabl A double de	n do_update e is also def efinition need	Comment Status A _pse_assigned_class return ined in the variables section ds to be kept in perfect sync to point to the variable than	145.3.3.4. or it can lead to	_ 0 _
This resolution is identi	cal to comment #227.				ge 181 line {	50 through page 182 line 5 b ee 'pse_assigned_class' de <i>Response Status</i> C		.4."

Pa **181** Li **50**

C/ 145 SC 145.3.3.7		L 22	# r01-321	C/ 145	SC 145.3.3.7	P184	L 30	# r01-452
bramson, David	Texas Instrum	ients Inc		Darshan, '				
Comment Type TR	Comment Status D		PD SD	Comment		omment Status A		Pres: Yseboodt8
In order to allow for the allow for possibly valid	e mark change in my other co detect signatures.	mments, we ne	ed to change the SD to	NOPC	WER state and going	ngle signature (and dua back to INRUSH and b	ack to POWER_	_DELAY.
SuggestedRemedy						timer when going from F on due to the assignme		
in state DO_CLASS_E change "present_det_s to:				3) Allo sensit	wing incompliant beha ive to 2nd inrush coun	avior of PDs that doesn	Ot lock their clas	s event counter and and the need for this but
IF pd_req_class>3 present_det_sig=invali	d			lf PD	didnOt lost its data wh	en going to Vpd < Voff_ NOPOWER spec so the	_pd, it doesnOt r	need to set
ELSE				destro	_ ,		o oon oot accigite	
present_det_sig=eithe	r				s of issue 1:			
END						5msec and transitioning		DELAY to NOPOWER
Proposed Response	Response Status Z					sets nopower variable to		30msec) when returning
REJECT.						INRUSH and POWER_		
This commont was W/		-				s still in INRUSH state.		
This comment was wi	THDRAWN by the commente	1.				IRUSH state twice in the		
						never Vpd is lowered be	_	
					dless of the time VPD	a transition to NOPOW	ER state, then ra	alsed above von_pd
						PD = 0 to 25ms, then the	e PD state-mach	nine will do the
				transit	ion from INRUSH to P	OWER_DELAY to NOF	OWER to INRU	JSH to
					ER_DELAY to POWER			
				INRU	SH.	which is minimum 80m	s and may overl	oad PSE by PD during
					issue in dual-signatur	e PD state machine.		
					s of issue 2: NOPOWER state, the	assignment "pse_powe	or lovol ~8" w	ill cause PD to have
					vailable_power=8 eve	n if originally prior to get	—	
				As lor	g as VPD>VReset_th	, PD remembers its data may think that we have		nts why we add it in the sevent when
						R to INRUSH again. Th		
						itself to ignore additiona	al counts after fir	st time going through
					. Any way, we have bi	0		
						lock class event countir case in the field as well		
						onal as function if we lo		
								they behaves correctly.
				In add	ition, we need to add t	text that explains that th	e NOPOWER st	tate was meant to be
						and not as the typical b	ehaviour otherw	ise we by pass the
					ory requirements of the		anniant DD	r DDo that thair
						o allow supporting non- aking the state machine		
						npliant PDs doesnOt ha		
YPE: TR/technical require	ed ER/editorial required GR/	neneral required	T/technical E/editorial			Pa 18		Page 93 of 13

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Pa 184
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 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 Li 30
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 12/1/2017 3:17:48 PM

noncompliant way by violating other spec requirements.

Below is proposal to support those PDs without creating problems to PDs that behaves correctly.

SuggestedRemedy

1. In the exit from POWER_DELAY to NOPOWER and in the exit from POWERED to NOPOWER, change the condition from VPD < VOff_PD to (VPD < VOff_PD)*go2nopower. 2. Add the new variable go2nopower:

go2nopower

Implementation specific variable that indicates if PD will go to NOPOWER in case VPD < VOff_PD during POWER_DELAY or POWERED.

Values

FALSE PD will not use NOPOWER in case VPD < VOff_PD during POWER_DELAY or POWERED

TRUE PD will use NOPOWER in case VPD < VOff_PD during POWER_DELAY or POWERED

3. Repeat only steps 1 for dual-signature PD in page 190 for the above states.

4. [This solution allow not using pse_power_level <==8 in case PD didn't lost its data or change its data during the transition to POWER_DELAY through NOPOWER)] Append the following text to the definition of nopower variable:

"If pse_power_level data was not lost or changed in the event of transitioning to

POWER_DELAY through NOPOWER, the assignment pse_power_level<==8 may not be implemented in NOPOWERO

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	SC 145.3.3.7	P 184	L 30	# r01-227
Yseboodt, Le	ennart	Philips Lighting		
Comment Ty	pe TR	Comment Status A		Pres: Yseboodt8

There is a possibility for intentional abuse of the NOPOWER state in the PD state diagram. A PD can exit the INRUSH state at any time less than 50ms to POWER_DELAY. If it does so while the PSE is still in inrush, and VPD is less than Voff_pd, the state diagram loops through NOPOWER and defeats classification. It is PD undemotion essentially.

To close this hole we need to remove the arc from POWER_DELAY to NOPOWER.

SuggestedRemedy

Remove the arc from POWER_DELAY to NOPOWER.Same fix in the dual-signature state diagram.

Response Response Status C

ACCEPT IN PRINCIPLE.

adopt changes shown in http://www.ieee802.org/3/bt/public/nov17/yseboodt_08_1117_final.pdf

C/ 145	SC 145.3.3.7	P184	L 30	# r01-314	signati	ure PD in page	190 and update	variable list acc	ordingly.	
Peker, Arkadi		Microsemi (" 101 314	Response		Response S	Status C		
Comment Typ	, ,	Comment Status A	e or p or a mort	Pres: Yseboodt8	ACCE	PT IN PRINCIP	PLE.			
PD state r uncomplia -If PD PI v	machine (and ant behavior. V voltage is drop	any other state machine) Ve have infinite numbers due to overload or short s power consumption to P	of them. circuit, this PD is n	ntain states to describe ot compliant since the	http://v		n in rg/3/bt/public/no ntical to commer		3_1117_final.p	df
compliant	PSE.	p for a duration longer that		-	C/ 145	SC 145.3.3	.7	P184	L 38	# r01-453
		v VPD <voff_pd pd<="" td="" while=""><td></td><td>on-compliant behavior.</td><td>Darshan, Y</td><td>/air</td><td></td><td></td><td></td><td></td></voff_pd>		on-compliant behavior.	Darshan, Y	/air				
-Specifica	ally, if this beha	ot be described in the PD avior cause violation of oth		the spec, it should be	Comment	51	Comment S			Editorial
	or corrected.	e PD state machine legad	v PD behavior and	t newly designs of	Missin	g parenthesis i	n POWERED st	ate in pd_req_cl	ass > 3	
		ut we should not force this			Suggested	lRemedy				
	e NOPOWER	state route creates new n					_class > 3 + pd_c s > 3) + pd_dll_c		EN"	
		lay_timer when going fron			Response		Response S	Status C		
		ndition due to the assignm have this problem.	ient of (pse_power	ſ_level <== 8)	ACCE	PT.				
		the NOPOWER state or	to make the inputs	to it selectable by the				_	_	
implemen	nter.				C/ 145	SC 145.3.3	.8	P 185	L 30	# r01-228
SuggestedRei	medy				Yseboodt,	Lennart		Philips Lighting		
	OPWER state og the variable	from the PD state machin s associated with it.	e with all the inputs	s/outputs to it and from		51			changes to sir	PD SD ngle-signature, but fix
bypassing 2a. Delete 2b) add th	g the 80msec t e the assignment ne following te	POWER_DELAY to NOPC imer.] ent pse_avail_pwr<==8 fro kt to the variable pse_pow o the value 8 is optional."	om the NOPOWER	state OR	Issue: Short s V_Mar voltage	k_th. Without hy		·		nplement hysteresis for k transitions due to the
" Option 3:							und 0.5V caused			
1. Make th variable. (he two inputs t Change the co	o NOPWER optional and ndition of these two inputs	s to (VPD <voff_pi< td=""><td></td><td colspan="6">It is compounded by the PD state diagram listing VMark_Th in the constants section, implying the value cannot change while the state diagram is running.</td></voff_pi<>		It is compounded by the PD state diagram listing VMark_Th in the constants section, implying the value cannot change while the state diagram is running.					
 Add the option_no 		on_nopower to the variable	e list.		Suggestea	lRemedv				
Implemen	ntation specific	variable that indicates if F R_DELAY or POWERED.		OWER in case VPD <	00	e VMark_th, VC	0ff_PD, VOn_PD	, VReset_th fror	n 145.3.3.8 (co	onstants) to 145.3.3.9
Values					- Chan	ige VReset_PD	to VReset_PD	_max		
POWERE		NOPOWER in case VPD	o < VOTT_PD during	J POWER_DELAY OF	Response		Response S	Status C		
-	D will use NO	POWER in case VPD < V	Off_PD during PO	WER_DELAY or	ACCE	PT.				
After sele	cting one of th	e proposed solutions or a	nv other solution. F	Repeat it for dual-						
After sele	cting one of th	e proposed solutions or a		Repeat it for dual- I T/technical E/editorial G/o	neneral			Pa 185		Pag

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

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Li **30**

IEEE P802.3bt D3.1 4-Pair PoE 1st Sponsor recirculation ballot of	comments
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Cl 145 SC 145.3.3.8 P 185 L 40 # [r01-351] Stewart, Heath Analog Devices Inc. Figure 100 - 30	C/ 145 SC 145.3.3.8 P 185 L 49 # r01-229 Yseboodt, Lennart Philips Lighting Philips Lighting Philips Lighting Philips Lighting					
Comment Type E Comment Status A PD SD A bunch of constants were moved from the PD single-signature constants section to the	Comment Type T Comment Status A PD S. Variable "VReset PD" needs to be updated to match single-signature.					
variables section. Do the same for dual-signatures. SuggestedRemedy Move Vmark th, Voff PD, Von PD and Vreset tb to variables subclause.	SuggestedRemedy Change variable name to "VReset_PD_max" and update description to match single- signature, also change name in statediagram.					
Response Response Status C ACCEPT IN PRINCIPLE.	Response Response Status C ACCEPT.					
 Move VMark_th, VOff_PD, VOn_PD, VReset_th from 145.3.3.8 (constants) to 145.3.3.9 (variables) Change VReset_PD to VReset_PD_max 	Cl 145 SC 145.3.3.9 P 186 L 11 # r01-353 Stewart, Heath Analog Devices Inc. #					
This resolution is identical to comment #228.	Comment Type TR Comment Status A PD S The nopower_mode(X) variable is not defined. Copy the nopower variable description and implement.					
C/ 145 SC 145.3.3.8 P 185 L 47 # r01-352 Stewart, Heath Analog Devices Inc. Analog Devices Inc. <td< td=""><td>SuggestedRemedy</td></td<>	SuggestedRemedy					
Comment Type E Comment Status A PD SD Changes were made to Vreset_PD in the single-signature PD constant description and should be mirrored in the dual-signature PD constants section. SuggestedRemedy SuggestedRemedy Change VReset_PD Reset voltage per pairset to	Insert variable definition: nopower_mode(X) A variable that indicates the PD has been in NOPOWER, which indicates VPD_mode(X) was below VOff_PD while being powered, since the last time VPD_mode(X) was below VReset for at least TReset. When nopower is TRUE interoperability between PSE and PD is no longer guaranteed. Values: FALSE: The PD mode has not been in NOPOWER. TRUE: The PD mode has been in NOPOWER.					
VReset_PD maximum The maximum PD reset voltage Response Response Status C ACCEPT IN PRINCIPLE.	Response Response Status C ACCEPT IN PRINCIPLE.					
Change variable name to "VReset_PD_max" and update description to match single- signature, also change name in statediagram.	adopt changes shown in http://www.ieee802.org/3/bt/public/nov17/yseboodt_08_1117_final.pdf					
This resolution is identical to comment #229.	This resolution is identical to comment #227.					

Pa **186** Li **11**

IEEE P802.3bt D3.1 4-Pair Pc	E 1st Sponsor	r recirculation ballot comments
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% 145 SC 145.3.3.9 P 186 L 11 # r01-454 varshan. Yair P	C/ 145 SC 145.3.3.9 P 186 L 12 # r01-230 Yseboodt, Lennart Philips Lighting Philips Lighting Philips Lighting Philips Lighting
Comment Type T Comment Status A PD	
The variable pd_current_limit_mode(X) should not be used. See other comments where i was deleted from the state machine.	
uggestedRemedy	SuggestedRemedy
Remove the variable pd_current_limit_mode(X) from the variable list in 145.3.3.9	Remove pd_current_limit_mode(X) in 145.3.3.9 and remove it's use in the dual-sig state
Response Response Status C	diagram.
ACCEPT IN PRINCIPLE.	Response Response Status C
	ACCEPT.
Remove pd_current_limit_mode(X) in 145.3.3.9 and remove it's use in the dual-sig state	
diagram.	C/ 145 SC 145.3.3.9 P186 L 17 # r01-231
This resolution is identical to comment #230.	Yseboodt, Lennart Philips Lighting
	Comment Type T Comment Status A PD S
C/ 145 SC 145.3.3.9 P 186 L 11 # r01-354 tewart, Heath Analog Devices Inc. Finite Content of the second s	Variables "pd_dll_capable_mode(X)" and "pd_dll_enable_mode(X)" do not need the "mode" part.
Comment Type E Comment Status A PD	SD SuggestedRemedy
The pd_current_limit variable was removed from the single-signature state machine but was not removed from the dual-signature state machine.	Change variables to "pd_dll_capable" and "pd_dll_enable". Remove reference to "Mode(X)" from descriptions.
turgested Domedu	Response Response Status C
uquesteuremeuv	
SuggestedRemedy Remove variable definition pd_current_limit_mode(X) definition and from Figure 145-28 OFFLINE_IDLE_INRUSH_NOPOWER_POWER_DELAY and	ACCEPT.
Remove variable definition pd_current_limit_mode(X) definition and from Figure 145-28 OFFLINE, IDLE, INRUSH, NOPOWER, POWER_DELAY and	ACCEPT.
Remove variable definition pd_current_limit_mode(X) definition and from Figure 145-28 OFFLINE, IDLE, INRUSH, NOPOWER, POWER_DELAY and POWERED states.	ACCEPT. C/ 145 SC 145.3.3.11 P188 L 26 # r01-232
Remove variable definition pd_current_limit_mode(X) definition and from Figure 145-28 OFFLINE, IDLE, INRUSH, NOPOWER, POWER_DELAY and POWERED states. Response Response Status C	ACCEPT. P188 L 26 # r01-232 Cl 145 SC 145.3.3.11 P188 L 26 # r01-232 Yseboodt, Lennart Philips Lighting Philips Lighting Philips Lighting
Remove variable definition pd_current_limit_mode(X) definition and from Figure 145-28 OFFLINE, IDLE, INRUSH, NOPOWER, POWER_DELAY and POWERED states. Response Response Status C ACCEPT IN PRINCIPLE. Remove pd_current_limit_mode(X) in 145.3.3.9 and remove it's use in the dual-sig state	ACCEPT. Cl 145 SC 145.3.3.11 P188 L 26 # r01-232 Yseboodt, Lennart Philips Lighting Editors Comment Type ER Comment Status A Editors The function do_update_pse_assigned_class_mode(X) returns the variable pse_assigned_class_mode(X). Editors
Remove variable definition pd_current_limit_mode(X) definition and from Figure 145-28 OFFLINE, IDLE, INRUSH, NOPOWER, POWER_DELAY and POWERED states. Response Response Status C ACCEPT IN PRINCIPLE. Remove pd_current_limit_mode(X) in 145.3.3.9 and remove it's use in the dual-sig state diagram.	ACCEPT. Cl 145 SC 145.3.3.11 P 188 L 26 # r01-232 Yseboodt, Lennart Philips Lighting Editors Comment Type ER Comment Status A Editors The function do_update_pse_assigned_class_mode(X) returns the variable pse_assigned_class_mode(X). This variable is also defined in the variables section 145.3.3.9. A double definition needs to be kept in perfect sync or it can lead to ambiguity. It would be better simply to point to the variable than re-describe it.
Remove variable definition pd_current_limit_mode(X) definition and from Figure 145-28 OFFLINE, IDLE, INRUSH, NOPOWER, POWER_DELAY and POWERED states. Response Response Status C ACCEPT IN PRINCIPLE. Remove pd_current_limit_mode(X) in 145.3.3.9 and remove it's use in the dual-sig state diagram.	ACCEPT. Cl 145 SC 145.3.3.11 P 188 L 26 # r01-232 Yseboodt, Lennart Philips Lighting Editoria Comment Type ER Comment Status A Editoria The function do_update_pse_assigned_class_mode(X) returns the variable pse_assigned_class_mode(X). This variable is also defined in the variables section 145.3.3.9. A double definition needs to be kept in perfect sync or it can lead to ambiguity.
Remove variable definition pd_current_limit_mode(X) definition and from Figure 145-28 OFFLINE, IDLE, INRUSH, NOPOWER, POWER_DELAY and POWERED states. Response Response Status C ACCEPT IN PRINCIPLE. Remove pd_current_limit_mode(X) in 145.3.3.9 and remove it's use in the dual-sig state diagram.	ACCEPT. Cl 145 SC 145.3.3.11 P188 L 26 # r01-232 Yseboodt, Lennart Philips Lighting Editors Comment Type ER Comment Status A Editors The function do_update_pse_assigned_class_mode(X) returns the variable pse_assigned_class_mode(X). This variable is also defined in the variables section 145.3.3.9. A double definition needs to be kept in perfect sync or it can lead to ambiguity. It would be better simply to point to the variable than re-describe it. SuggestedRemedy Replace page 188 line 26 to 33 by:

