C/FM SC FM P1 L 25 # 3	C/FM SC FM P1 L 25 # 430
nslow, Pete Ciena	Zimmerman, George CME Consulting, Aqua
Comment Type E Comment Status D Editor	
The amendment purpose and ballot stage has disappeared.	Fill out the purpose of the amendment and ballot stage, which somehow got deleted fro D2.1 to D2.2
uggestedRemedy Change "This draft is an amendment of IEEE Std 802.3-2015. The purpose of the	SuggestedRemedy
amendment [complete]. Draft D2.2 is prepared for [review/balloting stage]." to:	See comment
"This draft is an amendment of IEEE Std 802.3-2015 as amended by IEEE Std 802.3bw-	Proposed Response Response Status W
2015, IEEE Std 802.3by-2016, IEEE Std 802.3bq-2016, IEEE Std 802.3bp-2016, IEEE Std 802.3br-2016, IEEE Std 802.3br-2016, IEEE Std 802.3br-2016, IEEE Std 802.3br-2017, IEEE Std 802.3br-2018, IEEE Std 802.3br-2016, IEEE Std 802.3br-2016, IEEE Std 802.3br-2016, IEEE Std 802.3br-2018, IEEE Std 802.3br	PROPOSED ACCEPT IN PRINCIPLE.
and IEEE Std 802.3bv-201x. This amendment increases the maximum PD power available	
by utilizing all four pairs in the specified structured wiring plant. Draft D2.2 is prepared for	OBE by 3
Working Group ballot recirculation."	C/FM SCFM P1 L29 # 4
roposed Response Response Status W	Anslow, Pete Ciena
PROPOSED ACCEPT.	_ Comment Type E Comment Status X
/FM SC FM P1 L 25 # 429	The encounter the second stability is the free free file should be 0040
F F L Z H $\frac{429}{2}$	The copyright_year variable in the frontmatter file should be 2016
	SuggestedRemedy
seboodt, Lennart Philips	SuggestedRemedy
Seboodt, Lennart Philips Comment Type ER Comment Status D Editors "This draft is an amendment of IEEE Std 802.3-2015. The purpose of the amendment	 SuggestedRemedy Set the copyright_year variable in the frontmatter file to the appropriate year (probably 2017).
Seboodt, Lennart Philips Comment Type ER Comment Status D Editor	SuggestedRemedy Set the copyright_year variable in the frontmatter file to the appropriate year (probably 2017). (Remember to change the copyright_year variable in the other files to 2017 also.)
seboodt, Lennart Philips <i>comment Type</i> ER <i>Comment Status</i> D <i>Editori</i> "This draft is an amendment of IEEE Std 802.3-2015. The purpose of the amendment	 SuggestedRemedy Set the copyright_year variable in the frontmatter file to the appropriate year (probably 2017).
Seboott, Lennart Philips Comment Type ER Comment Status D Editor "This draft is an amendment of IEEE Std 802.3-2015. The purpose of the amendment [complete]. Draft D2.2 is prepared for [review/balloting stage]." A new frontmatter template was used for D2.2, I missed this fields when inserting it.	SuggestedRemedy Set the copyright_year variable in the frontmatter file to the appropriate year (probably 2017). (Remember to change the copyright_year variable in the other files to 2017 also.)
seboodt, Lennart Philips comment Type ER Comment Status D Editor "This draft is an amendment of IEEE Std 802.3-2015. The purpose of the amendment [complete]. Draft D2.2 is prepared for [review/balloting stage]." A new frontmatter template was used for D2.2, I missed this fields when inserting it.	SuggestedRemedy Set the copyright_year variable in the frontmatter file to the appropriate year (probably 2017). (Remember to change the copyright_year variable in the other files to 2017 also.)
seboodt, Lennart Philips comment Type ER Comment Status D Editors "This draft is an amendment of IEEE Std 802.3-2015. The purpose of the amendment [complete]. Draft D2.2 is prepared for [review/balloting stage]." A new frontmatter template was used for D2.2, I missed this fields when inserting it. Editors uggestedRemedy Replace by: "This draft is an amendment of IEEE Std 802.3-2015. This amendment increases the	SuggestedRemedy Set the copyright_year variable in the frontmatter file to the appropriate year (probably 2017). (Remember to change the copyright_year variable in the other files to 2017 also.) Proposed Response Response Status
Seeboodt, Lennart Philips Comment Type ER Comment Status D Editors "This draft is an amendment of IEEE Std 802.3-2015. The purpose of the amendment [complete]. Draft D2.2 is prepared for [review/balloting stage]." A new frontmatter template was used for D2.2, I missed this fields when inserting it. EuggestedRemedy Replace by: "This draft is an amendment of IEEE Std 802.3-2015. This amendment increases the maximum PD power available by utilizing all four pairs in the specified structured wiring	SuggestedRemedy Set the copyright_year variable in the frontmatter file to the appropriate year (probably 2017). (Remember to change the copyright_year variable in the other files to 2017 also.) Proposed Response Response Status C/ FM SC FM P 8 L 1 # 5
Seboodt, Lennart Philips Comment Type ER Comment Status D Editors "This draft is an amendment of IEEE Std 802.3-2015. The purpose of the amendment [complete]. Draft D2.2 is prepared for [review/balloting stage]." A new frontmatter template was used for D2.2, I missed this fields when inserting it. SuggestedRemedy Replace by: "This draft is an amendment of IEEE Std 802.3-2015. This amendment increases the maximum PD power available by utilizing all four pairs in the specified structured wiring plant. Draft <draftnr> is prepared for Working Group ballot recirculation."</draftnr>	SuggestedRemedy Set the copyright_year variable in the frontmatter file to the appropriate year (probably 2017). (Remember to change the copyright_year variable in the other files to 2017 also.) Proposed Response Response Status C/ FM SC FM P 8 L 1 # Anslow, Pete Ciena 5
seboodt, Lennart Philips comment Type ER Comment Status D Editore "This draft is an amendment of IEEE Std 802.3-2015. The purpose of the amendment [complete]. Draft D2.2 is prepared for [review/balloting stage]." A new frontmatter template was used for D2.2, I missed this fields when inserting it. uggestedRemedy Replace by: "This draft is an amendment of IEEE Std 802.3-2015. This amendment increases the maximum PD power available by utilizing all four pairs in the specified structured wiring plant. Draft <draftnr> is prepared for Working Group ballot recirculation." Proposed Response Response Status W</draftnr>	SuggestedRemedy Set the copyright_year variable in the frontmatter file to the appropriate year (probably 2017). (Remember to change the copyright_year variable in the other files to 2017 also.) Proposed Response Response Status C/ FM SC FM P 8 L 1 # Anslow, Pete Ciena Comment Type E Comment Status X The members of the Working Group ballot pool beyond "Kent Lusted" have disappeare
seboodt, Lennart Philips comment Type ER Comment Status D Editors "This draft is an amendment of IEEE Std 802.3-2015. The purpose of the amendment [complete]. Draft D2.2 is prepared for [review/balloting stage]." A new frontmatter template was used for D2.2, I missed this fields when inserting it. SuggestedRemedy Replace by: "This draft is an amendment of IEEE Std 802.3-2015. This amendment increases the maximum PD power available by utilizing all four pairs in the specified structured wiring plant. Draft <draftnr> is prepared for Working Group ballot recirculation." Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT IN PRINCIPLE.</draftnr>	SuggestedRemedy Set the copyright_year variable in the frontmatter file to the appropriate year (probably 2017). (Remember to change the copyright_year variable in the other files to 2017 also.) Proposed Response Response Status C/ FM SC FM P 8 L 1 # Anslow, Pete Ciena Comment Type E Comment Status X
'seboodt, Lennart Philips Comment Type ER Comment Status D Editors "This draft is an amendment of IEEE Std 802.3-2015. The purpose of the amendment [complete]. Draft D2.2 is prepared for [review/balloting stage]." A new frontmatter template was used for D2.2, I missed this fields when inserting it. SuggestedRemedy Replace by: "This draft is an amendment of IEEE Std 802.3-2015. This amendment increases the maximum PD power available by utilizing all four pairs in the specified structured wiring plant. Draft <draftnr> is prepared for Working Group ballot recirculation." Proposed Response Response Status W</draftnr>	SuggestedRemedy Set the copyright_year variable in the frontmatter file to the appropriate year (probably 2017). (Remember to change the copyright_year variable in the other files to 2017 also.) Proposed Response Response Status C/ FM SC FM P 8 L 1 # Anslow, Pete Ciena Comment Type E Comment Status X The members of the Working Group ballot pool beyond "Kent Lusted" have disappeare SuggestedRemedy

Pa **8** Li **1**

C/FM SC FM	P 10	L 5	# 431	C/ FM	SC FM	P 21	L 42	# 433
Zimmerman, George	CME Consult	ing, Aqua		Zimmerm	an, George	CME Consul	ting, Aqua	
Comment Type E	Comment Status X			Comment	Type ER	Comment Status X		
	e - (doesn't actually need to ma mendment title at the front cov		ut is better if it does),	the st	andard editor's	ding all PoE matter in the ame note should be amended to no	ote this unusual p	practice. (note - I
SuggestedRemedy						just want to make sponsor ba	llot pool member	s aware of it)
See comment				Suggeste	-	and a sector for a sector data as the formation		
Proposed Response	Response Status O			chanç functi	es to existing Il onality. Becaus	or's note box under existing on EEE Std 802.3-2015 text relat se of the extensive relationship EE Std 802.3-2015 relating to	ed to DTE Power	r via MDI to add new in 802.3bt to the
C/FM SC FM	P 12	L 7	# 432	unmo	dified text of IE	EE Std 802.3-2015 related to	DTE Power via N	IDI is included in (the
Zimmerman, George	CME Consult	ing, Aqua			of) this amendm	nent."		
Comment Type E	Comment Status X			Proposed	Response	Response Status 0		
802.3bu was approve 802.3bu-2016.	ed at the December 2016 IEEE	-SA meeting, m	aking it IEEE Std					
SuggestedRemedy				C/ 1	SC 1.3	P 22	L3	# 434
Change 802.3bu-20x	x to 802.3bu-2016, change edi	ting instruction r	eference on pg 23 line		an, George	CME Consul	iting, Aqua	
1 as well.				Comment	51	Comment Status X		
Proposed Response	Response Status O				's note is no lor	nger relevant		
				Suggeste				
FM SC FM	P 12	L 22	# 6		e Editor's note			
Inslow, Pete	Ciena			Proposed	Response	Response Status 0		
Comment Type E	Comment Status X							
determines that it is I	Iment will only be Amendment ikely to be the first amendment s I am aware, the Working Gro	approved after	Amendment 9					
SuggestedRemedy								
Unless the Working (Group Chair has announced the ent approved after Amendment							
Proposed Response	Response Status O							
•								