Pa **188** Li **26**

C/ 145 SC 145.3.3.12 P 189 L 1 # [r01-295] RAN, ADEE Intel Corporation Intel Corporation Intel Corporation Intel Corporation	C/ 145 SC 145.3.3.12 P 190 L 13 # r01-457 Darshan, Yair
Comment Type E Comment Status A Editorial For this case there is only one state diagram. E	Comment Type T Comment Status A PD SD In the state POWER_DELAY, pd_current_limit_mode(X) is not required. PD SD
SuggestedRemedy Change "diagrams" to "diagram".	SuggestedRemedy Remove "pd_current_limit_mode(X) < FALSE" from POWER_DELAY state.
Response Response Status C ACCEPT.	Response Response Status C ACCEPT IN PRINCIPLE.
C/ 145 SC 145.3.3.12 P 190 L 8 # r01-455 Darshan, Yair	Remove pd_current_limit_mode(X) in 145.3.3.9 and remove it's use in the dual-sig state diagram.
Comment Type T Comment Status A PD SD	This resolution is identical to comment #230.
In the exit from INRUSH to POWER_DELAY: Typo in timer name. Need to be tinrushpd_timer_done_mode(X) and not tinrush_timer_done_mode(X) SuggestedRemedy	C/ 145 SC 145.3.3.12 P 190 L 19 # r01-233 Yseboodt, Lennart Philips Lighting Philips Lighting
Change from "tinrush_timer_done_mode(X)" to "tinrushpd_timer_done_mode(X)" Response Response Status C ACCEPT.	Comment Type T Comment Status A PD SD In state "POWERED" the statement: "pd_max_power_mode(X) = min(pse_power_level_mode(X), pd_req_class_mode(X))" is wrong. The variable "pse_power_level_mode(X)" should be "pse_assigned_class_mode(X)".
C/ 145 SC 145.3.3.12 P190 L10 # r01-456 Darshan, Yair	SuggestedRemedy Change to "pd_max_power_mode(X) = min(pse_assigned_class_mode(X), pd_req_class_mode(X))".
Comment Type T Comment Status A PD SD In the state INRUSH, pd_current_limit_mode(X) is not required. PD SD PD SD	Response Response Status C ACCEPT.
SuggestedRemedy Remove "pd_current_limit_mode(X) < FALSE" from INRUSH state.	C/ 145 SC 145.3.3.12 P 190 L 20 # r01-458 Darshan, Yair
Response Response Status C ACCEPT IN PRINCIPLE.	Comment Type T Comment Status A PD SD In the state POWERED, pd_current_limit_mode(X) is not required.
Remove pd_current_limit_mode(X) in 145.3.3.9 and remove it's use in the dual-sig state diagram.	SuggestedRemedy Remove "pd_current_limit_mode(X) < FALSE" from INRUSH state.
This resolution is identical to comment #230.	Response Response Status C ACCEPT IN PRINCIPLE.
	Remove pd_current_limit_mode(X) in 145.3.3.9 and remove it's use in the dual-sig state diagram.
	This resolution is identical to comment #230.
TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/	neneral Page 98 of 130

TYPE: TR/technical required ER/editorial required GR/gener	al required T/technical E/editorial G/general	Pa 190	Page 98 of 130
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	Li 20	12/1/2017 3:17:49 PM
SORT ORDER: Page, Line			

C/ 145 SC 145.3.3.12 P 190 L 21 # [r01-234] /seboodt, Lennart Philips Lighting	C/ 145 SC 145.3.4 P 191 L 17 # r01-298 RAN, ADEE Intel Corporation Intel Corporation Intel Corporation Intel Corporation
Comment Type T Comment Status A PD SD In state "NOPOWER" the variable "pd_max_power(X)" is missing the "mode". SuggestedRemedy SuggestedRemedy Change variable to "pd_max_power_mode(X)".	Comment Type T Comment Status A PD Detection I think a PD must not present a detection signature outside of the limits in the table, regardless of the reason (for example, it must also not happen when a PD tries to avoid detection). PD Detection
Response Response Status C ACCEPT.	Therefore, "that requests power" is an unneeded limitation. The corresponding text in 33.3.4 is stated differently, and can be used instead.
Cl 145 SC 145.3.3.11 P 190 L 29 # r01-355 Stewart, Heath Analog Devices Inc. Comment Type T Comment Status A PD SD	SuggestedRemedy Change from "A PD that requests power by presenting" to
In the single-signature state machine the pd_power_update is cleared in the POWERED state. In the dual-signature state machine the pd_power_update_mode(X) is cleared in the POWER_UPDATE state. This may cause a race condition.	"A PD that presents" Response Response Status C ACCEPT.
Move pd_power_update_mode(X) <= FALSE from POWER_UPDATE to POWERED Response Response Status C	Cl 145 SC 145.3.5 P 192 L 22 # r01-392 Stover, David Analog Devices Inc. From the second se
ACCEPT.	Comment Type TR Comment Status A Pres: Stover *** Comment submitted with the file 94876400003-stover_01_1117.pdf attached ***
C/ 145 SC 145.3.3.12 P 190 L 29 # r01-459 Darshan, Yair	Missing description of single-signature PD behavior for VPD < 10.1V
Comment Type T Comment Status A PD SD In the state POWER_UPDATE, pd_power_update_mode(X) is not required.	SuggestedRemedy Adopt stover_01_1117.pdf
SuggestedRemedy Remove "pd_power_update_mode(X) < FALSE" from POWER_UPDATE state.	Response Response Status W ACCEPT IN PRINCIPLE.
	Adopt changes shown as "alternative 2" on pages 7 and 8 of http://www.ieee802.org/3/bt/public/nov17/stover_01_1117_final.pdf
Response Response Status C ACCEPT IN PRINCIPLE.	

Pa **192** Li **22**

Cl 145 SC 145.3.6 P 195 L 12 # [r01-319] Abramson, David Texas Instruments Inc	C/ 145 SC 145.3.6.1.1 P 196 L 22 # r01-320 Abramson, David Texas Instruments Inc Texas Instruments Instruments Instruments Instruments Instruments Instruments Instruments Ins
Comment TypeTRComment StatusDPD MarkThe group has expressed a desire to deprecate clause 33 in the future. I have found one case in which the clause 145 makes it harder/more expensive to build a compliant PD (without any real benefit) and thus I doubt users would move over the Type 3 and thus clause 33 would never be deprecated.The case is that of Type 1 PDs. Clause 145 currently requires all Type 3 PDs to include a mark signature, even class 1-3 PDs. This is a burden to the PD and we can elimate it easily.I suggest that we only lower the minimum Mark Current for Class 1-3 Type 3 PDs which would allow the detect circuit already present in these PDs to be a compliant mark current.	Comment TypeTRComment StatusDPD Mark"When the PD is presenting a mark event signature in a DO_MARK_EVENT state, as shown in the state diagram of Figure 145-26 and Figure 145-28, the PD shall draw IMark as defined in Table 145-25 and present a non-valid detection signature as defined in Table 145-22."This would prevent class 1-3 PDs from being able to show their detect signature during the MARK state. Since these PDs are not required to count the class events, this requirement should not apply to them (the reason for the requirement is that PDs that count class pulses can count an extra pulse if they have a valid signature during mark and if plugged in during a detect cycle).
SuggestedRemedy Split item 3 of table 145-25 into two rows. The first row for class 1-3 with a minimum of 180uA. The second row for classes 4-8, with a minimum of 250uA.	NOTE: I haven't considered DS PDs SuggestedRemedy Make this requirement only apply to class 4-8 PDs.
Proposed Response Response Status Z REJECT. This comment was WITHDRAWN by the commenter.	"When the PD is presenting a mark event signature in a DO_MARK_EVENT state, as shown in the state diagram of Figure 145-26 and Figure 145-28, the PD shall draw IMark as defined in Table 145-25 and Class 4-8 PDs shall present a non-valid detection signature as defined in Table 145-22."
	Proposed Response Response Status Z REJECT.
	This comment was WITHDRAWN by the commenter.

Pa **196** Li **22**

C/ 145 SC 145.3.6. RAN, ADEE	I.1 P196 Intel Corporat	L 34	# r01-299	<i>Cl</i> 145 Darshan, Ya	SC 145.3.6. 2 ir	2 P 196	L 46	# r01-460
Comment Type T	Comment Status A		PD Class	Comment Ty	rpe T	Comment Status D		PD Class
The newly inserted tey like a normative stater like a normative stater lf it is a normative requisite hysteresis is appropria Also, there may be wat As it stands, this seen stated as a recommer SuggestedRemedy Change "Appropriate hysteresis transitions"	It about hysteresis is stated in nent. uirement then it should include te (which would enable judgir ys other than hysteresis to av is to be a recommendation (w dation. s in the VMark_th threshold v uld employ appropriate metho	e a "shall" and a ig for complianc oid erroneous tr hich makes ser bltage is require	"is required to" sounds definition of what e). ansitions. se), so it should be d to avoid erroneous	In the tex power, F to the re have the Accordin autoclas accordin 1) When assigned 2) Now t more, up 3) PSE v Possible a) The fi it to the I b) (Prefe and limit used thr <i>SuggestedR</i> Change "After po PAutocla period be above V point und higher p PAutocla period be above V whon us highest r period be above V	At "After powe Autoclass_PI quirements or following issu- ing to the existi s power value g to the follow we negotiate d class will be he PD requess to to the maxim will enter to ov solutions: x for this is to PSE allocated erred, simpler) the value of t ough LLDP. emedy from: wwer up, a PD ass_PD, subje bounded by TA Port_PD-2P m sill VPD falls be ower level, up n 145.5." wer up, a PD ass_PD, subje bounded by TA Port_PD-2P m sing Autoclass required powe bounded by TA	r up, a PD that implements Au D, subject PClass_PD in 145.3.8.2, through in Autoclass text In 145.3.8.2 is the assigned class. This main ing example: power through LLDP and we 5 per table 145-12. ts Autoclass through LLDP and um of the assigned class=40\ erload condition/overpower ar limit autoclass power not accord power which is in the above er To keep it per the assigned c he autoclass power to the pse that implements Autoclass sh to the requirements on PCI UTO_PD1 and TAU-TO_PD2 nin. The PD shall not draw mo plow VReset_PD max, unless to the PD requested Class, th that implements Autoclass sh to the requirements on PCI UTO_PD1 and TAU-TO_PD2 nin. The PD shall not draw mo plow VReset_PD max, unless to the PD requested Class, th	all draw its hig ass_PD in 145 , measured from the PD succes rough Data Lir all draw its hig ass_PD in 145 , measured from the PD succes rough Data Lir all draw its hig ass_PD in 145 , measured from the PD succes rough Data Lir all draw its hig ass_PD in 145 , measured from	raw its highest required riod bounded by" we hat the limits of the overload condition and received 34W. The DW (it can consume e port off. signed class but to limit and not 40W. r 1 autoclass is used er when autoclass is nest required power, .3.8.2, throughout the m when VPD rises PAutoclass_PD at any sfully negotiates a ik Layer classification as nest required power, .3.8.2, throughout the m when VPD rises
				VReset_	PD max, unle d Class, throu esponse	more power than PAutoclass ss the PD successfully negoti ugh Data Link Layer classificat Response Status Z	ates a higher p	ower level, up to the PD

This comment was WITHDRAWN by the commenter.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	Pa 196	Page 101 of 130
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	Li 46	12/1/2017 3:17:49 PM
SORT ORDER: Page, Line		

C/ 145 SC 145.3.8 RAN, ADEE	P 197 Intel Corporatio	L 28 on	# r01-301	Cl 145 SC 145 Johnson, Peter	.3.8	P 198	L 39	# r01-394
Comment Type G	Comment Status R		Editorial	Comment Type T	Coi	mment Status A		PD Powe
"PD power" seems not to voltage, currents, slew rat However I'm not sure wha SuggestedRemedy Consider changing to a be	at the title should be.	ibclause, sinc	e it deals also with	Table 145-29 are Example: Pport_ Pclass_PD. Hov constants and are PSE section (e.g.	sometimes PD (Items 8 vever Pclass used as su EQ 145-2).	treated as ranges and and 9) are CLEARLY 5_PD, Ppeak_PD, and ch in the text (e.g. 145	sometimes treat ranges, effective their 2P equivale 5.3.8.2, 145.3.8.3 as not have this p	ely from 0W to ents are CLEARLY and similarly in the problem as Pclass (and
Response	Response Status C			SuggestedRemedy				
REJECT. This comment is out of sc C/ 145 SC 145.3.8	cope and does not provide a	a specific remo	edy. # <u>r01-235</u>	2P (adding 2 colute there are equation	mns). It is n ns in the PSI nn "Assigne	de Pclass_PD, Pclass not inappropriate to pla E section that use all f d Class" - so it has the able 145-29.	ace these in the our parameters.	PSE section because Table 145-11
Yseboodt, Lennart	Philips Lighting)		Response	Res	ponse Status C		
Comment Type TR	Comment Status A		PD Power	ACCEPT IN PRIN		-		
1 parameter that seemed That is false, like other po	e PD Type column in Table to depend on Type: V_Ove ower related parameters, thi	rload-2P.	·	Add text to 145.3.	-	by a single-signature	PD defined in F	quation 145-23a
not on Type. Furthermore, the value fo	r "Type 3" aka "Class 1-6" is	s wrona, it sha	ould be 39.4V			by a single signature		qualion 140 20a.
SuggestedRemedy		e meng, n em		Pport_PD-2P is the Equation 145-23b		wn by a given Mode c	of a dual-signatur	e PD, defined in
	ass 1-6 and dual-signature I ass 7-8 and dual-signature I			Pport_PD = VPD	* Iport (14	5-23a)		
		2 0.000 0		Pport_PD-2P = V	PD * Iport-2I	P (145-23b)		
Editor to split VOverload i prevent large amount of to	into a single-signature and o ext in the Parameter cell.	dual-signature	subitem in order to			average value of Ppo	rt_PD shall not e	xceed Pclass_PD for
Response	Response Status C			the assigned clas	S.			
nesponse				For a dual-signati				

Pa **198** Li **39**

C/ 145 SC 145.3.8 Yseboodt, Lennart	P 199 Philips Lighting	L 40	# r01-236	C/ 145 SC 145.3. Yseboodt, Lennart	B P 200 Philips Lightin	L16	# r01-238
					1 0	y.	
and "Pairset capacitance d MDI_POWER states h SuggestedRemedy Replace item 15 descr "Single-signature PD c and item 16:	MDI_POWER states for single uring MDI_POWER states for o aven't existed for a while now iption by: apacitance while in INRUSH, F	Jual-signature	PDs" AY, or POWERED"	This is in direct cont conditions that requi VOff_PD range. In addition, per the s NOPOWER state, w We can't just chang	Comment Status A 18: VOff_PD is a range from 30V radiction with the peak and trans re the PD to continue operating, state diagram, drawing peak pow thich should never happen. the the max value though, as for n in the VPort_PD-2P range.	sient specificatic but both cause ver would warrar	on, both of which are VPD to go into the nt a loop through the
"Dual-signature PD pai	rset capacitance while in INRU	SH, POWER	_DELAY, or POWERED"	Proposed:			
Response ACCEPT. Cl 145 SC 145.3.8	Response Status C	L13	# r01-237	30V - 36V = Voff_PI 36V - VPort-2P min	D ==> PD shall turn on in this ra D ==> PD shall turn off in this rar ==> PD may turn off if conditior ==> PD shall stay on in this rang	nge n persists longer	than TCUT min
seboodt, Lennart	Philips Lighting			SuggestedRemedy		•	
Also the numbering is SuggestedRemedy	, , , , , , , , , , , , , , , , , , ,		Editorial	- Change VOff_PD r - Add sentence after Off_PD." as follows:	f if the voltage in the range of V	off at a voltage	in the range of V
Split VOn_PD and VO	f_PD into two different items (1	8 and 19).		Response	Response Status C		
Response ACCEPT.	Response Status C			ACCEPT IN PRINC			
				adopt changes shov http://www.ieee802.	/n in org/3/bt/public/nov17/yseboodt_(08_1117_final.p	df

This resolution is identical to comment #227.