Pa **22** Li **3**

C/ 1 SC 1.3	P 22	L 10	# 7	C/ 1 SC 1.4	P 22	L 33	# 26
Anslow, Pete	Ciena			Beia, Christian	STMicroelec	tronics	
Comment Type T C	omment Status X			Comment Type TR	Comment Status X		
There are two places where The note to Table 33-1, whi unbalance, see TIA TSB-18 In text two paragraphs below Edition 2 for additional infor The table note is informative also. Consequently, it is inapprop in addition to adding it to the SuggestedRemedy Remove TIA TSB-184-A fro In the two places in Clause to the bibliography entry.	the draft refers to "TIA" ch says: "For additional 4-A and ISO/IEC TS 29 w which says "See TIA T mation on pair-to-pair re e (see IEEE style manual riate to add TIA TSB-18 e Annex A bibliography. m 1.3.	information on T 125 Edition 2." SB-184-A and IS sistance unbalar al) and the later to 4-A to the list of	SO/IEC TS 29125 Ice." ext seems informative normative references	TDL 2p1 #173 - Re The definition of cha definition from IEEE 1.4.134 channel: In transmitted on the b A new definition is r	view use of word channel in cla annel in 1.4.134 is far away from Std 802.3-2015: 10BROAD36, a band of freque proadband medium. (See IEEE needed to make it unambiguous ay be used to replace "channe	m the meaning in encies dedicated f Std 802.3, Claus s.	to a certain service se 11.)
2/ 1 SC 1.4 chindler, Fred	P 22 Seen Simply,	<i>L</i> 22 Cisco, T	# 239	C/ 1 SC 1.4.41 Anslow, Pete	Ciena	L 39	# 8
Comment Type TR C The existing text, "IEEE 802.3 Power over Ett one PD that provides power acro 33)." should be improvide to SuggestedRemedy Replace the referenced sen "IEEE 802.3 Power over Ett which may source power, an PD, which may consume po 802.3, Clause 33)."	omment Status X nernet (IEEE 802.3 PoE) oss balanced twisted-pa o avoid uncertainty as to tence with, nernet (IEEE 802.3 PoE) nd one): A system cons ir cabling. (See II which device is j): A system cons	EEE Std 802.3, Clause providing the power. isting of one PSE,	says: "Replace is used to or equation and rep Consequently the re SuggestedRemedy	Comment Status X diting instructions in the IEEE make changes in figures or eq lacing it with a new one." eplace editing instruction should ge" editing instruction and show Response Status O	uations by remov	ving the existing figure text.
Proposed Response Re	esponse Status O						

Pa **22** Li **39**

C/ 1 SC 1.4.415 P 22 L	41 # 436	C/ 1 SC 1.4.416 P 22 L 44 # 437
Zimmerman, George CME Consulting, Aq	Jua	Zimmerman, George CME Consulting, Aqua
Comment Type TR Comment Status X		Comment Type TR Comment Status X
Type 1 and Type 2 PDs are not adequately differentiated i definitions, a PD may be both Type 1 and Type 3, or Type intent was that there could be Type 3 PDs which are 2 pai SuggestedRemedy	2 and Type 3. I believe the	Type 1 and Type 2 PSE types are not adequately differentiated from 3 and 4. A PSE which supports 2-pair power only up to Class 3 or 4, but also supports short MPS will be both type 3 and type 1 (or 2 if it supports class 4). A PSE which supports 2-pair power a well as 4-pair, and the other type 4 features and only supports up to class 3 or 4 could be
Either: change Type 1 and Type 2 PD definitions by insert		both type 4 and type 1 or 2.
"and is not a Type 3 PD", after "classification" (or "Data Lin Type 2 PD definition)	nk Layer Classification" in the	SuggestedRemedy Either: (option a) change Type 3 and Type 4 definitions from "supports up to Class" to
Proposed Response Response Status O		"supports up to at least Class", or (option b) change type 1 and type 2 definitions by inserting at the end of the sentence, "and is not a type 3 or type 4 PSE."
		Proposed Response Response Status O
C/1 SC 1.4 P 22 L	44 # 240	
chindler, Fred Seen Simply, Cisco,	, т	C/1 SC 1.4.418ac P 23 L 8 # 439
Comment Type ER Comment Status X		C/ 1 SC 1.4.418ac P 23 L 8 # [439] Zimmerman, George CME Consulting, Aqua
The existing sentence can be improved. "Type 1 PSE: A PSE that supports Class 0 to Class 3 pow over 2-pair. (See IEEE 802.3, Clause 33)." Note that "2-pair" was replaced by "2-pairs". SuggestedRemedy Replace the referenced sentence with,	ver levels and provides power	Comment Type TR Comment Status X Related to comment on 1.4.416: Intent was that a Type 3 PSE could ONLY support a maximum of Class 6 power level - definition doesn't say this, because of the change in language from the way Type 1 and Type 2 were written, a PSE might support up to Class 6, but more than class 6 would be allowed.
"Type 1 PSE: A PSE that supports Class 0 to Class 3 pow	ver levels and provides power	SuggestedRemedy
over 2-pairs. (See IEEE 802.3, Clause 33)." The editor is authorized to use "two pairs" if this is preferre	ed.	Change Type 3 PSE definition as similarly to say "up to at most Class 6 power levels".
Proposed Response Response Status O		Proposed Response Response Status O
		C/ 1 SC 1.4.418ad P 23 L 15 # 438
		Zimmerman, George CME Consulting, Aqua
		Comment Type TR Comment Status X Related to comment on 1.4.416: A PSE under these definitions which supports only to Class 6, short MPS and 4-pair power would be be both type 3 and type 4.
		SuggestedRemedy
		Change "up to Class 9 power loyale" to "up to at least Class 7 and at most Class 9 power

Change "up to Class 8 power levels" to "up to at least Class 7 and at most Class 8 power levels".

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12/19/2016 11:30:13 A

Proposed Response Response Status **0**

CI 25 SC 25	P	25	L 1	# 9	C/ 30 S	C 30.9.1.1	.4a	P 30	L 15	# 146
nslow, Pete	Cier	na			Law, David			HPE		
omment Type E	Comment Status	s X			Comment Type	e TR	Comment	Status X		
clauses in the draf clause) or else if tl	ing from the compare ve ft in the compare version here are few changes to	n (even if th	nere were no c	hanges to a particular	Access Co TLVs shall	ntrol Conne include as	ectivity Discove	ry' states that MIB extension	'Each set of Orga s and the associa	3 'Station and Media anizationally Specific ated TLV selection
uggestedRemedy					-					
	s in the compare version		low only chang	ed pages.						12.2 'LLDP Local object and in the
Proposed Response	Response Status	6 O			subclause oLldpXdot	30.12.3 'LL 3RemSyste	DP Remote Sy msGroup object	stem Group m t for each of th	anaged object cla ne TLV fields sinc	ass' ce these managed
2/ 30 SC 30 Darshan, Yair		26 osemi	L 1	# 78	however is while some	to support of the con	management o tent many be th	f the PSE regate the same as the	ardless of the pre e LLDP Local Sys	naged object class' esence of LLDP, hen stem Group manage
Comment Type TR All new TLVs need	Comment Status d to be added to this sec		include Autocla	ass, Measurements and	object clas seem to ap		onal to LLDP m	ianagement, a	and therefore the s	statement does not
new dual-signature	e material.						in attribute need			h la sta ta suma sut de
uggestedRemedy										bjects to support the a need to add the ne
			novt droft							
If not resolved yet	for D2.2, add it to the TI	DL for the I	next urait.		aPSEPow	erPairsx att	ribute to the oP	SE object. In a	addition the aPSE	EPowerPairsx attribu
•	for D2.2, add it to the TI Response Status		next uran.		is duplicati	erPairsx att ve of subcla d to its enu	ause 30.9.1.1.4	SE object. In a aPSEPowerP	addition the aPSE Pairs which has ha	EPowerPairsx attribu ad the enumeration
If not resolved yet Proposed Response			next dran.		is duplicati	ve of subcla d to its enu	ause 30.9.1.1.4	SE object. In a aPSEPowerP	addition the aPSE Pairs which has ha	EPowerPairsx attribu ad the enumeration
Proposed Response	Response Status		L 14	# 10	is duplicati 'both' adde SuggestedRen	ve of subcla d to its enu nedy	ause 30.9.1.1.4	aPSEPowerP	addition the aPSE 'airs which has ha	EPowerPairsx attribuad the enumeration
Proposed Response	Response Status	5 O 30		# [10	is duplicati 'both' adde SuggestedRen	ve of subcla d to its enu <i>nedy</i> at subclaus	ause 30.9.1.1.4 imerations.	aPSEPowerP	addition the aPSE	EPowerPairsx attribuad the enumeration
Proposed Response	Response Status	5 O 30 na		# [10	is duplicati 'both' adde <i>SuggestedRen</i> Suggest th	ve of subcla d to its enu <i>nedy</i> at subclaus	ause 30.9.1.1.4 imerations. se 30.9.1.1.4a is	aPSEPowerP	addition the aPSE Pairs which has ha	EPowerPairsx attribuad the enumeration
Proposed Response 2/ 30 SC 30.9. Inslow, Pete Comment Type E The newly inserted	Response Status .1.1.4a P Cier Comment Status d editing instruction "Inse	30 na s X ert 30.9.1.1	L 14	" comes part way	is duplicati 'both' adde SuggestedRen Suggest th Proposed Res	ve of subcla d to its enu nedy at subclaus ponse	ause 30.9.1.1.4 imerations. se 30.9.1.1.4a is	aPSEPowerP s deleted. Status O	airs which has ha	ad the enumeration
Proposed Response 2/ 30 SC 30.9. Anslow, Pete Comment Type E The newly inserted through the chang	Response Status .1.1.4a P Cier Comment Status	s O 30 na s X ert 30.9.1.1 ng instructi	L 14	" comes part way	is duplicati 'both' adde SuggestedRen Suggest th Proposed Res	ve of subcla d to its enu <i>nedy</i> at subclaus	ause 30.9.1.1.4 imerations. se 30.9.1.1.4a is	aPSEPowerP	Addition the aPSE Pairs which has ha	EPowerPairsx attribu ad the enumeration # 147
Cl 30 SC 30.9. Anslow, Pete Comment Type E The newly inserted through the chang 30.9.1.1.11 as follow	Response Status .1.1.4a P Cier Comment Status d editing instruction "Inse ges for the previous editir	s O 30 na s X ert 30.9.1.1 ng instructi	L 14	" comes part way	is duplicati 'both' adde SuggestedRen Suggest th Proposed Res Cl 30 S	ve of subcla d to its enu nedy at subclaus ponse C 30.9.2	ause 30.9.1.1.4 imerations. se 30.9.1.1.4a is	aPSEPowerP s deleted. <i>Status</i> 0 <i>P</i> 33 HPE	airs which has ha	ad the enumeration
Proposed Response 27 30 SC 30.9. Anslow, Pete Comment Type E The newly inserted through the chang 30.9.1.1.11 as follow Suggested Remedy Change the earlier and add a subsequent	Response Status .1.1.4a P Cier Comment Status d editing instruction "Inse ges for the previous editir	30 a s X ert 30.9.1.1 ng instructi Change 30.	L 14 1.4a as follows ion "Change 30 9.1.1.2 through	" comes part way).9.1.1.2 through n 30.9.1.1.4 as follows:"	is duplicati 'both' adde SuggestedRen Suggest th Proposed Res C/ 30 S Law, David Comment Type This mana	ve of subcla d to its enu nedy at subclaus ponse C 30.9.2 C TR ged object	ause 30.9.1.1.4 imerations. se 30.9.1.1.4a is <i>Response S</i>	aPSEPowerP s deleted. Status 0 P 33 HPE Status X as it has no att	Pairs which has ha	ad the enumeration
Proposed Response 2/ 30 SC 30.9. Inslow, Pete Comment Type E The newly inserted through the chang 30.9.1.1.11 as follow SuggestedRemedy Change the earlier and add a subsequent follows:"	Response Status .1.1.4a P Cien <i>Comment Status</i> d editing instruction "Inse ges for the previous editir ows:" This is confusing. r editing instruction to "C juent editing instruction "	30 30 a s X ert 30.9.1.1 ng instructi Change 30. Change 30.	L 14 1.4a as follows ion "Change 30 9.1.1.2 through	" comes part way).9.1.1.2 through n 30.9.1.1.4 as follows:"	is duplicati 'both' adde SuggestedRen Suggest th Proposed Res C/ 30 S Law, David Comment Type This mana	ve of subcla d to its enu nedy at subclaus ponse C 30.9.2 e TR ged object e monitorin	ause 30.9.1.1.4 imerations. se 30.9.1.1.4a is <i>Response S</i> <i>Comment</i> class is empty a	aPSEPowerP s deleted. Status 0 P 33 HPE Status X as it has no att	Pairs which has ha	ad the enumeration # 147
Proposed Response Cl 30 SC 30.9. Anslow, Pete Comment Type E The newly inserted through the chang 30.9.1.1.11 as follow Suggested Remedy Change the earlier and add a subsequent	Response Status 1.1.14a <i>P</i> Cien <i>Comment Status</i> d editing instruction "Inse ges for the previous editir ows:" This is confusing. r editing instruction to "C	30 30 a s X ert 30.9.1.1 ng instructi Change 30. Change 30.	L 14 1.4a as follows ion "Change 30 9.1.1.2 through	" comes part way).9.1.1.2 through n 30.9.1.1.4 as follows:"	is duplicati 'both' adde SuggestedRen Suggest th Proposed Res C/ 30 S Law, David Comment Type This mana relate to th SuggestedRen Deleted su	ve of subcla d to its enu nedy at subclaus ponse C 30.9.2 e TR ged object e monitorin nedy bclause 30 able 30–4 ⁴	ause 30.9.1.1.4 imerations. se 30.9.1.1.4a is <i>Response S</i> <i>Comment</i> - class is empty a g or control of a .9.2 and it subc DTE Power via	aPSEPowerP s deleted. Status O P 33 HPE Status X as it has no att a PD. lauses, as we	Pairs which has ha	ad the enumeration # 147