Pa **200** Li **16**

IEEE P802.3bt D3.1 4-Pair PoE 1st Sponsor recirculation ballot com	ments
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C/ 145 SC 145.3		L16	# r01-322	C/ 145	SC 145.3.8.2.1	P 201	L 37	# r01-239
ukacs, Miklos	Silicon Labor	atories		Yseboodt, Le	ennart	Philips Lightin	g	
Comment Type E It is confusing that i	Comment Status A nultiple behaviors are listed in t	he sentence.	Pres: Yseboodt8		s three different pai	comment Status A arrangement status and the state of the		PD Power verage power
transitions to NOPC invalid detection sig and show MPS.	POWER_DELAY or POWERED WER and - depending on the v nature, and may or may not dra	alue of Vpd - ma	y show a valid or	- P_Aut - PDMax - PClass A succes	class_PD PowerValue _PD ssful DLL negotiatic	n disables the P_Autock	ass_PD limit.	wert/alue into account
Response	Response Status C			The inpu	it average power ex			
ACCEPT IN PRINC				In 145.3 145.3.6.		er all of the PD power re	equirements (Au	toclass currently sits in
adopt changes sho http://www.ieee802	vn in org/3/bt/public/nov17/yseboodt	08 1117 final.p	df	SuggestedR	emedy			
				- Change				
This resolution is id	entical to comment #227.			"For sinę to:	le-signature PDs a	ssigned to Class 6 or Cla	ass 8, when add	litional information"
7 145 SC 145.3	8.2 P 201	L 26	# r01-37		le-signature PDs a	ssigned to Class 6 or Cla	ass 8, and PDM	axPowerValue set to
ones, Chad	Cisco Syster	ns, Inc.		510 or a	bove 712, when add	ditional information "		
PDMaxPowerValue	Comment Status A rage power, PClass_PD or PCI in 145.5.3.3.3, including any pe I second sliding window."			to: "For dua	I-signature PDs ass	igned to Class 5, when a igned to Class 5 and a F		
uggestedRemedy				,				
change to: "The maximum ave PDMaxPowerValue	rage power, PClass_PD or PCl in 145.5.3.3.3, including any pe econd sliding window."			"The ma PDMaxF		ver, P Class_PD or P Class_PD		
Response ACCEPT.	Response Status C			"The ma PDMaxF	owerValue in 145.5	ver, P Class_PD or P Cla 5.3.3.3, **or P_Autoclass s averaged over a 1 sec	_PD in 145.3.6.	2**, including any peak
				"The PD negotiate		e power than P Autoclas evel, up to the PD reques		
				"The PD below V	Reset_PD max , ur	line 54: e power than P Autoclas less the PD successfully ough Data Link Layer cla	v negotiates a h	igher power level, up to
	uired ER/editorial required GR /dispatched A/accepted R/reje	u .		0	U/unsatisfied Z/witl	Pa 20 ndrawn Li 37		Page 104 of 130 12/1/2017 3:17:4

SORT ORDER: Page, Line

"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

ACCEPT.

Response Status C

C/ 145	SC	145.3.8.4	P 203	L 25	#	r01-2
Brillhart, Theodore		Э	Fluke Corporation			
Comment	Type	т	Comment Status A			PD Power

The note under Figure 145-30 points out that a dual signature PD may have a single load. It does not indicate whether that common load is isolated from the pair-sets or not. This implies that a dual signature PD might tie Vpse- (Mode A) to Vpse- (Mode B), and leaving Vpse+ (mode A) and VPse+ (mode B) independent. This would meet all the requirements for measuring signature resistors and classification currents. Alternatively, the PD could tie Vpse+ (Mode A) to Vpse+ (Mode B) together, leaving the negative sides independent. This would also meet all the signature and classification requirements. However, the first connection would prevent the PSE from correctly measuring currents on the low side of the PSE output, and the second would prevent the PSE from measuring currents on the high side of the PSE output. Since the specification seems to allow both, there is no way to create a reliable connection check from the PSE.

It would appear that somewhere in the specification, a dual signature PD must be constrained to prevent 'sharing' of current between the two pairsets. This constraint does not appear to exist in the current draft. Recommend to explicitly add this constraint. One place to do this might be in the definition of a dual-signature PD; section 1.4.186a.

SuggestedRemedy

Page 24, SubClause 1.4, line 19

From:

1.4.186a dual-signature PD: A PD that has independent detection signatures, class signatures, and maintain power signatures on each pairset (See IEEE 802.3, Clause 145).

Change to:

1.4.186a dual-signature PD: A PD that has independent detection signatures, class signatures, and maintain power signatures on each pairset, and where outgoing and return currents related to detection signatures, class signatures, and maintain power signatures are restricted to that pairset. (See IEEE 802.3, Clause 145).

Note: this is one among several likely options for introducing this constraint into the standard. The commenter is not wed to this proposal and will likely accept any resolution that produces clear guidance.

Response Response Status C

ACCEPT IN PRINCIPLE.

adopt changes shown in http://www.ieee802.org/3/bt/public/nov17/darshan_07_0117_final.pdf

This resolution is identical to comment #404.

[Editor's note added after comment resolution completed:

There is a typo in the file name. The file used is

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	Pa 203	Page 105 of 130
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	Li 25	12/1/2017 3:17:49 PM
SORT ORDER: Page, Line		

http://www.ieee802.org/3/bt/public/nov17/darshan_07_1117_final.pdf]	C/ 145 SC 145.3.8.6 P204 L25 # r01-242				
C/ 145 SC 145.3.8.4 P 203 L 39 # r01-240	Yseboodt, Lennart Philips Lighting				
Yseboodt, Lennart Philips Lighting	Comment Type TR Comment Status A Pres: Yseboodt				
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."	During the last meeting it was identified that "Source resistance" and "Source current" are ambiguous and require re-simulation of the transient requirements. SuggestedRemedy Adopt yseboodt_04_0117_pdtransients.pdf				
Old text combined with new equations = confusion.	Response Response Status C ACCEPT IN PRINCIPLE.				
The equations redefine PPeak_PD based on PDMaxPowerValue. SuggestedRemedy 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."	adopt changes in http://www.ieee802.org/3/bt/public/nov17/yseboodt_04_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_04_1117_final.pdf]				
Response Response Status C ACCEPT.	C/ 145 SC 145.3.8.6 P 204 L 40 # r01-372 Lemahieu, Joris ON Semiconductor				
C/ 145 SC 145.3.8.4.1 P 204 L 14 # r01-241 Yseboodt, Lennart Philips Lighting	Comment Type GR Comment Status A Pres: Yseboodt It is confusing what is actually meant by The Source resistance specified in Table 145-30.				
Comment Type T Comment Status A Editorial 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.	SuggestedRemedy The Source resistance specified in Table 145-30 is actually the per pairset resistance. For single-signature PDs, the equivalent resistance between source and load is actually half this value.				
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 IN PRINCIPLE.				
Response Response Status C	adopt changes in http://www.ieee802.org/3/bt/public/nov17/yseboodt_04_0117_final.pdf				
ACCEPT.	This resolution is identical to comment #242.				
	[Editor's note added after comment resolution completed:				
	There is a typo in the file name. The file used is				

Pa **204** Li **40** C/ 145 SC 145.3.8.6 P 204 C/ 145 P 204 L50L 40 # r01-371 SC 145.3.8.6 # r01-325 Lemahieu, Joris ON Semiconductor Lemahieu, Joris ON Semiconductor Pres: Yseboodt4 Comment Type GR Comment Status A Pres: Yseboodt4 Comment Type GR Comment Status A It is confusing what is actually meant by The Source current specified in Table 145-30. "When transient TR1 or TR2 is applied, the PD shall meet the operating power limits after TTransient as SuggestedRemedy defined in Table 145-30." The Source current specified in Table 145-30 is actually the per pairset current limit. For It is unclear what exactly is meant by 'the operating power limits'. The limits could be at single-signature PDs, a voltage source with a current limit of twice this value may be used. 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 Response Status C Response clearly defined. ACCEPT IN PRINCIPLE. SuggestedRemedy adopt changes in http://www.ieee802.org/3/bt/public/nov17/yseboodt 04 0117 final.pdf 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. This resolution is identical to comment #242. Also note 'TTransient' is the same as 'TLIM min'. [Editor's note added after comment resolution completed: Replace "the operating power limits after TTransient as defined in Table 145-30." by "the PSE lowerbound template (see Figure 145-24 and Figure There is a typo in the file name. The file used is 145-25)" http://www.ieee802.org/3/bt/public/nov17/yseboodt_04_1117_final.pdf] Response Response Status C C/ 145 SC 145.3.8.6 P 204 L 47 # r01-373 ACCEPT IN PRINCIPLE. **ON** Semiconductor Lemahieu. Joris adopt changes in http://www.ieee802.org/3/bt/public/nov17/yseboodt_04_0117_final.pdf Comment Type **G** Comment Status A Pres: Yseboodt4 This resolution is identical to comment #242. "aThe source resistance is the effective 4-pair resistance." This seems to contradict with 'Rch' in the table that is defined as "RCh is the maximum [Editor's note added after comment resolution completed: pairset DC loop resistance, as defined in Table 145-1." on page 106 in 145.1.3. SuggestedRemedy 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 Rch by Rchan or replace 4-pair by pairset. Response Response Status C ACCEPT IN PRINCIPLE. 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 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

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

Pa **204** Li **50** Page 107 of 130 12/1/2017 3:17:49 PM

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

C/ 145 SC 145.3.8.6	P 204	L 52	# r01-393	C/ 145	SC 145.3.8.9	P 205	L 26	# r01-244
Lemahieu, Joris	ON Semiconduc	tor		Yseboodt, L	ennart	Philips L	ighting	
Comment Type GR	Comment Status R		Pres: Yseboodt4	Comment 7	ype TR	Comment Status A	L .	PD Power
What is the benefit of defining TR3? TR1 and TR2 cover long ("lasting more than 250 is") transients related to the switchover of backup power supplies. TR3 is a very fast (0.71us is way below 250us and even 30us). For relatively fast transients related to load changes one would expect the initial and final voltage to be the same and having a lower intermediate voltage. If the fall and rise times are small, one would not expect the Cport to discharge and recharge much. Peak currents way below Ilim are listed and expected to happen. For the rest the definition seems completely arbitrary: where do the 5A 1.5ohm and 4ms come from. Also how should the 1.5ohm and 5A be interpreted for single signature and dual signature? The definition of TR3 needs to be reworked completely anyhow. SuggestedRemedy I think it is better to just delete the TR3 requirement. Response Response Status REJECT.				Table 145-31 (Maximum pair-to-pair current unbalance) is the duplicate of 145-17 for the PD section. Some modifications are needed to make it work here. SuggestedRemedy 1. ICon is not a parameter known to the PD. Replace ICon by "PClass_PD / VPD" 2. Add a footnote to assigned Class "1 to 4" that says "There is no maximum unbalance current requirement for these assigned Classes." 3. By duplicating the Table we get a duplicate parameter name. Even though the values are the same, we should give them proper names. Rename I_Unbalance-2P to I_Unbalance_PD-2P in subclause 145.3. Response Response Status C ACCEPT. C/ 145 SC 145.38.9 P 205 L 26 # [r01-243] Yseboodt, Lennart Philips Lighting Editoria				
The comment resolution interoperability issues.	n group believes that deleting the	he requirement	can lead to system	is defin	aximum pair cur ed in Table 145- nce to Table is w	17."	ds on the assigned (Class (see 145.3.6), and
<i>Cl</i> 145 <i>SC</i> 145.3.8.9 Darshan, Yair	P 205	L 24	# r01-461	Suggested				
Comment Type E Missing link to Annex 14	Comment Status R 45A.		PD Power	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."				Class (see 145.3.6), and
SuggestedRemedy				Response		Response Status C	;	
,	nnex 145 for details" after line	24		ACCEF	ΥТ.			
Response REJECT.	Response Status C							
This text is unneeded at to accept this comment.	nd does not add value to the di	raft. Consensu	s could not be gained					

Pa **205** Li **26**

				•				
C/ 145 SC 145.3.8.9	P 205 L:	32 #	[‡] r01-245	-	SC 145.3.8.9	P 205	L 50	# r01-356
Yseboodt, Lennart	Philips Lighting			Stewart, Heat	h	Analog Device	es Inc.	
Comment Type E Comment S	tatus R		Editorial	Comment Typ	e TR	Comment Status A		Pres: Darshan
In Table 145-31 the column header "V maximum current.	alue" does not conve	y IUnbalance_P	D-2P is a	requireme		ow to interpret the shall whic quirements limited to the se		
SuggestedRemedy				shall?				
Change header to "Max".				SuggestedRe	medy			
Response Response St	atus C			Delete	Leenneeter (ie	ald) when motod with a anal	ified belonged a	obling connector (plug)
, REJECT.	-					ck) when mated with a spec ents of 145.3.8.9.	med balanced ca	abiling connector (plug)
The table is giving you the value of the the current shall not exceed that value				Response ACCEPT	IN PRINCIPLE	Response Status C		
C/ 145 SC 145.3.8.9 Zimmerman, George	P 205 Ls Aquantia, ADI, Comm		[‡] r01-287	paragraph	after the sent	0-51 (the quoted sentence in ence ending on line 34 of p	age 206 (previou	us paragraph begins on
Comment Type TR Comment S	tatus A					PDs shall not exceed"), ne PDs apply at the PD PI con		
"The PD PI connector (jack) when mat	ed with a specified ba	alanced cabling	connector			ng connector (plug)."	() ()	
(plug) shall meet the requirements of 1 comment on 145.2.8.5.1. There is act and the same for dual-sig) listed in 14 requirement should be stated so that it balanced cabling connector.	ually only one other r 5.3.8.9 and I believe	equirement (one the intent is that	e for single-sig, t that	This resol	ution is identic	al to comment #287.		
SuggestedRemedy								
delete page 205 lines 50-51 (the quote paragraph after the sentence ending o line 29 "Dual-signature PDs shall not	n line 34 of page 206 exceed"), new para	6 (previous para graph to read ""	graph begins on The unbalance					

Response

Response Status C

ACCEPT IN PRINCIPLE.

delete page 205 lines 50-51 (the quoted sentence in the comment), and insert new paragraph after the sentence ending on line 34 of page 206 (previous paragraph begins on line 29 "Dual-signature PDs shall not exceed..."), new paragraph to read ""The unbalance current requirements for PDs apply at the PD PI connector (jack) when mated with a specified balanced cabling connector (plug)."

current requirement for both single-signature and dual-signature PDs applies at the PD PI connector (jack) when mated with a specified balanced cabling connector (plug)."