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	Pa 33	Page 5 of 101
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	Li 25	12/19/2016 11:30:13 A
SORT ORDER: Page, Line		

C/ 30	SC 30.12.2.1.8	P 36	L 38	#	148	
Law, David		HPE				-

Comment Type TR Comment Status X

The reference to the pethPsePortPowerPairsControlAbility object in the behaviour text of the aLldpXdot3LocPowerPairControlable attribute is somewhat indirect since the pethPsePortPowerPairsControlAbility object in RFC 3621 (which is now in strikeout I assume due to its deprecation by IEEE Std 802.3.1-2013) and in IEEE Std 802.3.1-2013, both reference back to IEEE Std 802.3, subclause 30.9.1.1.3

aPSEPowerPairsControlAbility. Rather than reference an item in an external standard, that then references back in to a subclause of IEEE Std 802.3, suggest that a direct reference to the subclause in IEEE Std 802.3 be provided. The same is also true for the reference to the pethPsePortPowerPairs object in the behaviour of the aLldpXdot3LocPowerPairs attribute (see 30.12.2.1.8) as well as the similar references in the behaviour of the equivalent LLDP Remote System Group managed object class attributes aLldpXdot3RemPowerPairs (see 30.12.3.1.8) and aLldpXdot3RemPowerPairs (see 30.12.3.1.9).

In addition the objects pethPsePortPowerPairsControlAbility and pethPsePortPowerPairs are part of the pethPsePortEntry object, a set of objects '... that display and control the power characteristics of a power Ethernet PSE port ...' (see IEEE Std 802.3.1-2013 subclause 8.5) and hence only exist for a PSEs. This makes sense as these attributes relate to which PSE Pinout Alternative is used for PD detection and power (see 33.2.4), however based on this there is no behaviour defined for the

aLldpXdot3LocPowerPairControlable and aLldpXdot3LocPowerPairs attributes in an instance of the LLDP Local System Group managed object class in a PD, or for aLldpXdot3RemPowerPairControlable and aLldpXdot3RemPowerPairs in an instance of the LLDP Remote System Group managed object class in a PSE.

Further, the behaviour text of the LLDP Remote System Group managed object class attribute aLldpXdot3RemPowerPairControlable doesn't seem entirely clear. It states that the attribute is '... derived from the value of ...' pethPsePortPowerPairsControlAbility object. What isn't clear from this is, as a remote attribute, it is the value of the aLldpXdot3LocPowerPairControlable attribute, as communicated across the link by LLPD, and as such is derived from the value of the pethPsePortPowerPairsControlAbility object on the remote, not local, system.

Finally, since the 'PSE Power pair' field in the Power Via MDI TLV that support the aLldpXdot3LocPowerPairs and aLldpXdot3RemPowerPairs attributes (see Table 79–9 and 79-10) is not being expanded, and instead the 'PSE power pairsx' bits are being added (see Table 79–6a), text similar to that in subclause 79.3.2.2 'PSE power pair' that states 'Either pairset may be indicated when furnishing power on both pairsets, as that condition is communicated by the PSE power status value field defined in 79.3.2.6a.' needs to be added to the aLldpXdot3LocPowerPairs and aLldpXdot3RemPowerPairs behaviours. In addition, subclause 30.9.1.1.4 aPSEPowerPairs has had a 'both' enumeration added to it, hence aLldpXdot3LocPowerPairs can no longer 'contain' aPSEPowerPairs but instead will have to be 'derived' from aPSEPowerPairs and the 'appropriate syntax' of aLldpXdot3LocPowerPairs and aLldpXdot3RemPowerPairs can no longer be the same as aPSEPowerPairs.

Note that while the text in subclause 79.3.2.2 states that furnishing power on both pairsets can be communicated by PSE power pairsx bits (see 79.3.2.6a), a legacy PD that implements DLL classification will not support these additional bits. This could lead to the situation where such a PD is reporting in the aLldpXdot3RemPowerPairs attribute that it is being powered on PSE Pinout Alternative B when in fact it is being powered by PSE Pinout Alternative A.

SuggestedRemedy

Suggest that:

[1] Subclause 30.12.2.1.8 aLldpXdot3LocPowerPairControlable 'behaviour defined as' text be changed to read 'A read-only Boolean value used to indicate the ability to control which PSE Pinout Alternative (see 33.2.4) is used for PD detection and power. For a PSE this attribute contains the value of the aPSEPowerPairsControlAbility attribute (see 30.9.1.1.3), for a PD the contents of this attribute is undefined.;'.

[2] Subclause 30.12.2.1.9 aLldpXdot3LocPowerPairs 'appropriate syntax' be changed to read:

An ENUMERATED VALUE that has one of the following entries: signal PSE Pinout Alternative A spare PSE Pinout Alternative B

[3] Subclause 30.12.2.1.9 aLldpXdot3LocPowerPairs 'behaviour defined as' text be changed to read 'A read-only value that identifies the PSE Pinout Alternative (see 33.2.4) in use for detecting and supplying power to the PD. For a PSE this attribute contains a value derived from the aPSEPowerPairs attribute (see 30.9.1.1.4), for a PD the contents of this attribute is undefined. A Type 3 or Type 4 PSE detecting or supplying power on both PSE Pinout Alternatives can return either PSE Pinout Alternative as this configuration is communicated through the aLldpXdot3LocPowerPairsX attribute. A Type 3 or Type 4 PSE supplying power on only one PSE Pinout Alternative shall return that PSE Pinout Alternative;'.

[4] Subclause 30.12.3.1.8 aLldpXdot3RemPowerPairControlable 'behaviour defined as' text be changed to read 'A read-only Boolean value used to indicate the ability to control which PSE Pinout Alternative (see 33.2.4) is used for PD detection and power on the given port on the remote system. For a PD this attribute contains the value of the aPSEPowerPairsControlAbility attribute (see 30.9.1.1.4) on the given port on the remote system, for a PSE the contents of this attribute is undefined.,'.

[5] Subclause 30.12.3.1.9 aLldpXdot3RemPowerPairs 'appropriate syntax' be changed to read:

An ENUMERATED VALUE that has one of the following entries: signal PSE Pinout Alternative A spare PSE Pinout Alternative B

[6] Subclause 30.12.3.1.9 aLldpXdot3RemPowerPairs 'behaviour defined as' text be changed to read 'A read-only value that identifies the supported PSE Pinout Alternative (see 33.2.4) in use for supplying power to the PD on the given port on the remote system. For a PD this attribute contains a value derived from the aPSEPowerPairs attribute (see

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	38	12/19/2016 11:30:13 A

30.9.1.1.3) on the given port on the remote system, for a PSE the contents of this attribute is undefined. A Type 3 or Type 4 PSE detecting or supplying power on both PSE Pinout Alternatives can return either PSE Pinout. If the aLldpXdot3RemPowerPairsX attribute is available, it will report this configuation. A Type 3 or Type 4 PSE supplying power on only one PSE Pinout Alternative will return that PSE Pinout Alternative;'.

Proposed Response Response Status O

Cl 30	SC 30.12.2.1.8	P 36	L 46	# 11
Anslow, F	Pete	Ciena		

Comment Type E Comment Status X

There is strikethrough text in 30.12.2.1.8, 30.12.2.1.9, 30.12.2.1.10, 30.12.3.1.8, 30.12.3.1.9, and 30.12.3.1.10 without any corresponding editing instructions. Also, despite the fact that FrameMaker does not show font changes as a change, this should have been highlighted in the compare document manually. e.g. by showing "defined in IETF RFC 3621" in red strikethrough followed by "defined in IETF RFC 3621" again in blue strikethrough and underline.

SuggestedRemedy

Add editing instructions for the changes in 30.12.2.1.8, 30.12.2.1.9, 30.12.2.1.10, 30.12.3.1.8, 30.12.3.1.9, and 30.12.3.1.10.

Proposed Response Response Status **O**

C/ 30	SC 30.12.2.1	9 <i>P</i> 3 HPE	7 L 2	# 149	
Law, David		npe			
Comment 7 Typo.	Гуре Е	Comment Status	x		
Suggestedi Sugges		ly the value' shou	Ild be changed to rea	d 'A read-only value'	
Proposed F	Response	Response Status	0		

CI 30	SC 30.12.2.1.10	P 37	L 5	#	150
Law, David		HPE			

Comment Type TR Comment Status X

The reference to the pethPsePortPowerClassifications object in the behaviour text of the aLldpXdot3LocPowerClass attribute is somewhat indirect since the pethPsePortPowerClassifications object in RFC 3621 (which is now in strikeout I assume due to its deprecation by IEEE Std 802.3.1-2013) and in IEEE Std 802.3.1-2013, both reference back to IEEE Std 802.3, subclause 30.9.1.1.6 aPSEPowerClassification. Rather than reference an item in an external standard, that then references back in to a subclause of IEEE Std 802.3, suggest that a direct reference to the subclause in IEEE Std 802.3 be provided. The same is also true of the aLldpXdot3RemPowerClass attribute.

In addition the pethPsePortPowerClassifications object is part of the pethPsePortEntry object, a set of objects '... that display and control the power characteristics of a power Ethernet PSE port ...' (see IEEE Std 802.3.1-2013 subclause 8.5) and hence only exist for a PSEs. Further the behaviour of aPSEPowerClassification, referenced by pethPsePortPowerClassifications, states 'A read-only value that indicates the PD Class of a detected PD as specified in 33.2.7.1.' As such there is no behaviour defined for the aLldpXdot3LocPowerClass attribute in an instance of the LLDP Local System Group managed object class in a PD, or for aLldpXdot3RemPowerClass in a PSE.