Pa **205** Li **50**

Cl 145 SC 145.3.8.9 P206 L 25 # r01-246	C/ 145 SC 145.3.8.9 P207 L17 # r01-378	8
reboodt, Lennart Philips Lighting	Stover, David Analog Devices Inc.	
Comment Type T Comment Status A Pres: Darshan5	Comment Type T Comment Status A Pres: Da	arshan
"Single-signature PDs shall not exceed I Unbalance-2P for longer than T CUT min and 5 % duty cycle, and shall not exceed I Peak-2P-unb , as defined in Equation (145-12) on any pair"	Vsource appears to be "any voltage in the range of Vport_PSE-2P" per the shall statements on page 206. Vsource is specified behind Rsource, while Rsource lumped resistance model includes PSE resistance contributions. Actually, Vsource should be to achieve VPort_PSE-2P at the virtual PSE output.	
This links back to a PSE parameter in the PD section. We are now able to clean that up because we have local PD unbalance numbers.	SuggestedRemedy	
Note: values are I_LIM-2P minus 2mA.	Split Rsource into Rsource1, Rsource2. Specify Vsource as Vport_PSE-2P, measured between Rsource1 and Rsource2. TFTD values of Rsource1, Rsource2.	d
SuggestedRemedy	Response Response Status C	
- To Table 145-31, add new parameter I_Unbalance_peak-2P: Assigned Class Value	ACCEPT IN PRINCIPLE.	
1 to 4 PPeak_PD / VPD 5 0.56	adopt changes in http://www.ieee802.org/3/bt/public/nov17/darshan_01_1117_final.pd	ft
6 0.7	This resolution is identical to comment #462.	
7 0.827 8 0.994	C/ 145 SC 145.3.8.9 P207 L18 # r01-247	7
Response Response Status C	Yseboodt, Lennart Philips Lighting	
Response Response Status C ACCEPT IN PRINCIPLE. - - - To Table 145-31, add new parameter I_Unbalance_peak-2P: - Assigned Class Value 1 to 4 Ppeak_PD / VPD 5 to 8 ILIM-2P - 0.002 Replace "Ipeak-2p_unb" in 145.3 with "I_Unbalance_peak-2P"		Editoria section.
ACCEPT IN PRINCIPLE. - To Table 145-31, add new parameter I_Unbalance_peak-2P: Assigned Class Value 1 to 4 Ppeak_PD / VPD 5 to 8 ILIM-2P - 0.002	Comment Type E Comment Status A E In Figure 145-31 the arrows for the currents are missing, they are drawn in the PSE se SuggestedRemedy Add current arrows. Add current arrows. Response Response Status C	ection.
ACCEPT IN PRINCIPLE. - To Table 145-31, add new parameter I_Unbalance_peak-2P: Assigned Class Value 1 to 4 Ppeak_PD / VPD 5 to 8 ILIM-2P - 0.002	Comment Type E Comment Status A E In Figure 145-31 the arrows for the currents are missing, they are drawn in the PSE set SuggestedRemedy Add current arrows. Response Response Status C ACCEPT. C/ 145 SC 145.3.8 P 207 L 22 # r01-462 Darshan, Yair Comment Status A Pres: Date	ection. 2 arshan
ACCEPT IN PRINCIPLE. - To Table 145-31, add new parameter I_Unbalance_peak-2P: Assigned Class Value 1 to 4 Ppeak_PD / VPD 5 to 8 ILIM-2P - 0.002	Comment Type E Comment Status A E In Figure 145-31 the arrows for the currents are missing, they are drawn in the PSE set SuggestedRemedy Add current arrows. Response Response Status C ACCEPT. C/ 145 SC 145.3.8 P 207 L 22 # [101-462] Darshan, Yair In Section 1 In Figure 1 I	2 2 arshan ne PD
ACCEPT IN PRINCIPLE. - To Table 145-31, add new parameter I_Unbalance_peak-2P: Assigned Class Value 1 to 4 Ppeak_PD / VPD 5 to 8 ILIM-2P - 0.002	Comment Type E Comment Status A E In Figure 145-31 the arrows for the currents are missing, they are drawn in the PSE set SuggestedRemedy Add current arrows. Response Response Status C ACCEPT. C/ 145 SC 145.3.8 P 207 L 22 # r01-462 Darshan, Yair Comment Status A Pres: Da Per the latest changes we did to include Equipment connector in the PSE PI and in the	2 2 arshan ne PD
ACCEPT IN PRINCIPLE. - To Table 145-31, add new parameter I_Unbalance_peak-2P: Assigned Class Value 1 to 4 Ppeak_PD / VPD 5 to 8 ILIM-2P - 0.002	Comment Type E Comment Status A E In Figure 145-31 the arrows for the currents are missing, they are drawn in the PSE set SuggestedRemedy Add current arrows. Response Response Status C ACCEPT. C/ 145 SC 145.3.8 P 207 L 22 # r01-462 Darshan, Yair Comment Status A Pres: Da Per the latest changes we did to include Equipment connector in the PSE PI and in the PI for unbalance tests, Figure 145-31 and NOTE 1 in line 33 need some adjustments.	2 2 arshan ne PD
ACCEPT IN PRINCIPLE. - To Table 145-31, add new parameter I_Unbalance_peak-2P: Assigned Class Value 1 to 4 Ppeak_PD / VPD 5 to 8 ILIM-2P - 0.002	Comment Type E Comment Status A E In Figure 145-31 the arrows for the currents are missing, they are drawn in the PSE set SuggestedRemedy Add current arrows. Add current arrows. Response Response Status C ACCEPT. C/ 145 SC 145.3.8 P 207 L 22 # [101-462] Darshan, Yair Comment Type T Comment Status A Pres: Da Per the latest changes we did to include Equipment connector in the PSE PI and in the PI for unbalance tests, Figure 145-31 and NOTE 1 in line 33 need some adjustments. SuggestedRemedy	2 2 arshan ne PD
ACCEPT IN PRINCIPLE. - To Table 145-31, add new parameter I_Unbalance_peak-2P: Assigned Class Value 1 to 4 Ppeak_PD / VPD 5 to 8 ILIM-2P - 0.002	Comment Type E Comment Status A E In Figure 145-31 the arrows for the currents are missing, they are drawn in the PSE set SuggestedRemedy Add current arrows. Response Response Status C ACCEPT. CI 145 SC 145.3.8 P 207 L 22 # [r01-462] Darshan, Yair Comment Type T Comment Status A Pres: Da Per the latest changes we did to include Equipment connector in the PSE PI and in the PI for unbalance tests, Figure 145-31 and NOTE 1 in line 33 need some adjustments. SuggestedRemedy Adopt darshan_01_1117.pdf	ection. 2 arshan

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C/ 145 SC 145.3.9 Yseboodt, Lennart	Р 208 Philips Lightin	L 5 g	# r01-248	C/ 145 Darshan,	SC 145.4. Yair	1.1.1	P 210	L7	# r01-463	
Comment Type T	Comment Status A		PD Pov	ver Comment	Type T	Comm	ent Status A			AES
worst case cable resis We can specify what SuggestedRemedy Change to: "A PD shall meet the represents the worst o	T MPS_PD requirement with a stance between the measurem this worst-case value is, makin T MPS_PD requirement with a case cable resistance between	ent point and t ng this shall les series resistar	he PD PI." s open for interpretatio nce of R_Ch, which	PSE (We I Switc The F when As a do, it In add	measures the have already a hing the positiv D must show connected to result, we don' surely make th	current on the requirement f ve side is pos valid detection the PSE above t need to require standard cl	e same side it switt that PSE will switc sible as an option n on each pairset s re. uire dual-sigs to no earer.	ches the current th the current or but not instead set per the dual t tie negatives t	need to require that t n the negative side. of the negative side). -signature definitions together however if we parate comment marke	
Response	Response Status C									
ACCEPT.				"Án E both To: "/ the ci 2) Or "An e condu To: "An e condu 3) Or	page 210 line nvironment A conductors." An Environmer irrent through page 210 line nvironment B l ictor. It is allow nvironment B l ictor and shall page 209 clau	PSE shall swi it A PSE shall it. It is allowed 18, change fi PSE that supp yed to switch PSE that supp measure the use 145.4.1 at	itch the more nega I switch the more r d to switch both co rom: ports 4-pair power both conductors." ports 4-pair power current through it.	negative conduc inductors." shall switch the shall switch the It is allowed to e following text:	more negative switch both conductor ODual-signature PDs	e rs."
				Response	;	Respon	se Status C			
				ACCI	EPT IN PRINC	IPLE.				
					changes show www.ieee802.		c/nov17/darshan_(07_0117_final.p	df	
				This	esolution is ide	entical to com	iment #404.			
				[Edito	r's note added	after comme	ent resolution comp	pleted:		
							The file used is c/nov17/darshan_(07_1117_final.p	df]	

Pa **210** Li **7**

C/ 145 SC 145.4.4 P 213 L 12 # r01-464 Darshan, Yair	C/ 145 SC 145.4.4 P 214 L 33 # r01-466
Comment Type T Comment Status A AES	Comment Type T Comment Status A AES
After adding 2.5/5/10G we need to update the maximum frequency range in the text "**Capacitor impedance less than 1 ohm from 1 MHz to 100 MHz"	After adding 2.5/5/10G we need to update the maximum frequency range in the text "**Capacitor impedance less than 1 ohm from 1 MHz to 100 MHz"
SuggestedRemedy	SuggestedRemedy
Change from" **Capacitor impedance less than 1 ohm from 1 MHz to 100 MHz" To: "**Capacitor impedance less than 1ohmrom 1 MHz to maximum operating frequency of the device."	Change from" **Capacitor impedance less than 1 ohm from 1 MHz to 100 MHz" To: "**Capacitor impedance less than 1ohmrom 1 MHz to maximum operating frequency of the device."
Response Response Status C	Response Response Status C
ACCEPT IN PRINCIPLE.	ACCEPT IN PRINCIPLE.
Change from" **Capacitor impedance less than 1 ohm from 1 MHz to 100 MHz"	Change to: "**Capacitor impedance less than 1ohm from 1 MHz to 500 MHz."
To: "**Capacitor impedance less than 1ohm from 1 MHz to 500 MHz."	C/ 145 SC 145.4.6 P215 L 39 # r01-467
C/ 145 SC 145.4.4 P213 L21 # r01-465	Darshan, Yair
Darshan, Yair	Comment Type T Comment Status D AES
Comment Type T Comment Status A AES	The coupled noise of 1mV for 2.5GHz to 10GHz is too small.
The text "1) For a PSE, the PI that supplies power is terminated as illustrated in Figure 145- 35. The PSE load, R, in Figure 145-35 is adjusted so that the PSE output current, lout, is 10 mA and then 350 mA, while measuring Ecm_out on the PI." was good for 802.3af when	SuggestedRemedy Change to 2mV
we had only 350mA. Need to adjust it to Icon or Icon-2P.	Proposed Response Response Status Z
SuggestedRemedy	REJECT.
Change from: "1) For a PSE, the PI that supplies power is terminated as illustrated in Figure 145-35. The PSE load, R, in Figure 145-35 is adjusted so that the PSE output current, lout, is 10 mA and then 350 mA, while measuring Ecm_out on the PI." To: "1) For a PSE, the PI that supplies power is terminated as illustrated in Figure 145-35. The PSE load, R, in Figure 145-35 is adjusted so that the PSE output current, lout, is 10 mA and then Icon for single-signature PD or Icon-2P on each pairset for dual-signature PD, while measuring Ecm_out on the PI."	This comment was WITHDRAWN by the commenter.
Response Response Status C	
ACCEPT IN PRINCIPLE.	
Change from: "1) For a PSE, the PI that supplies power is terminated as illustrated in Figure 145-35. The PSE load, R, in Figure 145-35 is adjusted so that the PSE output current, lout, is 10 mA and then 350 mA, while measuring Ecm_out on the PI." To: "1) For a PSE, the PI that supplies power is terminated as illustrated in Figure 145-35. The PSE load, R, in Figure 145-35 is adjusted so that the PSE output current, lout, is 16 mA and then lcable for 2-pair operation or 2xlcable for 4-pair operation, while measuring Ecm_out on the PI."	

Pa **215** Li **39**

C/ 145 SC 145.4.9 P216 L 23 # r01-302	C/ 145 SC 145.3.4 P216 L 38 # r01-297	7
RAN, ADEE Intel Corporation	RAN, ADEE Intel Corporation	
Comment Type G Comment Status A Editorial	Comment Type E Comment Status R E	Editoria
(After 'If the existing FD configuration is of the "Cross-connect model" type, the Midspan PSE')	The signature requirements from a PD are stated in great detail before the concept of signature is introduced (P217 L1).	:
The phrase "needs to" was changed to "can". Both are not clear standard language.	For non-expert readers, this may be difficult to understand.	
According to the style manual, "can" is equivalent to "is capable of", which seems inappropriate here. I think it should be a "may".	I am aware that this subclause structure is based on 33.3.4; It would be good to also change that subclause in maintenance.	
In addition, the "shall" in the next statement is now the only normative requirement; so the	SuggestedRemedy	
"In addition" is inappropriate.	Move the text starting from "The detection signature is a resistance calculated" and er with "the characteristics in Table 145-22" (inclusive) to the beginning of this subclause	
SuggestedRemedy	Response Response Status C	
Change "can be" to "may be".	REJECT.	
Change "In addition, the installation of a Midspan PSE shall" to	Comment is out of scope and as the commenter points out, the structure of this section based on clause 33.	on is
"An installation of a Midspan PSE shall"	C/ 145 SC 145.4.9 P217 L51 # r01-245	9
Response Response Status C	Yseboodt, Lennart Philips Lighting	
ACCEPT.	Comment Type E Comment Status A E	Editori
[Editor's note added after comment resolution completed:	"For a 10GBASE-T midspan PSDs, in meeting either of the above requirements, the	
	Midspan PSE may be substituted for up to two connection pairs in the FD."	
The change for "In addition, the installation of a Midspan PSE shall" was not made as that text is not in the draft.]	I guess PSDs needs to be PSE ?	
	SuggestedRemedy	
	Change to: "For a 10GBASE-T midspan PSE, in meeting either of the above requirements, the Midspan PSE may be substituted for up to two connection pairs in the FD."	
	Midspart FSE may be substituted for up to two connection pairs in the FD.	
	Response Response Status C	

Pa **217** Li **51**

C/ 145 SC 145.4.	9.4 P 221	L 33	# r01-38	C/ 145 SC	2 145.5	P 222	L 28	# r01-250
Jones, Chad	Cisco Syste	ems, Inc.		Yseboodt, Lenna	art	Philips Lighting		
Comment Type ER	Comment Status A		Editorial	Comment Type	TR	Comment Status A		Pres: Yseboodt
through 5 in 145.4.9 parameters for coup list the parameters. SuggestedRemedy List them. Response ACCEPT IN PRINC Delete "is limited" of Change sentence to "Midspan PSEs inte 145.4.9.1 and 145.4	line page 221, line 37.	nally required to n lating to different /5G/10GBASE-T d to meet the follo	neet the following link segments." - doesn't (variants 3 through 5 in wing specifications for	When a PD - it must co (through pd - it must wa to lower MP When a PD - it must wa - it must im requirement SuggestedReme This issue, a yseboodt_0;	negotiates nform to th _max_pow it for the P S current b negotiates it for the P mediately f s as the re edy as well as t 5_0117_dl	SE to be in sync before it trigge before the PSE is ready for it)	ediately as the ers power upd ng pd_max_p n to potentially	requests goes out ate (otherwise it can flip ower
2 SC 145.4.	9.4.1 P 222	L1	# r01-367	Response		Response Status C		
Mcclellan, Brett	Marvell Ser	miconductor		ACCEPT IN	PRINCIPI	_E.		
Comment Type E Table 145-38 has a	Comment Status A single entry. No table is requi	ired. It can be cha	Editorial anged to an equation.	Adopt chang http://www.ie		in g/3/bt/public/nov17/yseboodt_0	5_0117_final.p	odf
SuggestedRemedy				[Editor's not	e added af	ter comment resolution comple	eted:	
38 to equation 145- Do the same for Tal	le 145-39. 9 into equation 145-34b. cha	0				ile name. The file used is 3/3/bt/public/nov17/yseboodt_0	5_1117_final.p	odf]
Response ACCEPT.	Response Status C							

Pa **222** Li **28**

/ 145 SC 145.5 P222 L 28 # r01-251	This resolution is identical to comment #250.					
seboodt, Lennart Philips Lighting	[Editor's note added after comment resolution completed:					
omment TypeTRComment StatusAPres: Yseboodt5There is a basic conflict between DLL power negotiation and Autoclass.	There is a typo in the file name. The file used is http://www.ieee802.org/3/bt/public/nov17/yseboodt_05_1117_final.pdf]					
This is what happens:	C/ 145 SC 145.5 P222 L 33 # r01-252					
CC, Detect, Class happens. An initial Class is assigned and power allocated. Assume the PD requests Autoclass	Yseboodt, Lennart Philips Lighting					
The PSE performs the Autoclass measurement and based on this reduces the power	Comment Type T Comment Status A DL					
budget. DLL is initialized	"Single-signature PDs advertising a Class 4 signature or higher and dual-signature PDs that request Class 4 or higher on either Mode support Data Link Laver classification (see					
Per the DLL state diagrams, the PSE uses a PSE_INITIAL_VALUE based on the assigned Class.	145.3.6)."					
At this point the Autoclass optimization is forgotten after all, whatever power the PSE puts in PSEAllocatedPowerValue is the amount of power the PSE guarantees at the PD PI.	We actually manage to be inconsistent within the same sentence (class signature vs request Class)					
The same happens when DLL Autoclass is used, right after the measurement, the result is	SuggestedRemedy					
invalidated because the value in PSEAllocatedPowerValue prevails. The root cause of this is that DLL always requires both PSE and PD to negotiate to some value. The whole point of Autoclass is that neither party necessarily knows about cable	Replace by: "Single-signature PDs that request Class 4 or higher and dual-signature PDs that request Class 4 or higher on either Mode support Data Link Layer classification (see 145.3.6)."					
resistance and power at the PD PI.	Response Response Status C					
We need a way to indicate at DLL level that Autoclass is being used and that the normal	ACCEPT.					
DLL operation is suspended.	C/ 145 SC 145.5.2 P 222 L 52 # r01-253					
Ideally what I would want is that a PD or PSE can, at any time, switch out of this mode and go back to "normal" power allocation.	Yseboodt, Lennart Philips Lighting					
Thus, I would suggest that we take a magic number for the PDRequestedPowerValue and						
PSEAllocatedPowerValue fields that indicates that the power allocation = the most recent	Comment Type E Comment Status A Editoria					
Autoclass power. A logical value for this would be 0xACAC.	This is last occurance of "state variable" (another one in the PICS related to this one).					
So, what would happen after a Physical Layer Autoclass is that the PD initializes with a PDRequestedPowerValue=0xACAC which indicates Autoclass.	"PDs shall set the state variable pd_dll_ready within 5 minutes of Data Link Layer classification being enabled in a PD as indicated by the variable pd_dll_enable (145.3.3.4, 145.3.3.9, and 145.5.3.3.3)."					
The PSE, if it supports Autoclass, would use PSEAllocatedPowerValue=0xACAC. If it doesn't, the PSE can set PSEAllocatedPowerValue to the assigned Class.	SuggestedRemedy Replace "the state variable" by "the variable".					
This way, a PD that operates under Autoclass, is able to 'renegotiate' to a fixed PD PI value, and then later on even redo Autoclass using DLL.	Response Response Status C ACCEPT.					
uggestedRemedy	ACCEPT.					
Adopt yseboodt_05_0117_dllautoclass.pdf						
esponse Response Status C						

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

Pa **222** Li **52**

Editorial

DLL

Page 115 of 130 12/1/2017 3:17:49 PM

<i>Cl</i> 145 <i>SC</i> 145.5.3 Yseboodt, Lennart	P223 L13 # r01-254 Philips Lighting	C/ 145 SC 145.5.3.3 P 223 L 39 # r01-306 RAN, ADEE Intel Corporation
Comment Type ER	Comment Status A DLL	Comment Type T Comment Status A DLL
The way the subclaus	ses are ordered in 145.5.3 (DLL state diagrams) no longer makes ular implementation of DLL we have adopted in the last cycle.	The field is in the TLV, which is a part of the LLDPDU. It is not a field of the LLDPDU.
Right now everything	is structured with single-signature vs dual-signature as the top branch.	Also in 145.5.3.6.
SuggestedRemedy		SuggestedRemedy
Restructure 145.5.3 s		Change "the corresponding LLDPDU field" to "the corresponding Power via MDI TLV field".
 The top branch is P Subdivide PD into s 	SE and PD single-signature	Change 145.5.3.6 in a similar manner.
	pping Table for PSEs with ALL the variables (the regular ones and the	Response Response Status C
_alt(X) ones) - Merge the variable I	lists for the PSE	ACCEPT.
 Create two mapping 	g Tables for PDs (one for single-signature and one of dual-signature)	C/ 145 SC 145.5.3.3.1 P225 L25 # r01-255
 Remove the constru- replace by _alt(A) or 	<pre>uct _alt(X=A) or _mode(X=B) from the dual-signature mapping table, mode(B).</pre>	C/ 145 SC 145.5.3.3.1 P 225 L 25 # r01-255 Yseboodt, Lennart Philips Lighting Philips Lighting
Response	Response Status C	Comment Type TR Comment Status A DLL
, ACCEPT.		Values for pse initial value are incorrect (should match PClass PD).
	P223 L19 # r01-304	SuggestedRemedy
C/ 145 SC 145.5.3 RAN, ADEE	P223 L19 # r01-304 Intel Corporation	 For pse_allocated_pwr=6, change pse_initial_value to 510
		- For pse_allocated_pwr=8, change pse_initial_value to 713
Comment Type T	Comment Status A Editoiral ged to "diagrams" in the previous paragraph, but this paragraph still	Response Response Status C
	ng to two different diagrams, twice.	ACCEPT.
which is optional. Is t	as numbered in the clean document) seems to deal with Autoclass, the "shall" appropriate for it too? Is there a parallel requirement for (I am not sure about this)	
SuggestedRemedy		
Change "diagram" to	"diagrams" twich in the second paragraph.	
Consider what to do	with the Autoclass state diagram.	
Response	Response Status C	
ACCEPT IN PRINCI	PLE.	

Change "diagram" to "diagrams" twice in the second paragraph.

Pa **225** Li **25**

C/ 145 SC 145.5.3.3.1 P 225 L 25 # r01-357 Stewart, Heath Analog Devices Inc. Figure 100-1000 Figure 100-1000	C/ 145 SC 145.5.5.52 P226 L 28 # r01-468 Darshan, Yair
Comment Type TR Comment Status A DLL	Comment Type T Comment Status A DLL
Some of the pse_initial_value settings (class 6 and 8) were set based on assumptions about zero cable length. Perhaps this was in anticipation of a extended power usage model which has been lost.	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.
SuggestedRemedy	SuggestedRemedy
Change 6 600 8 900 to	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."
6 510 8 713	Response Response Status C
Response Response Status C	ACCEPT IN PRINCIPLE.
ACCEPT IN PRINCIPLE.	Change to:
- For pse_allocated_pwr=6, change pse_initial_value to 510	"This function evaluates the power allocation or budget of the PSE based on local system changes or changes of the PD requested power value."
- For pse_allocated_pwr=8, change pse_initial_value to 713	C/ 145 SC 145.5.3.3.1 P226 L 28 # r01-256
This resolution is identical to comment #255.	Yseboodt, Lennart Philips Lighting
C/ 145 SC 145.5.3.3.2 P226 L28 # r01-469	Comment Type T Comment Status A DLL
Darshan, Yair	Function pse_power_review does not follow the convention that functions start with do
Comment Type T Comment Status A DLL	SuggestedRemedy
pse_power_review is a function of local system changes but also PD requested power	Rename pse_power_review to do_pse_power_review in Clause 145.
value	Response Response Status C
SuggestedRemedy	
SuggestedRemedy Change from:	ACCEPT.
Change from: "This function evaluates the power allocation or budget of the PSE based on local system	
Change from: "This function evaluates the power allocation or budget of the PSE based on local system changes.	ACCEPT.
Change from: "This function evaluates the power allocation or budget of the PSE based on local system	ACCEPT. C/ 145 SC 145.5.3.4.1 P228 L 37 # r01-257
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."	ACCEPT. C/ 145 SC 145.5.3.4.1 P228 L37 # r01-257 Yseboodt, Lennart Philips Lighting Comment Type TR Comment Status A DLL Values for pd_dllmax_value are incorrect (should match PClass_PD for Class 6)
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."	ACCEPT. C/ 145 SC 145.5.3.4.1 P228 L 37 # r01-257 Yseboodt, Lennart Philips Lighting Comment Type TR Comment Status A DLL
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." Response Response Status C ACCEPT IN PRINCIPLE. Change to:	ACCEPT. C/ 145 SC 145.5.3.4.1 P 228 L 37 # r01-257 Yseboodt, Lennart Philips Lighting Comment Type TR Comment Status A DLL Values for pd_dllmax_value are incorrect (should match PClass_PD for Class 6) SuggestedRemedy
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." Response Response Status C ACCEPT IN PRINCIPLE. Change to: "This function evaluates the power allocation or budget of the PSE based on local system	ACCEPT. C/ 145 SC 145.5.3.4.1 P 228 L 37 # r01-257 Yseboodt, Lennart Philips Lighting Comment Type TR Comment Status A DLL Values for pd_dllmax_value are incorrect (should match PClass_PD for Class 6) SuggestedRemedy - For pd_req_class=6, change pd_dll_max_value to 510
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." Response Response Status C ACCEPT IN PRINCIPLE. Change to:	ACCEPT. C/ 145 SC 145.5.3.4.1 P 228 L 37 # r01-257 Yseboodt, Lennart Philips Lighting Comment Type TR Comment Status A DLL Values for pd_dllmax_value are incorrect (should match PClass_PD for Class 6) SuggestedRemedy - For pd_req_class=6, change pd_dll_max_value to 510 Class 8 is OK.
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." Response Response Status C ACCEPT IN PRINCIPLE. Change to: "This function evaluates the power allocation or budget of the PSE based on local system	ACCEPT. CI 145 SC 145.5.3.4.1 P 228 L 37 # r01-257 Yseboodt, Lennart Philips Lighting Comment Type TR Comment Status A DLL Values for pd_dllmax_value are incorrect (should match PClass_PD for Class 6) SuggestedRemedy - For pd_req_class=6, change pd_dll_max_value to 510 Class 8 is OK. Response Response Status C
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." Response Response Status C 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." This resolution is identical to comment #468. YPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/g	ACCEPT. C/ 145 SC 145.5.3.4.1 P28 L37 # 01-257 Yseboodt, Lennart Philips Lighting Comment Type TR Comment Status A DLL Values for pd_dllmax_value are incorrect (should match PClass_PD for Class 6) SuggestedRemedy - For pd_req_class=6, change pd_dll_max_value to 510 Class 8 is OK. Response Response Status C ACCEPT. general Pa 228 Page 17 of 130
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." Response Response Status C 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."	ACCEPT. C/ 145 SC 145.5.3.4.1 P28 L37 # 01-257 Yseboodt, Lennart Philips Lighting Comment Type TR Comment Status A DLL Values for pd_dllmax_value are incorrect (should match PClass_PD for Class 6) SuggestedRemedy - For pd_req_class=6, change pd_dll_max_value to 510 Class 8 is OK. Response Response Status C ACCEPT. general Pa 228 Page 17 of 130

C/ 145 SC 145.5.3.4.2 Yseboodt, Lennart	2 P 229 Philips Lighting	L 1	# r01-258		C/ 145 Yseboodt, I		5.5.3.4.2	Р 229 Philips Lighting	L 40	# r01-261
Comment Type TR	Comment Status A			DLL	Comment T	Type 1	TR	Comment Status A		DLL
	MirroredPDRequestedPowerVa owerValue "Values: 1 through \$					the single		RequestedPowerValue_mo e PD DLL state diagram, th		
These are incoming field	ls that can be zero.				Suggested	Remedy				
SuggestedRemedy						ge to: "Va	alues: 0"			
Change both to "Values:	: 0 through 999"				Response			Response Status C		
Response ACCEPT.	Response Status C				ACCEF	PT.				
					C/ 145	SC 14	5.5.3.4.2	P 230	L 2	# <u>r01-358</u>
C/ 145 SC 145.5.3.4.2	-	L 32	# r01-259		Stewart, He	eath		Analog Device	s Inc.	
Yseboodt, Lennart	Philips Lighting				Comment T	Гуре Т	TR	Comment Status A		DLL
Comment Type T Missing 'valid values' for	Comment Status A variable PDMaxPowerValue.			DLL		ble lengt		ue settings (class 6 and 8) s this was in anticipation of		•
SuggestedRemedy	999" to PDMaxPowerValue.				Suggested					
Response	Response Status C				Change					
ACCEPT.	Response status C				6 60 8 90					
					to	-				
Cl 145 SC 145.5.3.4.2 Yseboodt, Lennart	2 P 229 Philips Lighting	L 36	# r01-260		6 51 8 71					
Comment Type TR Missing 'valid values' for	Comment Status A	/alue.		DLL	Response ACCEF	PT.		Response Status C		
SuggestedRemedy Add "Values: 0 through	pd_dllmax_value" to PDReque	stedPowerValue								
Response	Response Status C									

ACCEPT.