Finally, since the 'Power class' field in the Power Via MDI TLV that support the aLldpXdot3LocPowerClass and aLldpXdot3RemPowerClass attributes (see Table 79–9 and 79-10) is not being expanded, and instead the 'Power class' bits are being added (see Table 79–6a), text needs to be added to state that the aLldpXdot3LocPowerClass and aLldpXdot3RemPowerClass attributes only support class 0 through 4 enumerations and that aLldpXdot3LocPowerClass and aLldpXdot3RemPowerClass, if implemented, communicate class 5 and above. In addition, since subclause 30.9.1.1.6 aPSEPowerClassification has had enumeration for class 5 through 8 added to it, hence aLldpXdot3LocPowerClass and aLldpXdot3RemPowerClass can no longer 'contain' aPSEPowerClassification but instead will have to be 'derived' from aPSEPowerClassification and the 'appropriate syntax' of aLldpXdot3LocPowerClass and aLldpXdot3RemPowerClass ification.

SuggestedRemedy

Suggest that:

[1] Subclause 30.12.2.1.10 aLldpXdot3LocPowerClass 'appropriate syntax' be changed to read:

An ENUMERATED VALUE that has one of the following entries:

class0 Class 0 PD class1 Class 1 PD class2 Class 2 PD class3 Class 3 PD

class4 Class 4 PD

[2] Subclause 30.12.2.1.10 aLldpXdot3LocPowerClass 'behaviour defined as' text be

TYPE: TR/technical required ER/editorial required GR/gener	al required T/technical E/editorial G/general	Pa 37	Page 7 of 101
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	Li 5	12/19/2016 11:30:13 A
SORT ORDER: Page, Line			

changed to read 'A read-only value that indicates the PD Class of the detected PD as specified in 33.2.7.1. For a PSE this attribute contains a value derived from the aPSEPowerClassification attribute (see 30.9.1.1.6), for a PD the contents of this attribute is undefined. This attribute shall return an enumeration of "class4" for a PD of Class 4 or higher as such PD Classes are identified through the aLldpXdot3LocPowerClassx attribute.;'.

[3] Subclause 30.12.3.1.10 aLldpXdot3RemPowerClass 'appropriate syntax' be changed to read:

An ENUMERATED VALUE that has one of the following entries:

class0Class 0 PDclass1Class 1 PDclass2Class 2 PDclass3Class 3 PDclass4Class 4 PD

[4] Subclause 30.12.3.1.10 aLldpXdot3RemPowerClass 'behaviour defined as' text be changed to read 'A read-only value that identifies the PD Class of the detected PD as specified in 33.2.7.1. on the given port on the remote system. For a PD this attribute contains a value derived from the aPSEPowerClassification attribute (see 30.9.1.1.6) on the given port on the remote system, for a PSE the contents of this attribute is undefined. This attribute will return an enumeration of "class4" for a PD of Class 4 or higher as such PD Classes are identified through the aLldpXdot3RemPowerClass attribute.;'.

Proposed Response Response Status **O**

C/ 30	SC 30.12.2.1.10	P 3	7 L 12	# 1	51
Law, David	d	HPE		•	
Comment Typo.	Type E C	omment Status	x		
Suggested	dRemedy				
Sugge	est that 'A read-only th	e value' shou	ld be changed to rea	ad 'A read-only v	/alue'
Proposed	Response Re	esponse Status	0		

CI 30 SC	30	P 3	7	L 24	#	79
Darshan, Yair		Mirose	emi			
Comment Type	TR	Comment Status	х			
TDL #52 D2. "aLldpXdot3I (See comme	ocPower	Type" There is no valu n D2.0)	ue for Ty	ype 3 or Type 4.		
SuggestedReme	dy					
If not resolve	d yet for I	D2.2, keep it in the TD	L.			
Proposed Respo	nse	Response Status	ο			

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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					5 1					
C/ 30 ₋aw, David	SC 30.12.2.1.14	<i>Р</i> 37 НРЕ	L 24	# 152	C/ 30 Anslow, Pete	SC 30.12.2	2.1.17	P 38 Ciena	<i>L</i> 1	# 12
Comment Typ	pe T Comm	ent Status X			Comment Ty	be E	Comm	ent Status X		
value for The 'powe not been because these add shall set t	D2.3bt draft D2.1 comm Type 3 or Type 4. (See er type' bits in the 'Type extended to support Ty an existing Type 1 or T dition bits. Instead text h this field to Type 2 and 0.1 has been added to th	comment #490 in e/source/priority' fie pe 3 and Type 4 (s ype 2 implementati has been added to an additional field '	D2.0)'. Id defined in sub see page 238, lin ion would not be state that a Type Power typex' def	pclause 79.3.2.4 have the 10 to 13), presumably able to understand to 3 or Type 4 device fined in subclause	says: "Replace or equati Consequ SuggestedRe Change	is used to on and repl ently the re emedy	make change acing it with place editing e" editing ins	es in figures or equ a new one." I instruction should	not be used for	on page 21 of the dra ving the existing figure text. 2.2.1.18 and show the
Subclaus Access C	e 8.6 'Organizationally Control Connectivity Disc	Specific TLVs' of IE covery' states that	EEE Std 802.1AE	3 'Station and Media anizationally Specific	Proposed Re	sponse	Respon	nse Status O		
	all include associated LL nent variables and MIB/				C/ 30.12	SC 30.12.	2.1.17	P 38	L 3	# 275
attributes	for each field, one for t	he local copy and	one for the remo	te. Based on this there	Skinner, Joh	า		Sifos Techno	logies, In	
	dpXdot3RemPowerTyp				Comment Ty	oe TR	Comm	ent Status X		
Power type field and the aLldpXdot3LocPowerTypex and aLldpXdot3RemPowerTypex attribute for the Power typex field. Hence since the 'power type' bits are not being extended to support Type 3 and Type 4 the			No managed objects defined for the Power Via MDI TLV fields "PD requested power value Mode A", "PD requested power value Mode B", "PSE allocated power value Alternative and "PSE allocated power value Alternative B".							
related at	ttributes still only suppo	rt Type 1 or Type 2	2. This however s		SuggestedRe	emedy				
attribute	with a reference to the I	Power typex related	d attributes.					dPowerValueMode	eA,	
NOTE: This comment relates to TDL D2.1 #52.							verValueModeB, verValueModeA, ar	hd		
uggestedRe	emedy							verValueModeB.	,	
Type 2. T	ype 2 will also be indic	ated for Type 3 and	d Type 4. The att		Add cros	s reference	s to these ob	pjects in Table 79-	9 starting at line	26 on page 248.
aLldpXdo	ot3LocPowerTypex, if su	pported, provides	an indication of T	Type 1 through Type 4.'.	Proposed Re	sponse	Respon	nse Status O		

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

Proposed Response

Response Status 0

Pa **38** Li 3

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C/ 30 SC 30.12.2.1.18a		36 #	[‡] 153	CI 33	SC 33.12.2.1	.18c	P 39	L 4	# 302
∟aw, David	HPE			Yseboodt,	Lennart		Philips		
Comment Type TR Commen	nt Status X			Comment	Type TR	Comment	Status X		
The attribute aLldpXdot3LocPSEP Local System Group managed obje	ect class subclause and	therefore I assu	me is intended	The Cl we rem	ause 30 manage noved the corres	ed object aLldp ponding LLDP	Xdot3LocPDM bit.	odeSelection is	no longer needed a
to be part of the oLldpXdot3LocSys both PSEs and PDs the behaviour				Suggested	Remedy				
Suggested Remedy	or this attribute needs to	be described to	i both.	Remov	ve aLldpXdot3Lo	cPDModeSele	ction section a	nd remove the li	ne from Table 30-7.
Suggest that the 'behaviour defined identifies the supported PSE Pinou contains the value of the aPSEPow	It Alternative specified ir verPairsx attribute (see 3	33.2.4. For a P	SE this attribute	Proposed I		Response S	Status O		
contents of this attribute is undefine	ed.'.			C/ 30	SC 30.12.2.1	.18e	P 39	L 34	# 14
Proposed Response Response	e Status O			Anslow, Pe	ete		Ciena		
				Comment	Туре Е	Comment	Status X		
C/ 30 SC 30.12.2.1.18a		36 #	[#] 154	"The m signific	nost significant fi cant bits indicate	rst three bits ir the Type."	dicates the Ty	pe." should be "1	The three most
aw, David	HPE			Suggested	lRemedy				
I can't seem to find the attribute aL capabilities' although I do see the v	very similarly named attr	ibute		signific	e "The most sigr cant bits indicate the same change	the Type."		es the Type." to "	The three most
aLldpXdot3LocPowerPairsx (page : the draft.	26, line 38) listed which	doesn't appear a	inywhere else in	Proposed I	Response	Response S	Status O		
SuggestedRemedy									
Either change the attribute name in				CI 33	SC 30.12.2.1	.18e	P 39	L 34	# 303
'aLldpXdot3LocPSEPowerPairsx' o 'aLldpXdot3LocPowerPairsx'. Note			werPairsx' with	Yseboodt,	Lennart		Philips		
'aLldpXdot3LocPowerPairs' (see IE				Comment	Type TR	Comment	Status X		
Proposed Response Response	e Status O			Likely	escriptive text for this text was cop these are the onl	ied from Claus	se 79.		contains two "shalls t be doing this.
30 SC 30.12.2.1.18b	P 39 L	2 #	ŧ 13	Suggested	Remedy				
nslow, Pete	Ciena			Replac	ce the word "shal	l set" with "set	s" in two locati	ons.	
,,	nt Status X led.			Proposed I	Response	Response S	Status O		
"that returns the if the load" is garb									
SuggestedRemedy change to "that returns whether the	e load"								

Pa **39** Li **34** Page 10 of 101 12/19/2016 11:30:14 A

C/ 33 SC 30.12.3.1.18e P 39 L 34 # 304 Yseboodt, Lennart Philips	C/ 30 SC 30.12.3.1.18b P 46 L 51 # 16 Anslow, Pete Ciena
omment Type TR Comment Status X	Comment Type E Comment Status X
The descriptive text for managed object aLldpXdot3RemPowerTypex contains two "s	
Likely this text was copied from Clause 79. Since these are the only shalls in Clause 30, this tells me we shouln't be doing this.	SuggestedRemedy
uggestedRemedy	Change "Boolean value use to" to "Boolean value used to"
Replace the word "shall set" with "sets" in two locations.	Proposed Response Response Status O
roposed Response Response Status O	
	Cl 33 SC 33.12.3.1.18c P 47 L 1 # 305
7 30 SC 30.12.2.1.18j P40 L 36 # 15	Yseboodt, Lennart Philips
nslow. Pete Ciena	Comment Type TR Comment Status X
omment Type E Comment Status X	The Clause 30 managed object aLldpXdot3RemPDModeSelection is no longer needed as
There seems to be a spurious new paragraph after "an Autoclass measurement"	we removed the corresponding LLDP bit.
uggestedRemedy	SuggestedRemedy Remove aLldpXdot3RemPDModeSelection section and remove the line from Table 30-7.
Delete it.	Proposed Response Response Status O
roposed Response Response Status O	Proposed Response Response Status O
/ 30 SC 30.12.2.1.18j P 40 L 36 # 301	C/ 30 SC 30.12.3.1.18i P 48 L 22 # 17 Anslow, Pete Ciena
seboodt, Lennart Philips	
omment Type E Comment Status X	Comment Type E Comment Status X "remote???PSE"
In aLldpXdot3LocAutoclassRequest an accidental paragraph put "and power budget	SuggestedRemedy
adjustment" in the wrong place.	Change "remote???PSE" to "remote PSE"
uggestedRemedy Fix.	Proposed Response Response Status O
roposed Response Response Status O	
oposed Response Response Status O	C/ 30 SC 30.12.3.1.18j P 48 L 32 # 18
	Anslow, Pete Ciena
	Comment Type E Comment Status X "remote???PD"
	SuggestedRemedy
	Change "remote???PD" to "remote PD"
	Proposed Response Response Status O
YPE: TR/technical required ER/editorial required GR/general required T/technical E/ OMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O	
ORT ORDER: Page, Line	

Cl 33 SC 33 Jones, Chad	P 51 Cisco	L 4	# 129	C/ 33 SC 33.3.1 Darshan, Yair	P 55 Mirosemi	L 34	# 80
See jones_01_0117.p SuggestedRemedy adopt jones_01_0117	•			Comment Type TR (TDL #63 D2.1) This comment is about add in the standard and try to b required for equations resu SuggestedRemedy	be satisfied with 3 signification	ant digits unless	
Proposed Response	Response Status O	<i>L</i> 1	# 306	Adopt darshan_06_0117.p Proposed Response F	odf if available. If not availa Response Status O	able keep it in th	ne TDL.
Yseboodt, Lennart <i>Comment Type</i> E Some table cells that eg. Additional informa <i>SuggestedRemedy</i> *sigh* Editor to visit ev <i>Proposed Response</i>		n-Dash to indicat	e an explicit empty.	Cl 33 SC 33.1.3 Schindler, Fred Comment Type ER Existing text is not clear ar "ICable in Table 33–1 is de pair current for Type 3 and Current imbalance is used Table 33-1 indicates the n number of pairsets used.	efined for 100% pair-to-pa I Type 4 is 2 × ICable." to indicate what portion o ominal highest pairset cur	ir balanced oper f the total currer rent. This limit c	nt exists on a pairset. does not restrict the
included because the format." This does no 33-1, the decimal poir column of Table 33-10 If the numbers are to decimal tab and that v	P 55 Ciena Comment Status X sfied required comment #9 ag style guide requires that decir to stand up to scrutiny. For ex this would be aligned if the trai 0 the decimal points do not ali be aligned at the decimal point vorks irrespective of whether any recently published 802.3	mal places are a ample in the sec ling zeros were r gn anyway. hts, then this has there are trailing	ligned in a table cond column of Table not there. In the Max to be done using a	additional clarification for 4 SuggestedRemedy Strike the called-out senter	I-pair operation.		

Since the trailing zeros have no significance, bring the draft into line with all other recent amendments and remove the trailing zeros.

Proposed Response	Response Status	0	
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SORT ORDER: Page, Line

Pa **56** Li 1

C/ 33 Yseboodt	SC 33.1 , Lennart	.3 P 56 Philips	<i>L</i> 1	# 307	C/ 33 Yseboo
Commen	t Type EF	Comment Status X			Comme
"I Ca	ble in Table 3	33-1 is defined for 100% pair-to-pa	air balanced op	peration where the total 4-	Cor

pair current for Type 3 and Type 4 is $2 \times I$ Cable . In Type 3 and Type 4 operation over 4pairs, the current may be unbalanced causing one pair to have a higher current than I Cable while the other pair of the same polarity will have a lower current than I Cable , resulting in a total current over 4-pairs of $2 \times I$ Cable ."

Repetitive.

SuggestedRemedy

"ICable, defined in Table 33-1, is the highest nominal current on a pair for a system without pair-to-pair current unbalance. When power is provided over 4-pairs, the current may be unbalanced, causing one pair to have a higher current than ICable, while the other pair of the same polarity carries a corresponding lower current than ICable. The maximum nominal total 4-pair current is twice the value of ICable."

Proposed Response Response Status O

C/ 33	SC 33.1.4	P 56	L 17	#	440	
Zimmerma	n, George	CME Consultin	g, Aqua			

Comment Type E Comment Status X

I_Port and I_Port-2P are introduced here without any corresponding reference to them. It leaves the reader searching around. The first time they show up is several pages later in connection with the state diagrams.

SuggestedRemedy

Either, delete lines 11 through 17, or, insert the following sentence at line 10: "In addition to I_Cable, the requirements of this standard reference current on a per port and per pairset basis, which are described here for reference."

Proposed Response Response Status **O**

C/ 33	SC	33.1.3	P 56	L 21	#	308	
Yseboodt	, Lennar	ť	Philips				
Commen	t Type	ER	Comment Status X				

mment Type ER Comment Status X

Comment #174 from D2.1 not completely implemented. "R Chan is the actual DC loop resistance from the PSE PI to the PD PI and back."

SuggestedRemedy

Change to:

"R Chan is the actual DC resistance from the PSE PI to the PD PI and back."

To avoid the term "DC loop resistance".

Proposed Response Response Status O

CI 33	SC 33.1.3.1	P 56	L 36	# 242
Schindle	r, Fred	Seen Simply	, Cisco, T	

Comment Type TR Comment Status X

Modified legacy text is incorrect for Type 4 system heating effects. Legacy text assumed either half or all the conductors provide 600 mA per pairset. This is still valid for Type 2 and Type 3 systems because the conductor currents are the same.

SuggestedRemedy

Replace legacy text,

"Under worst-case conditions, Type 2, Type 3, and Type 4 operation requires a 10 °C reduction in the maximum ambient temperature when all cable pairs are energized at ICable (see Table 33–1), or a 5 °C reduction in the maximum ambient temperature when half of the cable pairs are energized at ICable."

with,

"Under worst-case conditions, Type 2, and Type 3, operation requires a 10 °C reduction in the maximum ambient temperature when all cable pairs are energized at ICable (see Table 33–1), or a 5 °C reduction in the maximum ambient temperature when half of the cable pairs are energized at ICable."

A scaled version for Type-4 PSEs produces impractical operational guidelines. The Task Force should provide Type 4 PSE requirements, or reference appropriate cable standards, or create a TDL a for a cable-subject-matter expert (not the commenter).

Proposed Response Response Status O

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	Pa 56	Page 13 of 101
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	Li 36	12/19/2016 11:30:14 A
SORT ORDER: Page, Line		

C/ 33 SC 33.1.3.1	P 56	L 48	# 271	CI 33	SC 3	3.2		P 57	L 20	# 244
hariff, Masood	CommScope			Schindler,	Fred		S	en Simply	, Cisco, T	
	mment Status X			Comment		ER	Comment Sta			
Correct reference to ISO/IEC	TS 29125						have been conve ected sentence of			et points. This has le
SuggestedRemedy										ng to the searching
Change globally all instances Also globally delete "Edition 2 this is effectively a first edition	2" after 29125 since with			state"	pluggod	link coo	tion is one instan	co whon n	wor is no longor	roquired "
,	ponse Status O			Suggested			alon is one instan	ce when po	ower is no longer	required.
							ntence after the l	ast bullet (a	period was add	ed after this bullet in
					r comme					
C/ 33 SC 33.1.3.1 Yseboodt, Lennart	P 56 Philips	L 54	# 309	Proposed I	Respons	е	Response Sta	us O		
Comment Type E Col	mment Status X			<u></u>				D		
Footnote 1 says: "The numbe	ers in brackets correspor	d to those of th	e bibliography in	C/ 33 Jones, Cha	SC 3	3.2.1		P 57 sco	L 31	# 130
Annex A."				,		_	-			
SuggestedRemedy This illumination is only used	in one other place in 80'	2 3 and is unna	cessari/	Comment		E this str	Comment Sta		one of the allows	ble classification
Remove footnote.			ccoodiy.							two tables, 33-2 an
Proposed Response Res	ponse Status O			33-21.	I cannot	find the	commensurate s	shalls for th	ese new tables.	
				Suggested	,					
C/ 33 SC 33.2	P 57	L 15	# 243				SE shall meet on and of the paragra			ion permutations list
Schindler, Fred	Seen Simply, C		π 243	also, p	age 136	, line 23		e "A PD sh		one of the allowable
Comment Type ER Col	mment Status X			Proposed I			Response Star			
Legacy text uses bullet points readability.	s that should be improve	d to reduce rep	etition and improve	1	,					
"— To search the link section	n for a PD									
 To supply power to the def To monitor the power on the po		k section								
— To remove power when no		uired, returning	to the searching state"							
SuggestedRemedy		-	-							
Remove "To " from each bulle	et. Add a period to the la	ast bullet.								
Proposed Response Res	ponse Status O									

Pa **57** Li **31**

C/ 33 SC 33.2.1	P 57	L 35	# 325	C/ 33 SC 33.	2.1 <i>P</i> 57	L 47	# 327
Vendt, Matthias	Philips			Yseboodt, Lennart	Philips		
Comment Type ER	Comment Status X			Comment Type T	R Comment Status X		
Words cannot describ subclauses.	be how much I dislike these tab	ble/footnote puz:	zles to refer to		e of maximum Classes supported": to 6", overlaps with previous line.		
SuggestedRemedy				SuggestedRemedy			
"NOTE See 33.2.7	e the 3 footnotes by a Note at t and Table 33-13 for classifica	tion and maxim	um available power.	change to: "Class 5 to 6"			
See 33.5 for Data Lin 33.3.6.3 for Autoclass	k Layer classification. See 33. s."	2.10 for MPS. S	ee 33.2.7.3 and	Proposed Response	Response Status O		
(3	o zero for the note cell).				2.4 P 65	L 19	# 328
Proposed Response	Response Status 0			Yseboodt, Lennart	Philips	215	" 520
				Comment Type E	· · ·		
C/ 33 SC 33.2.1 Yseboodt, Lennart	Р 57 Philips	L 36	# 326	In Table 33-3 and	d 33-4 it would be more logical to lis order of Alt A where MDI-X comes		e Alt B(S), since this
Comment Type E	Comment Status X			SuggestedRemedy			
"Range of maximum (Classes supported", not range	of Classes.		Swap columns A	Iternative B(S) and Alternative B(X)) in both Tables.	
Only one Class is the	maximum.			Proposed Response	Response Status 0		
SuggestedRemedy							
change to: "Range of maximum (Class supported"						
Proposed Response	Response Status O						
CI 33 SC 33.2.2	P 57	L 37	# 20				
Anslow, Pete	Ciena						
Comment Type E	Comment Status X						
The IEEE style manual starting with "a" for earting	al says: "A table footnote shou ach table."	ld be marked wi	th lowercase letters				
0	to Table 33-2, Table 33-18, T	able 33-30, Tab	e 33-41, and Table 33-				
42 to use letters.	_						
Proposed Response	Response Status O						