Pa **230** Li **2**

Yseboodt, Lennart Philips Lighting Yseboodt, Lennart Philips Lighting Comment Type TR Comment Status A DLL Comment Type T Comment Status A Function pd_power_review does not follow the convention that functions status A SuggestedRemedy - For pd_max_power=6, change pd_initial_value to "<=510" - For pd_max_power=6, change pd_initial_value to "<=713" SuggestedRemedy Rename pd_power_review to do_pd_power_review in Clause 145. ACCEPT IN PRINCIPLE. Change 6 600 ACCEPT. Change 6 600 Comment Type E Comment Status A 8 900 Comment Type E Comment Status A 0 0 Comment Type E Comment Status A 10 0 Commany Status C ACCEPT IN ACCEPT IN PRINCIPLE. C/ 145 SC 145.5.3.4.4 P 231 L 14 # Vseboodt, Lennart Philips Lighting Comment Type E Comment Status A Spurious newline after pd_new_value: SuggestedRemedy 11 This resolution is identical to comment #358. Fix. Response Response Status C Yseboodt, Lennart Philips Lighting Fix. Response Status C ACC	
Values for pd_initial_value are incorrect (should match PClass_PD) SuggestedRemedy -For pd_max_power=6, change pd_initial_value to "<=510"	r01-265
SuggestedRemedy - For pd_max_power=6, change pd_initial_value to *<=510"	DI
 For pd_max_power=6, change pd_initial_value to "<=510" For pd_max_power=6, change pd_initial_value to "<=713" Response Response Status C ACCEPT IN PRINCIPLE. Change 6 600 8 900 6 6 510 8 713 This resolution is identical to comment #358. C/ 145 SC 145.5.3.4.2 P 230 L 8 # r01-263 Krosebodt, Lennart Philips Lighting Comment Type T Comment Status A Wrong valid values for PSEAllocatedPower/valueEcho: "Values: 1 through 999" SuggestedRemedy Change to "Values: 0 through 999" Response Response Status C ACCEPT. C/ 145 SC 145.5.3.4.2 P 230 L 15 # r01-263 Change to "Values: 0 through 999" Response Response Status C ACCEPT. C/ 145 SC 145.5.3.4.2 P 230 L 15 # r01-264 Change to "Values: 0 through 999" Response Response Status C ACCEPT. C/ 145 SC 145.5.3.4.2 P 230 L 15 # r01-264 Change to "Values: 0 through 999" Response Response Status C ACCEPT. C/ 145 SC 145.5.3.4.2 P 230 L 15 # r01-264 Comment Type TR Comment Status A Comment Type TR Comment Status C ACCEPT. C/ 145 SC 145.5.3.4.2 P 230 L 15 # r01-264 Comment Type TR Comment Status A Comment Type TR Comment Status C ACCEPT. C/ 145 SC 145.5.3.4.2 P 230 L 15 # r01-264 Comment Type TR Comment Status A Comment Type TR Comment Status C ACCEPT. C/ 145 C 145.5.3.4.2 P 230 L 15 # r01-264 Change to "1pd_dll_enable + 1pd_dll_ready" Response Response Status C ACCEPT. 	vith do
- For pd_max_power=8, change pd_initial_value to *<=713* Response Response Status C ACCEPT IN PRINCIPLE. Change 6 600 8 900 to 6 510 8 713 This resolution is identical to comment #358. C/ 145 SC 145.5.3.4.2 P230 L8 # [01-263] Kresponse Response Status C C/ 145 SC 145.5.3.4.2 P230 L8 # [01-263] Kresponse Response Status C ACCEPT. C/ 145 SC 145.5.3.4.2 P230 L8 # [01-263] Kresponse Response Status C ACCEPT. C/ 145 SC 145.5.3.4.2 P230 L8 # [01-263] Kresponse Response Status C ACCEPT. C/ 145 SC 145.5.3.4.2 P230 L8 # [01-263] Kresponse Response Status C ACCEPT. C/ 145 SC 145.5.3.4.5 P233 L3 # [Yseboodt, Lennart Philips Lighting SuggestedRemedy Change to "Values: 0 through 999" Response Response Status C ACCEPT. C/ 145 SC 145.5.3.4.2 P230 L15 # [01-264] Kresponse Response Status C ACCEPT. C/ 145 SC 145.5.3.4.2 P230 L15 # [01-264] Kresponse Response Status C ACCEPT. C/ 145 SC 145.5.3.4.2 P230 L15 # [01-264] Kesponse Response Status C ACCEPT. C/ 145 SC 145.5.3.4.2 P230 L15 # [01-264] Kesponse Response Status C ACCEPT. C/ 145 SC 145.5.3.4.2 P230 L15 # [01-264] Kesponse Response Status C ACCEPT. C/ 145 SC 145.5.3.4.2 P230 L15 # [01-264] Kesponse Response Status C ACCEPT. C/ 145 SC 145.5.3.4.2 P230 L15 # [01-264] Kesponse Response Status C ACCEPT. C/ 145 SC 145.5.3.4.2 P230 L15 # [01-264] Kesponse Response Status C ACCEPT. C/ 145 SC 145.5.3.4.2 P230 L15 # [01-264] Kesponse Response Status C ACCEPT. C/ 145 SC 145.5.3.4.2 P230 L15 # [01-264] Kesponse Response Status C ACCEPT. C/ 145 SC 145.5.3.4.2 P230 L15 # [01-264] Kesponse Response Status C ACCEPT. C/ 145 SC 145.5.3.4.2 P230 L15 # [01-264] Kesponse Response Status C ACCEPT. C/ 145 SC 145.5.3.4.2 P230 L15 # [01-264] Kesponse Response Status C ACCEPT.	
Response Response Status C ACCEPT IN PRINCIPLE. Change 6 6 600 8 900 to 6 6 510 8 713 This resolution is identical to comment #358. C C/ 145 SC 145.5.3.4.2 P 230 L 8 # [01-263] Seboodt, Lennart Philips Lighting C C/ 145 SC 145.5.3.4.5 P 233 L 3 # C/ 145 SC 145.5.3.4.2 P 230 L 8 # [01-263] C/ 145 SC 145.5.3.4.5 P 233 L 3 # SoggestedRemedy Change to "Values: 0 through 999" Change to "Values: 0 through 999" Change to "Values: 0 through 999" Comment Type TR Comment Status A Seboodt, Lennart Philips Lighting "'Ipd_dll_ready" Entry arc into INITIALIZE should be "Ipd_dll_enable + !pd_dll_ready" to match DLL state diagrams. SuggestedRemedy C/ 145 SC 145.5.3.4.2 P 230 L 15 # [D1-264] Change to: "Ipd_dll_enable + !pd_dll_ready" to match DLL state diagrams. SuggestedRemedy Change to: "Ipd_dll_enable + !pd_dll_ready" <t< td=""><td></td></t<>	
Change 6 600 8 900 Yseboodt, Lennart Philips Lighting This resolution is identical to comment #358. Cl 145 SC 145.5.3.4.2 P 230 L 8 # [01-263] Comment Type T Comment Status A SuggestedRemedy Fix. Response Response Status C ACCEPT. Change to "Values: 0 through 999" Change to "Values: 0 through 999" Comment Type TR Comment Status A C1 145 SC 145.5.3.4.2 P 230 L 15 # [01-264] Change to "Values: 0 through 999" Change to "Values: 0 through 999" Comment Type TR Comment Status A SuggestedRemedy Change to "Values: 0 through 999" Comment Type TR Comment Status A C1 145 SC 145.5.3.4.2 P 230 L 15 # [01-264] C1 145 SC 145.5.3.4.2 P 230 L 15 # [01-264] C1 145 SC 145.5.3.4.2 P 230 L 15 # [01-264] C1 145 SC 145.5.3.4.2 P 230 L 15 # [01-264] C1 145 SC 145.5.3.4.2 P 230 L 15 # [01-264] C1 145 SC 145.5.3.4.2 P 230<	
6 600 Filling Lighting 8 900 Comment Type Comment Status A 6 510 SuggestedRemedy Fix. C/1 145 SC 145.5.3.4.2 P 230 L 8 # r01-263 Kesboodt, Lennart Philips Lighting Fix. Wrong valid values for PSEAllocatedPowerValueEcho: "Values: 1 through 999" DLL SuggestedRemedy Change to "Values: 0 through 999" Change to "Values: 0 through 999" Comment Status ACCEPT. P230 L 15 C/1 145 SC 145.5.3.4.2 P 230 L 15 # r01-264 Kesponse Response Status C ACCEPT. Comment Type TR C/1 145 SC 145.5.3.4.2 P 230 L 15 Kesboodt, Lennart Philips Lighting Comment Type TR Comment Type TR Comment Status A C/1 145 SC 145.5.3.4.2 P 230 L 15 # r01-264 Kesboodt, Lennart Philips Lighting SuggestedRemedy Change to: "lpd_dll_enable + !pd_dll_ready" Kesboodt, Lennart Philips	r01-266
to 6 510 8 713 This resolution is identical to comment #358. C/ 145 SC 145.5.3.4.2 P 230 L 8 # r01-263 (seboodt, Lennart Philips Lighting Comment Type T Comment Status A DLL Wrong valid values for PSEAllocatedPowerValueEcho: "Values: 1 through 999" SuggestedRemedy Change to "Values: 0 through 999" Response Response Status C ACCEPT. C/ 145 SC 145.5.3.4.2 P 230 L 15 # r01-264 (rot 145 SC 145.5.3.4.5 C 145.5.3.4.5 P 230 L 15 # r01-264 (rot 145 SC 145.5.5.5 P 230 L 15	
8 713 This resolution is identical to comment #358. C/1 145 SC 145.5.3.4.2 P 230 L 8 # [01-263] Scboodt, Lennart Philips Lighting C/ ACCEPT. Comment Type T Comment Status A DLL Wrong valid values for PSEAllocatedPowerValueEcho: "Values: 1 through 999" DLL Sc 145.5.3.4.5 P 233 L 3 # SuggestedRemedy Change to "Values: 0 through 999" Comment Type TR Comment Status A C/1 145 SC 145.5.3.4.2 P 230 L 15 # [01-264] C/1 145 SC 145.5.3.4.2 P 230 L 15 # [01-264] C/1 145 SC 145.5.3.4.2 P 230 L 15 # [01-264] C/1 145 SC 145.5.3.4.2 P 230 L 15 # [01-264] C/1 145 SC 145.5.3.4.2 P 230 L 15 # [01-264] C/1 145 SC 145.5.3.4.2 P 230 L 15 # [01-264] C/1 145 SC 145.5.3.4.2 P 230 L 15 # [01-264] C/1 145 SC 145.5.3.4.2 P 230 L 15 # [01-264] <td>Editor</td>	Editor
Cli 145 SC 145.5.3.4.2 P 230 L 8 # [01-263] (respondent Type T Comment Status A DLL (respondent Type T Comment Status A DLL Wrong valid values for PSEAllocatedPowerValueEcho: "Values: 1 through 999" DLL Cl 145 SC 145.5.3.4.5 P 233 L 3 # SuggestedRemedy Change to "Values: 0 through 999" Comment Type TR Comment Status A Cl 145 SC 145.5.3.4.2 P 230 L 15 # [01-264] Entry arc into INITIALIZE should be "!pd_dll_enable + !pd_dll_ready" Cl 145 SC 145.5.3.4.2 P 230 L 15 # [01-264] Change to: "!pd_dll_enable + !pd_dll_ready" Cl 145 SC 145.5.3.4.2 P 230 L 15 # [01-264] Change to: "!pd_dll_enable + !pd_dll_ready" Cl 145 SC 145.5.3.4.2 P 230 L 15 # [01-264] Change to: "!pd_dll_enable + !pd_dll_ready" Cl 145 SC 145.5.3.4.2 P 230 L 15 # [01-264] Change to: "!pd_dll_enable + !pd_dll_ready" Cl 145 SC 145.5.3.4.2 P 230 L 15 #<	
C/ 145 SC 145.5.3.4.2 P 230 L 8 # [101-263] Seboodt, Lennart Philips Lighting ACCEPT. C/ 145 SC 145.5.3.4.5 P 233 L 3 # Wrong valid values for PSEAllocatedPowerValueEcho: "Values: 1 through 999" Cl 145 SC 145.5.3.4.5 P 233 L 3 # SuggestedRemedy Change to "Values: 0 through 999" Comment Type TR Comment Status A Response Response Status C Entry arc into INITIALIZE should be "!pd_dll_enable + !pd_dll_ready" Entry arc into INITIALIZE should be "!pd_dll_enable + !pd_dll_ready" C/ 145 SC 145.5.3.4.2 P 230 L 15 # [101-264] C/ 145 SC 145.5.3.4.2 P 230 L 15 # [101-264] C/ 145 SC 145.5.3.4.2 P 230 L 15 # [101-264] C/ 145 SC 145.5.3.4.2 P 230 L 15 # [101-264] C/ 145 SC 145.5.3.4.2 P 230 L 15 # [101-264] C/ 145 SC 145.5.3.4.2 P 230 L 15 # [101-264] C/ 145 SC 145.5.3.4.2 P 230 L 15 # [101-264] C	
Wrong valid values for PSEAllocatedPowerValueEcho: "Values: 1 through 999" Yseboodt, Lennart Philips Lighting SuggestedRemedy Change to "Values: 0 through 999" Comment Type TR Comment Status A Response Response Status C "!pd_dll_ready" Entry arc into INITIALIZE should be "!pd_dll_enable + !pd_dll_ready" to match DLL state diagrams. C/ 145 SC 145.5.3.4.2 P 230 L 15 # r01-264 C/ 145 SC 145.5.3.4.2 P 230 L 15 # r01-264 C/ 145 SC 145.5.3.4.2 P 230 L 15 # r01-264 C/ 145 SC 145.5.3.4.2 P 230 L 15 # r01-264 C/ 145 SC 145.5.3.4.2 P 230 L 15 # r01-264 C/ 145 SC 145.5.3.4.2 P 230 L 15 # r01-264 C/ 145 SC 145.5.3.4.2 P 230 L 15 # r01-264 C/ 145 SC 145.5.3.4.2 P 230 L 15 # r01-264 C/ 145 SC 145.5.3.4.2 P 230 L 15 # r01-264 Comment Type TR Comment Status C Comment Type TR Comment Status A Comment Type TR Comment Status A	
SuggestedRemedy Change to "Values: 0 through 999" Comment Type TR Comment Status A Response Response Status C Entry arc into INITIALIZE should be "!pd_dll_enable + !pd_dll_ready" Entry arc into INITIALIZE should be "!pd_dll_enable + !pd_dll_ready" to match DLL state diagrams. C/ 145 SC 145.5.3.4.2 P 230 L 15 # [r01-264] SuggestedRemedy Change to: "!pd_dll_enable + !pd_dll_ready" Change to: "!pd_dll_enable + !pd_dll_ready" SuggestedRemedy Change to: "!pd_dll_enable + !pd_dll_ready" Change to: "!pd_dll_enable + !pd_dll_enable + !pd_dll_	r01-267
ACCEPT. DLL state diagrams. Cl 145 SC 145.5.3.4.2 P 230 L 15 # r01-264 Cl 145 SC 145.5.3.4.2 P 230 L 15 # r01-264 Cl 145 SC 145.5.3.4.2 P 230 L 15 # r01-264 Comment Type TR Comment Status A DLL Comment Type TR Comment Status A DLL	DI
Cl 145 SC 145.5.3.4.2 P 230 L 15 # r01-264 SuggestedRemedy Cl 145 Science Philips Lighting Change to: "!pd_dll_enable + !pd_dll_ready" Comment Type TR Comment Status A DLL	with other
Yseboodt, Lennart Philips Lighting Response Response Status C Comment Type TR Comment Status A DLL ACCEPT.	
Comment Type TR Comment Status A DLL ACCEPT.	
Must match valid range of MirroredPSEAllocatedPowerValue.	
SuggestedRemedy	
Change to: "Values: 0 through 999"	
Response Response Status C	
ACCEPT.	

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Page, Line Pa **233** Li **3**

IEEE P802.3bt D3.1 4-Pair PoE 1st Sponsor recirculation ballot comments C/ 145 SC 145.5.3.4.5 P 233 L 23 # r01-268 C/ 145 P 233 L 51 # SC 145.5.3.5 r01-271 Philips Lighting Yseboodt, Lennart Philips Lighting Yseboodt, Lennart Comment Type E Comment Status A **F**ditorial Comment Type T Comment Status A The exit branch from REQUEST to IDLE has the "+" at the start of the next line. Table 145-41 has mapping from non-existing variable pd_dll_ready_mode(X) to nonexisting state diagram object aLldpXdot3LocReadvA / aLldpXdot3LocReadvB. SuggestedRemedy SuggestedRemedy Move the "+" to the end of the line above. Remove those lines and replace by mapping: Response Response Status C aLldpXdot3LocReady <= pd_dll_ready ACCEPT. Response Response Status C ACCEPT. C/ 145 SC 145.5.3.5 P233 L 33 # r01-269 Yseboodt, Lennart Philips Lighting C/ 145 SC 145.5.3.6.1 P234 L 40 # r01-307 Comment Type ER Comment Status A Editorial RAN, ADEE Intel Corporation In Table 145-41 we find the mappings between state diagram variables and Clause 30 Comment Type Е Comment Status A obiects. Typo: "It's" should be "Its". For dual-signature, we've used the notation "PDRequestedPowerValueEcho_alt(X=A)" to indicate we refer to variable PDRequestedPowerValueEcho alt(A). Also in 145.5.3.7.1. P281 L14. Given that we now also use "P" as a variable pointing to the active state diagram, this SuggestedRemedy notation no longer feels right. Change per comment. SuggestedRemedy Response Response Status C Replace in Table 145-41 every instance of "(X=A)" with "(A)" and "(X=B)" with "(B)". ACCEPT IN PRINCIPLE. Response Response Status C Change per comment. ACCEPT. Also in 145.5.3.6.1, page 239, line 14 C/ 145 SC 145.5.3.5 P233 L 41 # r01-270 Yseboodt, Lennart Philips Lighting Comment Status A DLL Comment Type T Table 145-41 has mapping from non-existing variable pse dll ready alt(X) to non-existing state diagram object aLldpXdot3LocReadyA / aLldpXdot3LocReadyB. SuggestedRemedy Remove this mapping. Another comment re-structures these tables as part of a DLL re-shuffle, Editor to verify one and only one mapping exists for pse dll ready. Response Response Status C

ACCEPT.

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

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DLL

C/ 145 SC 145.5.3.6.2 P 234 L 46 # r01-272 Yseboodt, Lennart Philips Lighting P	C/ 145 SC 145.5.3.6.2 P 235 L 45 # r01-273 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. DLL Also the reference to 145.3.3 can now be made to the DLL specific 145.5.3.6.1. DLL	Comment Type TR Comment Status A Data Values of pse_initial_value_alt(X) are incorrect, should match PClass_PD. Data SuggestedRemedy - For pse_allocated_pwr_pri/sec=5 change pse_initial_value_alt(X) to 356 Data
SuggestedRemedy 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	- Replace "pse_allocated_pwr_mode_pri/sec" to "pse_allocated_pwr_pri/sec" Response Response Status C ACCEPT.
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.	CI 145SC 145.5.3.7.2P 239L 32#r01-360Stewart, HeathAnalog Devices Inc.Comment TypeTRComment StatusADataAn old 35.5W number needs to be updated to 35.6W to track the rest of the clause.
The PSE power control state diagram (Figure 145-39, Figure 145-40, Figure 145-43, and Figure 145-44) uses the following variables:" Response Response Status C ACCEPT.	SuggestedRemedy Change 355 to 356 Response Response Status C ACCEPT IN PRINCIPLE.
C/ 145 SC 145.5.3.6.2 P 235 L 45 # [r01-359] Stewart, Heath Analog Devices Inc. DLL Comment Type TR Comment Status A DLL	- For pd_req_class_mode(X)=5 change pd_dll_max_value_mode(X) to 356 This resolution is identical to comment #274.
Comment Type TR Comment Status A DLL An old 35.5W number needs to be updated to 35.6W to track the rest of the clause. SuggestedRemedy Change 355 to 356 Comment Status Comment Status	C/145SC145.5.3.7.2P 239L 32#r01-274Yseboodt, LennartPhilips LightingComment TypeTRComment StatusAD
Response Response Status C ACCEPT IN PRINCIPLE.	Values of pd_dll_max_value_mode(X) is incorrect, should match PClass_PD. SuggestedRemedy - For pd_req_class_mode(X)=5 change pd_dll_max_value_mode(X) to 356
 For pse_allocated_pwr_pri/sec=5 change pse_initial_value_alt(X) to 356 	Response Response Status C

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Page, Line Pa **239** Li **32** Page 121 of 130 12/1/2017 3:17:49 PM

C/ 145 SC 145.5.3.7								
Yseboodt, Lennart	7.3 P 239 Philips Lighting	L 35	# r01-275	Cl 145 SC Yseboodt, Lenna	145.5.3.7 . Irt	3 P 240 Philips Lightir	L 25 ng	# r01-277
Comment Type ER The introductory text for	<i>Comment Status</i> A or "145.5.3.7.3 Variables" only	refers to "X" as t	DLL Deing a variable	<i>Comment Type</i> Values of pd	TR _max_pow	Comment Status A er_mode(X) should match P	Class_PD.	DLL
	on "P" which was added at D3. 45.3.3 can now be made to the		45.5.3.7.1.	SuggestedReme	dy	node(X)=5 change pd_initial_		to 356.
SuggestedRemedy				Response		Response Status C		
	trol state diagram (Figure 145-	41) use "_mode	(X)", which is defined	ACCEPT.		·		
in 145.3.3, and the foll	owing variables:XX provide the behavior of the stat	e diagram show	n in Figure 145-45	Cl 145 SC Skinner, John	145.5.4	P 244	L 7	# r01-399
	pendently unless otherwise spe		IT IT Figure 143-45	Comment Type	Е	Comment Status A		Editoria
"_mode(X)" where "X" defined in 145.5.3.7.1.	apply to Mode A and Mode B can be "A" or "B", or "_mode(F A parameter that ends with the)" where "P" car	n be "A" or "B", as			shall use values in the range Same problem exists for the r		
values for Mode A and	Mode D.			SuggestedReme	dy			
The PD power control variables:**"	state diagram (Figure 145-45 a	and Figure 145-4	6) use the following			enced on line 7 from Table 14 8 from Table 145-42 to Tab		45-42. Change the
Deemenee	Response Status C			Response		Response Status C		
Response ACCEPT.				ACCEPT.				
ACCEPT. C/ 145 SC 145.5.3.7	7.3 P240	L 10	# r01-276	C/ 145 SC	145.5.4	P 244 Ciena Corpor	L 24	# <u>r01-29</u>
ACCEPT. C/ 145 SC 145.5.3.7 Yseboodt, Lennart	7.3 P240 Philips Lighting			Cl 145 SC Anslow, Peter		Ciena Corpor		
ACCEPT. <i>Cl</i> 145 <i>SC</i> 145.5.3.7 Yseboodt, Lennart <i>Comment Type</i> TR Wrong valid values for These must be bound <i>SuggestedRemedy</i>	7.3 P240	ode(X): "Values:	DLL	Cl 145 SC Anslow, Peter Comment Type A table footn Same issue See commen removal of "l	E ote should with footno nt #147 from NOTE" as		ation dy a note. g Editor, IEEE-S	Editoria
ACCEPT. <i>Cl</i> 145 <i>SC</i> 145.5.3.7 Yseboodt, Lennart <i>Comment Type</i> TR Wrong valid values for These must be bound <i>SuggestedRemedy</i>	7.3 P240 Philips Lighting <i>Comment Status</i> A PDRequestedPowerValue_mode by pd_dllmax_value_mode(X).	ode(X): "Values:	DLL	C/ 145 SC Anslow, Peter Comment Type A table footn Same issue See commer removal of "1 http://www.ie	E ote should with footno nt #147 from NOTE" as see802.org	Ciena Corpor Comment Status A not start "NOTE" it is alrea te to Table 145-43. m Michelle Turner, Managing documented in:	ation dy a note. g Editor, IEEE-S	Editoria
ACCEPT. <i>Cl</i> 145 <i>SC</i> 145.5.3.7 Yseboodt, Lennart <i>Comment Type</i> TR Wrong valid values for These must be bound <i>SuggestedRemedy</i> Replace by: "Values: 0	7.3 P240 Philips Lighting <i>Comment Status</i> A PDRequestedPowerValue_mode by pd_dllmax_value_mode(X).	ode(X): "Values:	DLL	Cl 145 SC Anslow, Peter Comment Type A table footn Same issue See commen removal of "I http://www.ie SuggestedReme	E ote should with footno nt #147 from NOTE" as see802.org, dy	Ciena Corpor Comment Status A not start "NOTE" it is alrea te to Table 145-43. m Michelle Turner, Managing documented in:	ation dy a note. g Editor, IEEE-S 17.pdf#page=3	<i>Editorial</i>