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

Pa **65** Li **19** Page 15 of 101 12/19/2016 11:30:14 A

C/33 SC 33.2.5.1 P66 L17 # 329	C/ 33 SC 33.2.5.1.1 P 66 L 49 # 285
/seboodt, Lennart Philips	Stover, David Linear Technology
Comment Type TR Comment Status X	Comment Type E Comment Status X
"The polarity of PSE voltages during its operating states (detection, connection check, classification, power up, and power on) is the same as was used in the detection state and	"the behaviors of the Alternatives may be reversed", "the alternatives are named the Primary Alternative and the Secondary Alternative." Mixed-case usage of "Alternatives".
defined per Table 33-3 in 33.2.4."	SuggestedRemedy
This is not actually a requirement per the text as it is. The only 'shall' requires Class and Mark polarity to match with POWER_UP/POWER_ON	Grant editorial license to use appropriate case for "alternative" throughout document (for example this mixed usage also occurs in 33.2.4). Consult style guide?
polarity.	Proposed Response Response Status O
In addition, the reference should be to Table 33-4.	
SuggestedRemedy	Cl 33 SC 33.2.5.1.1 P 67 L 4 # 286
Since there seems to be no justification for adding a requirement, propose to fix the	Stover, David Linear Technology
descriptive text:	Comment Type E Comment Status X
"The polarity of PSE voltages during its operating states (power up and power on) is the	"Dual signature" missing hyphen in 2 locations within document (both in this paragraph).
same as was used during classification and defined per Table 33-4 in 33.2.4."	SuggestedRemedy
roposed Response Response Status O	Replace "dual signature" with "dual-signature" in both instances. (lines 4 and 7-8)
	Proposed Response Response Status O
immerman, George CME Consulting, Aqua	Cl 33 SC 33.2.5.1.1 P 67 L 4 # 330 Yseboodt Leppart Philips
immerman, George CME Consulting, Aqua <i>comment Type</i> TR <i>Comment Status</i> X "The polarity of PSE voltages during its operating states (detection, connection check,	Yseboodt, Lennart Philips
Immerman, George CME Consulting, Aqua omment Type TR Comment Status X	Yseboodt, Lennart Philips Comment Type E Comment Status X
mmerman, George CME Consulting, Aqua omment Type TR Comment Status X "The polarity of PSE voltages during its operating states (detection, connection check, classification, power up, and power on) is the same as was used in the detection state and defined" - first, "same as was used in the detection state" is circular with the parenthetical, which includes "detection", second, the states listed here don't match the	Yseboodt, Lennart Philips Comment Type E Comment Status X "If the connected PD is identified as dual signature, the top level state diagram will proceed to the "
mmerman, George CME Consulting, Aqua omment Type TR Comment Status X "The polarity of PSE voltages during its operating states (detection, connection check, classification, power up, and power on) is the same as was used in the detection state and defined" - first, "same as was used in the detection state" is circular with the parenthetical, which includes "detection", second, the states listed here don't match the names of states in the state diagram (there is no state named "detection" state or	Yseboodt, Lennart Philips Comment Type E Comment Status X "If the connected PD is identified as dual signature, the top level state diagram will proceed to the " dual signature has no hyphen.
immerman, George CME Consulting, Aqua <i>Comment Type</i> TR <i>Comment Status</i> X "The polarity of PSE voltages during its operating states (detection, connection check, classification, power up, and power on) is the same as was used in the detection state and defined" - first, "same as was used in the detection state" is circular with the parenthetical, which includes "detection", second, the states listed here don't match the	Yseboodt, Lennart Philips Comment Type E Comment Status X "If the connected PD is identified as dual signature, the top level state diagram will proceed to the " dual signature has no hyphen. SuggestedRemedy
Comment Type TR Comment Status X "The polarity of PSE voltages during its operating states (detection, connection check, classification, power up, and power on) is the same as was used in the detection state and defined" - first, "same as was used in the detection state" is circular with the parenthetical, which includes "detection", second, the states listed here don't match the names of states in the state diagram (there is no state named "detection" state or "classification"), and, since this section is related to type 1 and type 2 PSEs, includes the	Yseboodt, Lennart Philips Comment Type E Comment Status X "If the connected PD is identified as dual signature, the top level state diagram will proceed to the" dual signature has no hyphen. SuggestedRemedy Change to: Change to:
Timmerman, George CME Consulting, Aqua Comment Type TR Comment Status X "The polarity of PSE voltages during its operating states (detection, connection check, classification, power up, and power on) is the same as was used in the detection state and defined" - first, "same as was used in the detection state" is circular with the parenthetical, which includes "detection", second, the states listed here don't match the names of states in the state diagram (there is no state named "detection" state or "classification"), and, since this section is related to type 1 and type 2 PSEs, includes the connection check which doesn't exist in Type 1 and Type 2 PSEs.	Yseboodt, Lennart Philips Comment Type E Comment Status X "If the connected PD is identified as dual signature, the top level state diagram will proceed to the " dual signature has no hyphen. SuggestedRemedy

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 **67** Li **4**

C/ 33 SC 33.2.5.1. ⁻ Stover, David	I P 67 Linear Techno	L 6 blogy	# 287	C/ 33 Yseboodt, Ler	SC 33.2.5.4	P 68 Philips	L 43	# 333
Comment Type E "semi independent" mi: SuggestedRemedy	Comment Status X ssing hyphen in 1 location wit	hin document.		"This varia	State diagran ables is provi	Comment Status X n variable mr_pse_enable co ded by a management interfa nable bits (11.1:0), as descril	ace that may be	mapped to the PSE
Replace "Semi indeper	ndent" with "Semi-independer	nt".		functions.		hable bits (11.1.0), as describ		ner equivalent
Proposed Response	Response Status O			Managem	ent has beer	n removed.		
C/ 33 SC 33.2.5.1. Yseboodt, Lennart	Philips	L7	# 331		quoted sente	ence t say "This value corresponds	s to MDIO regist	er bits 11.1:0" in the
Comment Type E "Dual signature classifi and Secondary " dual signature has no h	Comment Status X cation is defined in Figure 33 hyphen.	-19 and Figure	33-20 for the Primary	Proposed Res	sponse	Response Status O	L1	# 334
SuggestedRemedy				Yseboodt, Ler		Philips		# 554
Change to: "Dual-signature classifi and Secondary "	cation is defined in Figure 33	-19 and Figure	33-20 for the Primary		State diagran	Comment Status X		
Proposed Response	Response Status O			Control re		ed by a management interfac ink Layer Classification Capa ons."		
SC 33.2.5.4	P 68	L 35	# 332	Managem	ent has beer	removed.		
seboodt, Lennart	Philips			SuggestedRe	2			
"This variable is provid	Comment Status X n variable mr_pse_alternative ed by a management interfac ontrol bits (11.3:2) or other ed	e that may be r	napped to the PSE	Remove o Proposed Res	uoted senter	nce Response Status O		
Management has beer	removed.							
SuggestedRemedy Remove quoted senter	nce.							

Proposed Response Response Status **0**

Pa **70** Li **1** # 245

CI 33	SC 33.2.5.12	P 74	L 24	
Schindler	, Fred	Seen Simply,	Cisco, T	

Comment Type TR Comment Status X

The legacy state diagram (page 74) and text do not match the behavior for the processing time of the tdbo_timer cover in text on page 109 line 21. Legacy text indicates, "If a PSE that is performing detection using Alternative B (see 33.2.4) determines that the impedance at the PI is greater than Ropen as defined in Table 33–12, it may optionally consider the link to be open circuit and omit the tdbo_timer interval." The state diagrams require that Type 1 and 2 PSEs skip the BACKOFF state when the signature is open circuit while the text makes this behavior optional.

SuggestedRemedy

State diagrams override text. I believe Chad enthusiastically decline the opportunity to submit a maintenance request for this concern, I am not sure that I will be attending long enough to shepherd this through maintenance but I have provided details to make this possible. Midspans use this ability so a midspan vendor should facilitate this effort.

The solution provided may be incorporated now or by maintenance. Either way this comment should remain unsatisfied until the proposed corrective action is made.

Repeat the fix made to the Type 3 and 4 PSE state diagram for the Type 1 and 2 PSE state diagram. Add variable.

"option_tdbo_omit

A variable indicating if the PSE omits the Tdbo back off timer if it detects an open circuit on when performing detection only on alternative B. Values: FALSE: The PSE does not omit the Tbdo back off timer. TRUE: The PSE omits the Tdbo back off timer."

For Type 1 and 2 state SIGNATURE_INVALID replace the existing exit condition,

"(mr_pse_alternative = B) * (signature <> open_circuit)", with

"(mr_pse_alternative = B) * ((signature = open_circuit) * !option_tdbo_omit + (signature = invalid))"

For the same state diagram, state SIGNATURE_INVALID, replace the existing exit condition,

"(mr_pse_alternative = A) + ((mr_pse_alternative=B) * (signature = open_circuit))", with "(mr_pse_alternative = A) + ((mr_pse_alternative=B) * (signature = open_circuit) * option_tdbo_omit)"

Proposed Response Response Status **O**

C/ 33	SC 33.2.5.7	P 74	L 48	#	155
Law, David		HPE			

Comment Type TR Comment Status X

There is an assignment to the pd_dll_power_type variable in the INITIALIZE state of Figure 33–46 'PSE power control state diagram' as well as a mapping to it in Table 33–41 'Attribute to state diagram variable cross-reference' so effectively there are two sources to this variable. There is a case where a Type 2 PSE that supports 1-event physical layer classification, Data Link Layer Classification, and chooses the option of setting the parameter_type variable to 1 in the set_parameter_type function if mutual identification is not complete, is connected to a Type 2 PD, which will result in two different values for pd_dll_power_type from these two sources.

After a successful detection Figure 33-13 'Type 1 and Type 2 PSE state diagram' will transition in to the DETECT_EVAL state and then to the ONE_EVENT_CLASS state (arrow B) since the PSE supports 1-event physical layer classification (class_num_events = 1). The state diagram will then call the do_classification function which will result in the pd_requested_power variable being set to 3 and the mr_pd_class_detected variable being set to 4. The state diagram will then proceed to the CLASSIFICATION_EVAL and, assuming sufficient power, to the POWER_UP state.

Once power up has been completed successfully, since this is a TYPE 2 PSE (PSE_TYPE = 2) the state diagram will transition from the POWER_UP state to the SET_PARAMETERS state calling the set_parameter_type function. Since only 1-event physical layer classification has taken place mutual identification is not complete however a Type 2 PD has been detected since the mr_pd_class_detected variable is set to 4. The PSE therefore has the option of setting the parameter_type variable to 1 (see page 72, line 54, 'When a Type 2 PSE powers a Type 2 PD, the PSE may choose to assign a value of '1' to parameter_type if mutual identification is not complete ...'). I will assume this option is taken.

The state diagram will therefore transition to the POWER_ON state. At some point later, since Data Link Layer Classification is supported, the pse_dll_ready variable becomes TRUE and the aLldpXdot3RemPowerType attribute will return a bit string indicating a Type 2 PD. This, according to Table 33–41 'Attribute to state diagram variable cross-reference', also results in pd_dll_power_type being set to 2. The problem is that, according to the Figure 33-46 'PSE power control state diagram', when pse_dll_ready becomes TRUE the value of parameter_type is latched on to pd_dll_power_type, and at that point in time it is 1.

Now it seems that the intent was that when pd_dll_power_type became 2 due to Data Link Layer Classification, the equation on the transition from the POWER_ON state to the SET_PARAMETERS state became true ((PSE_TYPE = 2) * (pd_dll_power_type = 2) * (parameter_type = 1)) resulting in the set_parameter_type function being called for a second time. The parameter_type variable would then be set 2 enabling the PSE to increase the power it supplies from Type 1 to Type 2 limits.