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C/ 145 Yseboodt,	SC 145.5.4 Lennart	P 244 Philips Lighting	L 27	# r01-27	8	C/ 145 RAN, ADEE	SC 14	5.5.6	P 246 Intel Corpora	L 3 tion	# r01-309
<i>Comment</i> Table	51	Comment Status A tle and header "_alt(X)", but t	his is about the	PD.	DLL	Comment T		-	Comment Status A e the LLDPDUs"		DLL
Suggested Chang	<i>IRemedy</i> je both occurance	s to "_mode(X)".					Us are da PSE and		cks sent over the LLDP proto	ocol. They conta	ain many other things,
Response ACCE	PT.	Response Status C				It would protocol		e adequ	ate to refer to the Power ov	er MDI TLV, or	alternatively to the LLDP
C/ 145	SC 145.5.5.1	P 245	L 20	# r01-40	D	Also, a	cross-ref	ference	would be useful.		
Skinner, J	ohn					SuggestedF	Remedy				
power transit condit (PSEA transit PD are	atement "When th allocation." is too ion from PSE_PC ions: Either (pse_ IllocatedPowerVa ion can only occu e in sync.	Comment Status A ne PSE is not in sync with the broad, based on the condition WER_REVIEW to MIRROR new_value < PSEAllocatedP lue=MirroredPSEAllocatedP r when the PSE is reducing t	ons shown in Fi _UPDATE is go owerValue) OR owerValueEcho	gure 145-39. The overned by the c). Therefore, the	-	"Utilize f or "Use the <i>Response</i> ACCEP	the Powe e LLDP p T IN PRI	er over protocol INCIPL	PDUs" to either: MDI TLV (See 79.3.2)" I (See Clause 79)" <i>Response Status</i> C E. .DP protocol (See Clause 79))"	
Suggested	•	n line 20 to "When the PSE i	s not in sync wi	th the PD the PS	Fic	C/ 145	SC 14	5.5.6.1	P 246	L 50	# r01-279
allowe	d to reduce its po	wer allocation.". Alternatively	, remove the st	atement, as the	L 13	Yseboodt, L	ennart		Philips Lighti	ng	
	ions are correctly	discussed in the paragraph s	starting on line	23.		Comment T	ype E	E	Comment Status A		Editorial
ACCE	Response Response Status C ACCEPT IN PRINCIPLE. Remove quoted sentence.				power it 145-43	t needs fo this is the	or 2- pa e reque	at is switched from 4-pair to air operation in the PDReque ested power for the active Me 45-43, not Annex.	stedPowerValu		
						SuggestedF					
						00		145-43 1	to Table 145-43.		
						Response			Response Status C		

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The statement "When the PSE is not in sync with the PD, the PSE is allowed to change its power allocation." Is too broad, based on the continuous shown in Figures 145-43 and 145-43 is governed by the conditions. Either (pse_new_value_al(X) < PSEAllocatedPowerValue_al(X) < PSEAllocatedPowerValue_All(X) < PSEAllocatedPow	C/ 145 SC 145.5.6.2 P247 L4 # r01-401	C/ 145		145.7	P 2		L 1	#	r01-318
The statement "When the PSE is not in sync with the PD, the PSE is allowed to change its power allocation." Is too broad, based on the conditions shown in Figures 145-43 and 145-44. The transition from PSE POWER REVIEW to MIRROR UPDATE in Figure 145-43 is governed by the conditions. Ether (pse_new_value_all(X) < PSE AllocatedPowerValue_all(X) = PSE AllocatedPowerValue_all(X). The transition from PSE POWER REVIEW to MIRROR UPDATE in Figure 145-43 is governed by the conditions. Ether (pse_new_value_all(X) < PSE AllocatedPowerValue_all(X) = PSE AllocatedPowerValue_all(X). The transition from PSE POWER REVIEW to MIRROR UPDATE in Figure 145-43 is governed by the conditions. Ether (pse_new_value_all(X) < PSE AllocatedPowerValue_d). The presenver allocatedPowerValue_all(X). The transition from PSE POWER REVIEW to MIRROR UPDATE in Figure 145-43 is governed by the conditions and only occur when the PSE is reducing the allocation OR when the PSE is not in sync with the PD, the PSE is allowed to reduce its power allocation." Alternatively, remove the statement, as the conditions are correctly discussed in the paragraph starting on line 7. Response Response Status C ACCEPT IN PRINCIPLE. Remove quoted sentence. Cl 145 SC 145.5.7 P248 L3 # (r01-402) Skinner, John Comment Type E Comment Status A L3 # (r01-402) Skinner, John Comment Type E Comment Status A L3 # (r01-402) Skinner, John Molf y the same procedure and follow the procedure in 145.5.5.1,** only defines how to update Single Signature devices. There are no apparent limitation sicused in 145.5.5.1,** only defines how to update Single Signature devices. There are no procedure in 145.5.5.1,** only defines how to update Single Signature devices. There are no procedure in 145.5.5.1,** only defines how to update Single Signature devices. There are no procedure in 145.5.5.1,** only defines how to update Single Signature devices. There are no procedure in 145.5.5.1,** only defines how to update Single Signature devices. Single Signature devices. There are no procedure in 145.	Skinner, John	Jones, Ch	ad		Cisco	Systems,	Inc.		
power allocation.* is too broad, based on the conditions shown in Figures 145-43 and 145-44. The transition from PSE POWER, REVIEW to MIRROR_UPDATE in Figure 145-43 is governed by the conditions: Either (pse_new_value_all(X) <	Comment Type E Comment Status A	DLL Comment	Туре	Е	Comment Status	Α			Pres: Chabot
governed by the conditions: Either (pse_new_value_alt(X) <	power allocation." is too broad, based on the conditions shown in Figures 145-43 and 14	5- PICS					mative text o	of the Clause	e 145
PSEAllocatedPowerValue_alt(X) Adopt changes in chabot_01_1117.pdf PSEAllocatedPowerValue_alt(X) The statement in line 4 to "When the PSE is not in sync. with the PD, the PSE is a correctly discussed in the paragraph starting on line 7. P252 L19 # [01-310] SuggestedRemedy Change the statement in line 4 to "When the PSE is not in sync. with the PD, the PSE is a correctly discussed in the paragraph starting on line 7. P252 L19 # [01-310] Response Response Status C Comment Status A Pres: C ACCEPT IN PRINCIPLE. Remove quoted sentence. CI 145 SC 145.5.7 P248 L3 # [01-402] The statement 'the PSE may update the PSEAllocatedPowerValue and follow the procedure in 145.5.5.1." only defines how to update Single Signature Devices. DLL SuggestedRemedy Is support the PLS is and 145.2.7.2 or 145.3.6.2 (or the state diagram Figure 145.3.7.2 or 145.3.6.2 (or the state diagram Figure 145.3.7.3 or 145.5.6.2 (dual signature Devices. SuggestedRemedy Is uspect that the table is garbled and there should be mutually exclusive items for a laternative A and alternative A is correct. SuggestedRemedy SuggestedRemedy Modify the statement to add a reference to the PSE state change procedure across a link (dual s		is Suggeste	dReme	dy					
transition from PSE_POWER_REVIEW to MIRROR_UPDATE in Figure 145-44 is governed by the conditions: Ether (pse, new, value, all(P) < PSEAllocatedPower/ValueEAN). Therefore, in both cases, the transition can only occur when the PSE is reducing the allocation OR when the PSE allocatedPower/ValueEAN). Therefore, in both cases, the transition can only occur when the PSE is reducing the allocation OR when the PSE allocatedPower/ValueEAN). Therefore, in both cases, the transition can only occur when the PSE is reducing the allocation OR when the PSE allocated power/ValueEAN.	PSEAllocatedPowerValue_alt(X)) OR	Adop	t chang	es in chab	ot_01_1117.pdf				
cases, the transition can only occur when the PSE is reducing the allocation OR when the PSE and PD are in sync. Update PICS to match text in D3.2. SuggestedRemedy Change the statement in line 4 to "When the PSE is not in sync with the PD, the PSE is allowed to reduce its power allocation.". Alternatively, remove the statement, as the conditions are correctly discussed in the paragraph starting on line 7. Intel Corporation Response Response Status C Comment Type T Comment Status A Pres: C Cl 145 SC 145.5.7 P248 L3 # [r01-402] Skinner, John DLL The statement ".im.the PSE may update the PSEAllocatedPowerValue and follow the procedure in 145.5.5.1." only defines how to update Single Signature devices. DLL The statement ".im.the PSE may update the PSEAllocatedPowerValue and follow the procedure in 145.5.5.1." only defines how to update Single Signature devices. DLL SuggestedRemedy Modify the statement to add a reference to the PSE state change procedure across a link (dual signature) "the PSE may update the PSEAllocatedPowerValue and follow the procedure in 145.5.5.1." only defines how to update Single Signature devices. DLL SuggestedRemedy Modify the statement to add a reference to the PSE state change procedure across a link (dual signature) "the PSE may update the PSEAllocatedPowerValue and follow the procedure in 145.5.5.1." (single signature devices. Edit the PICS item list to make it correct. SuggestedRemedy Mod	transition from PSE_POWER_REVIEW to MIRROR_UPDATE in Figure 145-44 is governed by the conditions: Either (pse_new_value_alt(P) < PSEAllocatedPowerValue) (,		PRINCIPL	•	С			
SuggestedRemedy Cl 145 SC 145.7.2.4 P22 L19 # [01-310] Change the statement in line 4 to "When the PSE is not in sync with the PD, the PSE is allowed to reduce its power allocation.". Alternatively, remove the statement, as the conditions are correctly discussed in the paragraph starting on line 7. RAN, ADEE Intel Corporation Response Response Status C C ACCEPT IN PRINCIPLE. Cl 145 SC 145.5.7 P248 L3 # [01-402] Kinner, John Comment Type E Comment Status A L3 # [01-402] The statement "the PSE may update the PSEAllocatedPowerValue and follow the procedure in 145.5.5.1." only defines how to update Single Signature devices. There are no apparent limitations discussed in 145.2.7.2 or 145.3.6.2 (or the state diagram Figure 145-13) L3 # [01-402] SuggestedRemedy Modify the statement to add a reference to the PSE state change procedure across a link (dual signature)." DLL SuggestedRemedy SuggestedRemedy Modify the statement to add a reference to the PSE state change procedure across a link (dual signature)."the PSE may update the PSE state change procedure across a link (dual signature)."the PSE may update the PSE state change procedure across a link (dual signature)." SuggestedRemedy SuggestedRemedy SuggestedRemedy Response Response Status C C ACCEPT.	cases, the transition can only occur when the PSE is reducing the allocation OR when the	ne Upda	te PICS	to match	text in D3.2.				
allowed to reduce its power allocation.". Alternatively, remove the statement, as the conditions are correctly discussed in the paragraph starting on line 7. Pres: C Response Response Status C ACCEPT IN PRINCIPLE. Comment Type E Comment Status A Pres: C CI 145 SC 145.5.7 P248 L3 # [01-402] Skinner, John DLL The statement "the PSE may update the PSEAllocatedPowerValue and follow the procedure in 145.5.1." only defines how to update Signature devices. DLL The statement inditations discussed in 145.2.7.2 or 145.3.6.2 (or the state diagram Figure 145.13) regarding Autoclass being solely used with single Signature Devices. DLL SuggestedRemedy Modify the statement to add a reference to the PSE state change procedure across a link (dual signature)." Lift 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 Response Status C A Response Response Status C C	SuggestedRemedy			145.7.2.4	_	-		#	r01-310
ACCEPT IN PRINCIPLE. Remove quoted sentence. Cl 145 SC 145.5.7 P248 L3 procedure in 145.5.5.1 Skinner, John Comment Type E Comment T	allowed to reduce its power allocation.". Alternatively, remove the statement, as the	Item '	'*MID" ł	nas status	"O/1" which means i	is mutual		with item "*(
Remove quoted sentence. Cl 145 SC 145.5.7 P 248 L 3 # [0]-402 Skinner, John Comment Type E Comment Status A DLL The statement "the PSE may update the PSEAllocatedPowerValue and follow the procedure in 145.5.5.1." only defines how to update Single Signature devices. There are no apparent limitations discussed in 145.2.7.2 or 145.3.6.2 (or the state diagram Figure 145-13) regarding Autoclass being solely used with single Signature Devices. L 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 classification is simply optional. SuggestedRemedy Modify the statement to add a reference to the PSE state change procedure across a link (dual signature) "the PSE may update the PSEAllocatedPowerValue and follow the procedure in 145.5.5.1 (single signature) or 145.5.6.2 (dual signature)." Response Response Status C Response Response Status C ACCEPT. ACCEPT.					and only one of the g	oup of op	tions labeled	by the sam	e numeral
Cl 145 SC 145.5.7 P 248 L 3 # [01-402] Skinner, John Skinner, John DLL Comment Type E Comment Status A DLL The statement "the PSE may update the PSEAllocatedPowerValue and follow the procedure in 145.5.1." only defines how to update Single Signature devices. There are no apparent limitations discussed in 145.2.7.2 or 145.3.6.2 (or the state diagram Figure 145-13) regarding Autoclass being solely used with single Signature Devices. SuggestedRemedy SuggestedRemedy Modify the statement to add a reference to the PSE state change procedure across a link (dual signature) "the PSE may update the PSEAllocatedPowerValue and follow the procedure in 145.5.5.1 (single signature) or 145.5.6.2 (dual signature)." SuggestedRemedy Response Response Status C		Is Mic	lspan P	SE incom	patible with "Impleme	ntation su	ipports Physi	cal Layer cl	assification"?
Skinner, John Comment Type E Comment Status A DLL The statement "the PSE may update the PSEAllocatedPowerValue and follow the procedure in 145.5.5.1." only defines how to update Single Signature devices. There are no apparent limitations discussed in 145.2.7.2 or 145.3.6.2 (or the state diagram Figure 145-13) regarding Autoclass being solely used with single Signature Devices. 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 classification is simply optional. SuggestedRemedy Modify the statement to add a reference to the PSE state change procedure across a link (dual signature) "the PSE may update the PSEAllocatedPowerValue and follow the procedure in 145.5.5.1 (single signature) or 145.5.6.2 (dual signature)." If there is indeed a reason for this mutual exclusion, include clear statements in the referenced subclauses. Response Response Status C Response Response Status C	· · · · · · · · · · · · · · · · · · ·			the corre	sponding subclauses	, 145.2.3 a	and 145.2.7,	it isn't clear	to me why
Comment TypeEComment StatusADLLThe statement "the PSE may update the PSEAllocatedPowerValue and follow the procedure in 145.5.5.1." only defines how to update Single Signature devices. There are no apparent limitations discussed in 145.2.7.2 or 145.3.6.2 (or the state diagram Figure 145- 13) regarding Autoclass being solely used with single Signature Devices.alternative A and alternative B (which currently does not appear at all), while Physical 									
The statement "the PSE may update the PSEAllocatedPowerValue and follow the procedure in 145.5.5.1." only defines how to update Single Signature devices. There are no apparent limitations discussed in 145.2.7.2 or 145.3.6.2 (or the state diagram Figure 145-13) regarding Autoclass being solely used with single Signature Devices. classification is simply optional. SuggestedRemedy Edit the PICS item list to make it correct. Modify the statement to add a reference to the PSE state change procedure across a link (dual signature) "the PSE may update the PSEAllocatedPowerValue and follow the procedure in 145.5.5.1 (single signature) or 145.5.6.2 (dual signature)." If there is indeed a reason for this mutual exclusion, include clear statements in the referenced subclauses. Response Response Status C	Comment Type E Comment Status A								
apparent limitations discussed in 145.2.7.2 or 145.3.6.2 (or the state diagram Figure 145- 13) regarding Autoclass being solely used with single Signature Devices. SuggestedRemedy SuggestedRemedy Modify the statement to add a reference to the PSE state change procedure across a link (dual signature) "the PSE may update the PSEAllocatedPowerValue and follow the procedure in 145.5.5.1 (single signature) or 145.5.6.2 (dual signature)." If there is indeed a reason for this mutual exclusion, include clear statements in the referenced subclauses. Response Response Status C		classi				liy udes n	or appear ar	all), write F	nysical layer
13) regarding Autoclass being solely used with single Signature Devices. Edit the PICS item list to make it correct. SuggestedRemedy Modify the statement to add a reference to the PSE state change procedure across a link (dual signature) "the PSE may update the PSEAllocatedPowerValue and follow the procedure in 145.5.5.1 (single signature) or 145.5.6.2 (dual signature)." If there is indeed a reason for this mutual exclusion, include clear statements in the referenced subclauses. Response Response Status C Response Response Status C			dReme	dy					
Modify the statement to add a reference to the PSE state change procedure across a link (dual signature) "the PSE may update the PSEAllocatedPowerValue and follow the procedure in 145.5.5.1 (single signature) or 145.5.6.2 (dual signature)." Response Response Status C ACCEPT.			ne PICS	s item list t	o make it correct.				
Modify the statement to add a reference to the PSE state change procedure across a link (dual signature) "the PSE may update the PSEAllocatedPowerValue and follow the procedure in 145.5.5.1 (single signature) or 145.5.6.2 (dual signature)." referenced subclauses. Response Response Status C	SuggestedRemedy	If the	o is ind	ood a road	on for this mutual ex	clusion in	clude clear s	tatomonte i	n tha
procedure in 145.5.5.1 (single signature) or 145.5.6.2 (dual signature)." Response Response Status C Response Response Status C									
Response Response Status C ACCEPT.		Response	;		Response Status	с			
		ACCE	PT.						
		-							
Editor to note in sections 145.2.7.2 and 145.3.6.2 that AutoClass is only supported by SS PDs.		5							