The problem is there are two values of pd_dll_power_type once Data Link Layer Classification is in operation, the one based on the Table 33–41 mapping which in this case would be set to a value of 2, and the one output by the Figure 33-46 state diagram,

Do 71

Page 18 of 101

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TTE. Tratechnical required Enveational required Oragener	arrequired Treetimear Ereatonal Orgeneral	1 u 1 4	r age to or to t
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	Li 48	12/19/2016 11:30:14 A
SORT ORDER: Page, Line			

which in this case would be set to a value of 1. As well as the statement that 'State diagrams take precedence over text.' incorporated by the reference to subclause 21.5 in subclause 33.2.5.2 the definition of the $pd_dll_power_type$ variable in subclause 33.2.5.4 'Type 1 and Type 2 variables' for Figure 33-13 state that it is 'control variable output by the PSE power control state diagram (Figure 33–46) ...'. Based on this it would seem that the latter value of 1 should be used, however the problem with that is the second call to SET_PARAMETERS state will then never happen, and the PSE will have to continue using Type 1 limits.

It would seem a better approach would be to remove the assignment of parameter_type to pd_dll_power_type in the INITIALIZE state of Figure 33–46 'PSE power control state diagram' and just use the Table 33–41 'Attribute to state diagram variable cross-reference' mapping for Figure 33-13. This is the only use of the parameter_type and pd_dll_power_type variables in Figure 33–46 so they can also be removed from the associated variable definition lists.

The variable pd_dll_power_type however has to gated while pse_dll_ready is FALSE, since at that time aLldpXdot3RemPowerType is undefined and therefore the mapping of Table 33–41 'Attribute to state diagram variable cross-reference' is undefined. There also needs to be some qualification based on DLL being implemented for the case of a Type 2 PSE with 2-event physical layer classification but no Data Link Layer Classification.

Based on this the use of pd_dll_power_type on the POWER_ON to SET_PARAMETERS transition should be qualified with pse_dll_capable = TRUE and pse_dll_ready = TRUE, so the equation would become (PSE_TYPE = 2) * (pd_dll_power_type = 2) * (parameter_type = 1) * pse_dll_capable * pse_dll_ready.

NOTE: This comment relates to TDL D2.1 #118, #122, #140 and #25.

SuggestedRemedy

Suggest that:

[1] The equation on the transition from the POWER_ON state to the SET_PARAMETERS state in Figure 33-13 'Type 1 and Type 2 PSE state diagram' be changed to read '(PSE_TYPE = 2) * (pd_dll_power_type = 2) * (parameter_type = 1) * pse_dll_capable *

pse_dll_ready'.

[2] The assignment 'pd_dll_power_type <= parameter_type' in the INITIALIZE state in Figure 33–46 'PSE power control state diagram' be removed.

[3] The definition of parameter_type be removed from 33.5.3.3 'Single-signature system Variables'.

[4] The definition of pd_dll_power_type be removed from 33.5.3.3 'Single-signature system Variables'.

[5] In definition of pd_dll_power_type in subclause 33.2.5.4 'Type 1 and Type 2 variables' change the text 'A control variable output by the PSE power control state diagram (Figure 33–46) that indicates ...' to read 'A variable mapped from the aLldpXdot3RemPowerType as defined in Table 33-41 that indicates ...'.

Proposed Response Response Status **O**

CI 33	SC 33.2.5.9		°77	L 5	# 289
Stover, Da	VID	Line	ear Techno	ology	
Comment	Type TR	Comment Statu	is X		
Alterna mainta assign Also, t be use Finally value,	atives may be re- ained in every of ed in IDLE and he assignment er defined. r, when pingpon	eversed as long as t ther state." Whereas in TEST_MODE. of alt_pri is forced to g_en==TRUE, assig I value is unspecifie	he roles and s, in the PS o "a" in TE onment of	re established in SE SD, the define ST_MODE, tho	
	, , ,	is fine.			
Suggested	-				
See st	over_02_0117.p	odf			
Proposed	Response	Response Statu	s O		
CI 33	SC 33.2.5.9	F	⁹ 78	L 29	# 443
Zimmerma	in, George	CM	E Consulti	ing, Aqua	
Comment	Туре Т	Comment Statu	is X		
Text d det_or the int	escribes det_on nce_sec is set ir	nce_sec as only bein ENTRY_SEC, which tion will be met if the	ng valid wh ch only ha	ppens while sis	m = FALSE. (I believ
Text d det_or the int	escribes det_on nce_sec is set ir ent of the limitat er, editorial, com	nce_sec as only bein ENTRY_SEC, which tion will be met if the	ng valid wh ch only ha	ppens while sis	m = FALSE. (I believ
Text d det_or the int anothe Suggested	escribes det_on nce_sec is set ir ent of the limitat er, editorial, com	nce_sec as only bein ENTRY_SEC, which tion will be met if the	ng valid wh ch only ha e definition	ppens while sis is are changed a	m = FALSE. (I believ

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COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
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Pa **78** Li **29**

			1 002.001 02			Teeneulau					
CI 33	SC 33.2.5.9	P 78	L 31	# 442	CI 33	SC 33.2	.5.9	P 80		L 34	# 444
Zimmerm	nan, George	CME Consulti	ng, Aqua		Zimmerma	an, George		CME C	onsulting, A	Aqua	
Commen	t Type E	Comment Status X			Comment	Type TR	ł	Comment Status	(
	once_sec TRUE a the variable is re	nd FALSE conditions don't m set.	atch descriptio	n, and don't reference	undef	ned on the a	arcs tha	the variable can't be at use it. There are a	rcs which u	use both tru	e and false of this
Suggeste	edRemedy				variab not pr		E in th	ne secondary SISM -	it is unclea	r what is in	tended if the variable is
		PSE has not probed on the S n the Secondary Alternative s			Suggeste						
alteri seco	native diagram.", a ndary state alterna	also,change "TRUE" definitior ative diagram."	0	, , , , , , , , , , , , , , , , , , ,	Chang	ge "this optic	onsidere	riable" to "this variabl ed as if the option we s.			
Proposed	d Response	Response Status O				Response		Response Status	0		
C/ 33	SC 33.2.5.9	P 79	L 25	# 156							
Law, Dav		HPE	2 20	" 150							
varia equa do_c do_c other	blause 33.2.5.9 'Ty ble indicating if an I to or greater than lassification and a lassification found r variables listed a	Comment Status X ype 3 and Type 4 variables' du hy IClass measured by the PS in IClass_LIM min'. Based of the such should be listed as part in subclause 33.2.5.11 'Type fter the text 'This function retu lass_lim_det_pri and iclass_li	SE during do_cl on this isn't this art of the definiti a 3 and Type 4 urns the followir	assification is invalid or a variable output by the on of the functions' along with the ng variables:'. Similar							
Suggeste	edRemedy										
Sugg	gest that:										
	he iclass_lim_det ble list.	variable definition should be i	moved in to the	do_classification							
	he iclass_lim_det_ lassification_pri va	pri variable definition should ariable list.	be moved in to	the							

[3] The iclass_lim_det_sec variable definition should be moved in to the

Response Status 0

do_classification_sec variable list.