Pa **252** Li **19**

C/ 145 SC 145.7.3.1 RAN, ADEE	P 253 Intel Corporation	L 8	# r01-311	C/ 145 SC 145.5 RAN, ADEE	P 256 L Intel Corporation	53 # <u>r01-303</u>
Comment Type T Thankfully, the compatitive requirement any more. SuggestedRemedy Delete item COM1. Response ACCEPT.	Comment Status A bility considerations in 145.1.1 a Response Status C	are not stated	<i>PICS</i> as a mandatory	Comment Type E The second paragraph SuggestedRemedy Move this paragraph to Response ACCEPT.	Comment Status A of 145.5 seems to belong to 145.5.1 the end of 145.5.1. Response Status C	Editorial TLV frame definition.
Cl 145 SC 145.7.3.2 Yseboodt, Lennart Comment Type E	P 254 Philips Lighting Comment Status A purious period before "PD".	L12	# <u>r01-280</u> Editoiral	Cl 145 SC 145.7.3.2 Yseboodt, Lennart Comment Type E "PSE55 In theCLASS_ Sentence is missing st	Philips Lighting Comment Status A RESET, CLASS_RESET_PRI or CL	24 # r01-282 Editorial ASS_RESET_SEC state"
SuggestedRemedy Remove period. Response ACCEPT.	Response Status C			SuggestedRemedy Change to: "PSE55 In the CLASS Response ACCEPT.	RESET, CLASS_RESET_PRI or CL Response Status C	ASS_RESET_SEC state"
Cl 145 SC 145.7.3.2 Yseboodt, Lennart Comment Type E "PSE28 PD_4pair_cand Variable name should n SuggestedRemedy Change to: "PSE28 pd_4pair_cand Response	ot be capitalized.	L 10	# <u>r01-281</u> PICS	Cl 145 SC 145.7.3.2 Yseboodt, Lennart Comment Type E "pd_auotclass TRUE w Misspelled variable. SuggestedRemedy Change to: "pd_autoclass TRUE w	Philips Lighting <i>Comment Status</i> A when PSE reaches POWER_ON state when PSE reaches POWER_ON state	
ACCEPT.				Response ACCEPT.	Response Status C	

Pa **257** Li **32**

CI 145 SC 145.5.3.3.1 P 258 L 46 # [r01-305] RAN, ADEE Intel Corporation Intel Corporation Intel Corporation Intel Corporation	C/ 145 SC 145.7.3.3 P 265 L 12 # r01-369 Lemahieu, Joris ON Semiconductor
Comment Type E Comment Status A Editoria Why is information about a single variable stated before the list instead of at this variable's	Comment Type G Comment Status A PICS "Meet the operating power limits after TLIM min"
description? Also applicable in 145.5.3.4.1, 145.5.3.4.2, 145.5.3.6.2, 145.5.3.7.2, and 145.5.3.7.3	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
SuggestedRemedy In the definition of pse_initial_value, insert after the first sentence: "The value is quantized to fit the available resolution. Additional information on power levels for Classes 6 and 8 may be found in 145.3.8.2.1."	Response Response Status C ACCEPT IN PRINCIPLE. Update PICS to match text in D3.2.
Delete the first paragraph of 145.5.3.3.1.	This resolution is identical to comment #318.
Apply appropriate changes similarly in the other places indicated in the comment. Response Response Status C ACCEPT.	Cl 145 SC 145.5.3.6.2 P 274 L 16 # [r01-308] RAN, ADEE Intel Corporation Intel Corporation Intel Corporation Intel Corporation
	Comment Type E Comment Status A Editoria
	The previous paragraph ends with "the following variables:" so the list of variables should appear right after it.
Yseboodt, Lennart Philips Lighting Comment Type E Comment Status A Editoria "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" Two spaces missing.	appear right after it.
Yseboodt, Lennart Philips Lighting Comment Type E Comment Status A Editoria "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" Two spaces missing.	appear right after it. But instead, we get this paragraph, which seems out of place. SuggestedRemedy Move this paragraph (staring with "Dual-signature PSEs") to be the first paragraph in this subclause. Response Response Status C ACCEPT. C/ 145A SC 145A.2 P275 L25 # [101-470] Darshan, Yair
Yseboodt, Lennart Philips Lighting Comment Type E Comment Status A Editoria "PD45 Input average powerexceptions for Class 6 and Class 8single-signature PDs" Two spaces missing. Editoria SuggestedRemedy Change to: "PD45 Input average power exceptions for Class 6 and Class 8 single-signature PDs" Response Response Status	appear right after it. But instead, we get this paragraph, which seems out of place. SuggestedRemedy Move this paragraph (staring with "Dual-signature PSEs") to be the first paragraph in this subclause. Response Response Status C ACCEPT. C/ 145A SC 145A.2 P275 L25 # [101-470]
Yseboodt, Lennart Philips Lighting Comment Type E Comment Status A Editoria "PD45 Input average powerexceptions for Class 6 and Class 8single-signature PDs" Two spaces missing. Editoria SuggestedRemedy Change to: "PD45 Input average power exceptions for Class 6 and Class 8 single-signature PDs" Response Response Status C	appear right after it. But instead, we get this paragraph, which seems out of place. SuggestedRemedy Move this paragraph (staring with "Dual-signature PSEs") to be the first paragraph in this subclause. Response Response Status C ACCEPT. C/ 145A SC 145A.2 P275 L 25 # r01-470 Darshan, Yair Comment Type E Comment Status A Editoria Title is not accurate. Change from "Unbalance overview" to "Pair-to-pair unbalance

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Pa **275**

Li **25**

C/ 145A SC 145A.4 P 277 L 44 # r01-471 Darshan, Yair	C/ 145A SC 145A.5 P 278 L 44 # [r01-285] Yseboodt, Lennart Philips Lighting Philips Lighting Philips Lighting Philips Lighting
Comment Type E Comment Status A Editorial After the last changed for D3.1, The link should be figure 145A-1 and not Figure 145-22.	Comment Type E Comment Status A Editorial "(e.g. V f1 ? V f3).The common mode"
SuggestedRemedy Change from " Figure 145-22" to "Figure 145A-1".	Missing space. SuggestedRemedy
Response Response Status C ACCEPT.	Add space.
Cl 145A SC 145A.4 P 277 L 50 # r01-472	Response Response Status C ACCEPT. C
Darshan, Yair Comment Type E Comment Status A Editorial	C/ 145A SC 145A.5 P 278 L 46 # r01-474 Darshan, Yair
Missing link to Figure 145-22 in the text: "PSE current unbalance requirements need to be	Comment Type T Comment Status A Annex
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,	Missing information in the annex. Append text that PD pair to pair voltage difference was limited to 60mV max for the current spec numbers.
including the effects (or influence) of system end-to-end unbalance."	SuggestedRemedy
SuggestedRemedy 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.	Add the following text after line 46: "PD pair-to-pair voltage difference e.g. Vf1-Vf3 was limited to 60mV to get the spec for Icon- 2P unb under worst case conditions."
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."	Response Response Status C ACCEPT IN PRINCIPLE.
Response Response Status C ACCEPT.	Add the following text after line 46: "PD pair-to-pair voltage difference (e.g. Vf1-Vf3) was limited to 60mV while generating values for Icon-2P_unb under worst case conditions."
C/ 145A SC 145A.5 P 278 L 3 # r01-473 Darshan, Yair	<i>Cl</i> 145B <i>SC</i> 145B.1 <i>P</i> 281 <i>L</i> 21 # <u>r01-475</u> Darshan, Yair
Comment Type T Comment Status A Editorial Missing information in the annex. Append text that PSE pair to pair voltage difference was limited to 10mV max for the current spec numbers. Editorial	Comment Type T Comment Status D Pres: Darshan2 For clarity, to add drawings to Annex 145B.1 demonstrating the definition of parallel/staggered detection
SuggestedRemedy	SuggestedRemedy
Add the following text after line 3: "PSE pair-to-pair voltage difference is specified by Vport_PSE-2P in table 145-16."	Adopt darshan_02_1117.pdf
Response Response Status C	Proposed Response Response Status Z
ACCEPT.	REJECT.
	This comment was WITHDRAWN by the commenter.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general Page 127 of 130 Pa **281** COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn 12/1/2017 3:17:49 PM Li **21** SORT ORDER: Page, Line

C/ 145B SC 145B.1.3 P 283 L 32 # [r01-476] Darshan, Yair	C/ 145B SC 145B.1.3 P 284 L 2 # r01-478 Darshan, Yair
Comment Type T Comment Status D Annex	Comment Type T Comment Status D Annex
The text "Figure 145B-8 illustrates a PSE implementing CC_DET_SEQ=2 when the connection check result is dual and pd_4pair_cand is initially TRUE." is incorrect. "pd_4pair_cand is initially TRUE" should be "class_4PID_mult_events_pri or class_4PID_mult_events_sec is TRUE"	The text "Figure 145B-9 illustrates a PSE implementing CC_DET_SEQ=2 when the connection check result is dual and pd_4pair_cand is initially FALSE." is incorrect. "pd_4pair_cand is initially TRUE" should be "class_4PID_mult_events_pri or class_4PID_mult_events_sec is TRUE"
SuggestedRemedy	SuggestedRemedy
Change from: "Figure 145B-8 illustrates a PSE implementing CC_DET_SEQ=2 when the connection check result is dual and pd_4pair_cand is initially TRUE." To: "Figure 145B-8 illustrates a PSE implementing CC_DET_SEQ=2 when the connection check result is dual and class_4PID_mult_events_sec is TRUE."	Change from: "Figure 145B-9 illustrates a PSE implementing CC_DET_SEQ=2 when the connection check result is dual and pd_4pair_cand is initially FALSE." To: "Figure 145B-9 illustrates a PSE implementing CC_DET_SEQ=2 when the connection check result is dual and class_4PID_mult_events_sec is TRUE."
Proposed Response Response Status Z REJECT.	Proposed Response Response Status Z REJECT.
This comment was WITHDRAWN by the commenter.	This comment was WITHDRAWN by the commenter.
C/ 145B SC 145B.1.3 P 283 L 45 # [r01-477] Darshan, Yair	C/ 145B SC 145B.1.4 P 284 L 34 # r01-479 Darshan, Yair
Comment Type T Comment Status D Annex	Comment Type T Comment Status D Annex
In "Figure 145B-8NPSE implementing CC_DET_SEQ=2, do_cxn_chk result is dual, simultaneous power on". remove the text "simultaneous power on" which may be incorrect	The text "Figure 145B-11 illustrates a PSE implementing CC_DET_SEQ=3 when the connection check result is dual." is incomplete.
for dual-signature PD case.	SuggestedRemedy
SuggestedRemedy remove the text "simultaneous power on" which may be incorrect for dual-signature PD case	Change from: ""Figure 145B-11 illustrates a PSE implementing CC_DET_SEQ=3 when the connection check result is dual." " To: "Figure 145B-11 illustrates a PSE implementing CC_DET_SEQ=3 when the connection
Proposed Response Response Status Z	check result is dual and class_4PID_mult_events_sec is FALSE."
REJECT.	Proposed Response Response Status Z
This comment was WITH IDD AWAI by the commentar	REJECT.
This comment was WITHDRAWN by the commenter.	This comment was WITHDRAWN by the commenter.

Pa **284** Li **34**

Cl 145B SC 145B.1.4 Darshan, Yair	P 285	L 51	# r01-480	<i>Cl</i> 145C SC 145C.1 Darshan, Yair	P 287	L 28	# r01-481
<i>Comment Type</i> T Figure 145B-14 to cha	Comment Status A nge Tice2 and Tice3 to TCEV	1	Annex	Comment Type E Figure 145C-1. It is 25.5	Comment Status A W and not 25 W.		Annex
S <i>uggestedRemedy</i> Figure 145B-14 to cha	nge Tice2 and Tice3 to TCEV	/		SuggestedRemedy Change the load to 25.5	W.		
Response ACCEPT IN PRINCIPI	Response Status C LE.			Response ACCEPT IN PRINCIPLE	Response Status C		
change Tice2 and Tice	e3 to TCEV in all figures in An	nex 145B.		change to 25.5W			
C/ 145C SC 145C.1 Jones, Chad	P 287 Cisco System	L1	# <u>r01-42</u>	This resolution is identica	al to comment #39.		
Comment Type E	Comment Status A d with the file 94817600003-A		Pres: Jones1 arkup.docx attached ***	Cl 145C SC 145C.1 Stewart, Heath	P 287 Analog Devid	L 29 ces Inc.	# r01-361
				Comment Type E	Comment Status A		Editorial
	ntains many editorial errors.			A Class 4 PD is correct of 1 and 145C-2 show 25 W	lescribed in the adjancent	text as drawing 2	25.5W but Figure 145C-
SuggestedRemedy see the attached Anne adoption.	ex_145C_markup.docx for edi	torial correction	s, submitted for	SuggestedRemedy Change 25W to 25.5W			
Response ACCEPT IN PRINCIPL	Response Status C LE.			Response ACCEPT IN PRINCIPLE	Response Status C		
adopt changes shown	in http://www.ieee802.org/3/b	ot/public/nov17/	cjones_01_0117_final.pdf	change to 25.5W			
[Editor's note added af	fter comment resolution comp	oleted:		This resolution is identica	al to comment #39.		
	ile name. The file used is g/3/bt/public/nov17/cjones_01	_1117_final.pdf]	C/ 145C SC 145C.1 Jones, Chad	P 288 Cisco Syster	L 8 ms, Inc.	# r01-40
C/ 145C SC 145C.1 Jones, Chad	P 287 Cisco System	L 28 is, Inc.	# r01-39	Comment Type ER Pl=25W. Should be 25.5 ¹	Comment Status A W		Annex
Comment Type ER Pl=25W. Should be 25	Comment Status A 5.5W		Annex	SuggestedRemedy change to 25.5W			
SuggestedRemedy				Response ACCEPT.	Response Status C		
change to 25.5W							

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

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Li 8

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C/ 145C SC 145C.1 Darshan, Yair	P 288	L 8	# r01-482	C/ 145C SC 145 Jones, Chad	-	290 o Systems, In	L 1 IIC.	# r01-41
Comment Type E Figure 145C-2. It is 25.5 V SuggestedRemedy	Comment Status A W and not 25 W.		Annex		Comment Statu. Iumn 3. Several entries a ecimal places. This could	re identical be		
Change the load to 25.5 \	w.			column are siginf SuggestedRemedy	cantly different but are ca	aluclated using	g the value in	column 3.
Response ACCEPT IN PRINCIPLE.	Response Status C			change heading t 347 352	o Icond (mA) and change	the values in	the column to):
change to 25.5W				352 358 363				
This resolution is identica	I to comment #40.			369 375				
Cl 145C SC 145C.3 Darshan, Yair	P 289	L 46	# r01-483	375 382 389 397				
Comment Type E Typo. Remove "/m" from SuggestedRemedy	<i>Comment Status</i> A the value "0.3 ohm"		Annex	406 416 427 433				
Remove "/m" from the va	lue "0.3 ohm"			435 Response	Response Status	C		
Response ACCEPT.	Response Status C			ACCEPT.				

Pa **290** Li **1**