Proposed Response

Pa **80** Li **34**

C/ 33	SC 33.2.5.9	P 81	L 3	# 234	C/ 33	SC 33.2.5.9	P 84	L 12	# 336
Picard, Jean		Texas Instr	uments		Yseboodt, L	_ennart	Philips		
Comment Typ	be TR	Comment Status X			Comment T	Гуре Е	Comment Status X		
2) The "po which is 4	d_cls_4Ptype_ 4PID.	ed in state diagram) are m _xx" name does not clearly	represent what t		The bel		re-evaluated once" tatediagram of the re-evalua ables.	ation should be d	ecoupled from the
since the	main SD does	b use the staggered detects s not care about the state	of this variable (if	sec is already powered,	SuggestedF Change	•			
variable u	unilaterally me	t it is 4P capable). So, we ans if it is 4P capable or n cific test method (3-finger	ot (or that it is Typ	pe 3-4 or not), it is just	"pse_s	s_mode will be			
Suggested Rei		cinc test method (s-inger	lass and paraller		Proposed R	Response	Response Status 0		
00		e pri and pd cls 4Ptype s	sec from list of va	riables					
i tomovo p					C/ 33	SC 33.2.5.9	P 84	L 12	# 445
	e following defi	nitions:			Zimmermar	n, George	CME Consu	ılting, Aqua	
pd_cls_4F This varia		4PID and Type 3 or Type	4 dual-signature F	PD has been established	Comment T	Type TR	Comment Status X		
		generate 3 class events of			DOO 00	mode undate	needs a way to be reset, of	herwise it create	s a loop/race-conditio
TRUE: PD	D is a candida	ite for 4-pair power.				/ER_ON			
TRUE: PE FALSE: P	D is a candida PD not a candi		he PSE has not u		in POW Suggested	/ER_ON Remedy			·
TRUE: PE FALSE: P determine pd_cls_4F This varia by using t TRUE: PE FALSE: P	D is a candida PD not a candi e 4P capability PID_sec: able indicates the method to D is a candida PD not a candi	ite for 4-pair power. idate for 4-pair power OR t	he PSE has not u ents. 4 dual-signature F n the Secondary he PSE has not u	used the method to PD has been established Alternative.	in POW Suggestedf Insert " POWE value o pg 95) I constru time to	/ER_ON Remedy pse_ss_mode_ R_ON." after "A f pse_ss_mode POWER_ON s ictions. (note - think).	update is set to FALSE after A control variable that is use b if it is in the POWER_ON s tate to insert "pse_ss_mode presentation may be provid	r pse_ss_mode i d to cause the Ps state.". Modify st e_update <= FALs	s evaluated in SE to re-evaluate to ate diagram (Fig 33-1 SE" after if-then-else
TRUE: PE FALSE: P determine pd_cls_4F This varia by using t TRUE: PE FALSE: P	D is a candida PD not a candid e 4P capability PID_sec: able indicates the method to D is a candida PD not a candid e 4P capability	te for 4-pair power. idate for 4-pair power OR f y by generating 3 class even 4PID and Type 3 or Type generate 3 class events of te for 4-pair power. idate for 4-pair power OR f	he PSE has not u ents. 4 dual-signature F n the Secondary he PSE has not u	used the method to PD has been established Alternative.	in POW SuggestedH Insert " POWEI value o pg 95) I constru	/ER_ON Remedy pse_ss_mode_ R_ON." after "A f pse_ss_mode POWER_ON s ictions. (note - think).	update is set to FALSE afte A control variable that is use a if it is in the POWER_ON s tate to insert "pse_ss_mode	r pse_ss_mode i d to cause the Ps state.". Modify st e_update <= FALs	s evaluated in SE to re-evaluate to ate diagram (Fig 33-1 SE" after if-then-else
TRUE: PE FALSE: P determine pd_cls_4F This varia by using t TRUE: PE FALSE: P determine Proposed Res	D is a candida PD not a candid e 4P capability PID_sec: able indicates the method to D is a candida PD not a candid e 4P capability sponse	te for 4-pair power. idate for 4-pair power OR f / by generating 3 class events generate 3 class events of te for 4-pair power. idate for 4-pair power. / by generating 3 class events <i>Response Status</i> O	he PSE has not u ents. 4 dual-signature F n the Secondary he PSE has not u ents.	used the method to PD has been established Alternative. used the method to	in POW SuggestedF Insert "µ POWEI value o pg 95) I constru time to Proposed F C/ 33	VER_ON Remedy pse_ss_mode_ R_ON." after "A f pse_ss_mode POWER_ON si ictions. (note - think). Response SC 33.2.5.10	update is set to FALSE after A control variable that is use if it is in the POWER_ON state to insert "pse_ss_mode presentation may be provid Response Status 0 P 85	r pse_ss_mode i d to cause the Ps state.". Modify st e_update <= FALs	s evaluated in SE to re-evaluate to ate diagram (Fig 33-1 SE" after if-then-else
TRUE: PE FALSE: P determine pd_cls_4F This varia by using t TRUE: PE FALSE: P determine Proposed Res	D is a candida PD not a candid e 4P capability PID_sec: able indicates the method to D is a candida PD not a candid e 4P capability sponse SC 33.2.5.9	te for 4-pair power. idate for 4-pair power OR f / by generating 3 class even 4PID and Type 3 or Type - generate 3 class events of te for 4-pair power. idate for 4-pair power OR f / by generating 3 class events	he PSE has not u ents. 4 dual-signature F n the Secondary he PSE has not u	used the method to PD has been established Alternative.	in POW SuggestedH Insert "µ POWEI value o pg 95) I constru time to Proposed R C/ 33 Law, David	VER_ON Remedy pse_ss_mode_ R_ON." after "A f pse_ss_mode POWER_ON si ictions. (note - think). Response SC 33.2.5.10	update is set to FALSE after A control variable that is use a if it is in the POWER_ON state to insert "pse_ss_mode presentation may be provid <i>Response Status</i> O P 85 HPE	er pse_ss_mode i d to cause the Ps state.". Modify st e_update <= FALs ed - this might no	s evaluated in SE to re-evaluate to ate diagram (Fig 33-1 SE" after if-then-else of be the right fix, nee
TRUE: PE FALSE: P determine pd_cls_4F This varia by using t TRUE: PE FALSE: P determine Proposed Res	D is a candida PD not a candid e 4P capability PID_sec: able indicates the method to D is a candida PD not a candid e 4P capability sponse SC 33.2.5.9 nnart	tte for 4-pair power. idate for 4-pair power OR f y by generating 3 class even 4PID and Type 3 or Type generate 3 class events of te for 4-pair power. idate for 4-pair power OR f y by generating 3 class even <i>Response Status</i> O P 81 Philips	he PSE has not u ents. 4 dual-signature F n the Secondary he PSE has not u ents.	used the method to PD has been established Alternative. used the method to	in POW SuggestedH Insert " POWEI value o pg 95) I constru time to Proposed R C/ 33 Law, David Comment T	VER_ON Remedy pse_ss_mode_ R_ON." after "A f pse_ss_mode POWER_ON si inctions. (note - think). Response SC 33.2.5.10	update is set to FALSE after A control variable that is use b if it is in the POWER_ON state to insert "pse_ss_mode presentation may be provid <i>Response Status</i> 0 0 P 85 HPE <i>Comment Status</i> X	er pse_ss_mode i d to cause the PS state.". Modify st _update <= FAL ed - this might no	s evaluated in SE to re-evaluate to ate diagram (Fig 33-1 SE" after if-then-else of be the right fix, nee # 157
TRUE: PE FALSE: P determine pd_cls_4F This varia by using t TRUE: PE FALSE: P determine Proposed Res C/ 33	D is a candida PD not a candid e 4P capability PID_sec: able indicates the method to D is a candida PD not a candid e 4P capability sponse SC 33.2.5.9 nnart pe T	te for 4-pair power. idate for 4-pair power OR f / by generating 3 class even 4PID and Type 3 or Type - generate 3 class events of te for 4-pair power. idate for 4-pair power OR f / by generating 3 class even Response Status 0 P 81	he PSE has not u ents. 4 dual-signature F n the Secondary . he PSE has not u ents.	used the method to PD has been established Alternative. used the method to # <u>335</u>	in POW SuggestedF Insert "I POWEI value o pg 95) I constru time to Proposed R C/ 33 Law, David Comment T Sugges reference	VER_ON Remedy pse_ss_mode_ R_ON." after "A f pse_ss_mode POWER_ON si ictions. (note - think). Response SC 33.2.5.10 Type T st that there sho ced. This would	update is set to FALSE after A control variable that is use a if it is in the POWER_ON state to insert "pse_ss_mode presentation may be provid <i>Response Status</i> O P 85 HPE	to which time is 1	s evaluated in SE to re-evaluate to ate diagram (Fig 33-1 SE" after if-then-else of be the right fix, nee # 157 Fable 33–9 is being
TRUE: PE FALSE: P determine pd_cls_4F This varia by using t TRUE: PE FALSE: P determine Proposed Res C/ 33 S Yseboodt, Ler Comment Typ "pd_cls_4	D is a candida PD not a candid e 4P capability PID_sec: able indicates the method to D is a candida PD not a candid e 4P capability sponse SC 33.2.5.9 nnart pe T 4Ptype_pri" an	te for 4-pair power. idate for 4-pair power OR f y by generating 3 class events 4PID and Type 3 or Type 4 generate 3 class events of te for 4-pair power. idate for 4-pair power. y by generating 3 class events <i>Response Status</i> O <i>P</i> 81 Philips <i>Comment Status</i> X	he PSE has not u ents. 4 dual-signature F n the Secondary . he PSE has not u ents.	used the method to PD has been established Alternative. used the method to # <u>335</u>	in POW SuggestedF Insert "I POWEI value o pg 95) I constru time to Proposed F CI 33 Law, David Comment T Sugges reference	VER_ON Remedy pse_ss_mode_ R_ON." after "A f pse_ss_mode POWER_ON si ictions. (note - think). Response SC 33.2.5.10 Type T st that there sho ced. This would Remedy	A control variable that is use a if it is in the POWER_ON state to insert "pse_ss_mode presentation may be provid <i>Response Status</i> 0 0 <i>P</i> 85 HPE <i>Comment Status</i> X puld be a specific reference d align this timer definition w	tr pse_ss_mode i d to cause the Ps state.". Modify st e_update <= FALS ed - this might no <i>L</i> 53 to which time is T ith the others in t	s evaluated in SE to re-evaluate to ate diagram (Fig 33-1 SE" after if-then-else to be the right fix, need # 157 Fable 33–9 is being his subclause.
TRUE: PE FALSE: P determine pd_cls_4F This varia by using t TRUE: PE FALSE: P determine Proposed Res C/ 33 S Yseboodt, Ler Comment Typ "pd_cls_4 SuggestedRea Change to	D is a candida PD not a candid e 4P capability PID_sec: able indicates the method to D is a candida PD not a candid e 4P capability sponse SC 33.2.5.9 nnart be T 4Ptype_pri" an emedy o:	te for 4-pair power. idate for 4-pair power OR f y by generating 3 class events 4PID and Type 3 or Type 4 generate 3 class events of te for 4-pair power. idate for 4-pair power. y by generating 3 class events <i>Response Status</i> O <i>P</i> 81 Philips <i>Comment Status</i> X	he PSE has not u ants. 4 dual-signature F n the Secondary he PSE has not u ents. <i>L</i> 38	PD has been established Alternative. used the method to # 335	in POW SuggestedF Insert "I POWEI value o pg 95) I constru time to Proposed F CI 33 Law, David Comment T Sugges reference	VER_ON Remedy pse_ss_mode_ R_ON." after "A f pse_ss_mode POWER_ON si ictions. (note - think). Response SC 33.2.5.10 Fype T st that there sho ced. This would Remedy st that 'See Tab	update is set to FALSE after A control variable that is use b if it is in the POWER_ON state to insert "pse_ss_mode presentation may be provid <i>Response Status</i> O D P 85 HPE <i>Comment Status</i> X puld be a specific reference	tr pse_ss_mode i d to cause the Ps state.". Modify st e_update <= FALS ed - this might no <i>L</i> 53 to which time is T ith the others in t	s evaluated in SE to re-evaluate to ate diagram (Fig 33-1 SE" after if-then-else to be the right fix, need # 157 Fable 33–9 is being his subclause.

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 **85** Li **53** Page 21 of 101 12/19/2016 11:30:14 A

C/ 33 SC 33.2.5.10 P 86 L 4 # 337 Yseboodt, Lennart Philips	C/ 33 SC 33.2.5.12 P 92 L 1 # 284 Stover, David Linear Technology Linear Technology Linear Technology
Comment Type T Comment Status X tclass_reset_timer is not used in any statediagram	Comment Type TR Comment Status X TDL 2.1: Add Autoclass power measurement to SDs.
SuggestedRemedy Remove timer variable "tclass_reset_timer"	SuggestedRemedy See stover_01_0117.pdf
Proposed Response Response Status O	Proposed Response Response Status O
C/ 33 SC 33.2.5.11 P 88 L 4 # 159 Law, David HPE	Cl 33 SC 33.2.5.12 P 92 L 1 # 338 Yseboodt, Lennart Philips
Comment Type TR Comment Status X Suggest that a more detailed explanation of 'Functions references appended with "_do indicate that the function has completed and returned its variables' be provided such a when this viable is set to FALSE. SuggestedRemedy	
Suggest that the first sentence of subclause 33.2.5.11 be changed to read: The variable formed by the function name appended with "_done" is used to indicate v the function has completed. This variable is set to FALSE when the function is called is set to TRUE once the function is complete and its output variables are valid.	
Proposed Response Response Status O	
C/ 33 SC 33.2.5.11 P 88 L 11 # 81 Darshan, Yair Mirosemi	
Comment Type TR Comment Status X (TDL #54 D2.1) The pd_autoclass term is never ready by the state diagram.	
SuggestedRemedy If not resolved yet for D2.2, keep it in the TDL.	

Proposed Response Response Status **O**

Pa **92** Li **1**

CI 33	SC 33.2.5.12	P 92	L 3	# 246	CI 33 SC	33.2.5.12	P 92	L 12	# 160
Schindler,	, Fred	Seen Simply,	Cisco, T		Law, David		HPE		
Comment	Type TR	Comment Status X			Comment Type	т	Comment Status X		
STAR see pa This s	RT_CXN_CHK (wa age 146 State INF seems to be a new	try values are shown on line s B), START_DETECT (was RUSH is entered by an unlab v approach used to reduce sp	C) and SISM eled input.	START (was G). Also	construct is d a valid transit subclause 21	efined in IE ion qualifiei .5.3, item e	ch as 'IF' is defined in subcla EE Std 802.3-2015 Table 21 r rather than part of an IF sta), the addition of END to the construct be locally defined	-1 although I t tement (see IE construct isn't	think that was more a EEE Std 802.3-2015 defined. Suggest tha
The e	mpty box is a prot	plem for anyone trying to eva	luate connecti	ons to a specific state.	SuggestedRemed	dy			
Suggested	dRemedy				Suggest that	the followin	g definition be added to subo	clause 33.2.5.2	2:
For al	ll state diagrams,						diagrams use an IF-THEN-E ith the state. If the logical ex		
Optior Place		name in the state-entry box.			evaluates true where the EL	e all the act SE is omitte	ions listed between THEN ar ed, the actions listed betwee sociated with the IF evaluate	nd ELSE will be n THEN and E	e executed. In the ca ND will be executed.
	e a table, in the st	ate diagram section, that list ist all states that enter the ca		n an unlabeled entry	ELSE and EN	ND will be e en the THE	xecuted. After executing the N and END, or between the	actions listed I	between THEN and
	Entered RT_CXN_CHK	Exit state DETECT_EVAL			Proposed Respor	nse	Response Status 0		

The Task Force should also determine whether Clause 33 needs to add text clarifying the new approaches taken when documenting behavior. Any required text should be provided as part of this comment resolution.

Proposed Response Response Status **0**

Pa **92** Li **12**

C/ 33 SC 33.2.5.12 P 92 L 43 # 161	C/ 33 SC 33.2.5.12 P92 L 51 # 162
Law, David HPE	Law, David HPE
Comment Type TR Comment Status X	Comment Type T Comment Status X
The variables do_detect_pri_done and do_detect_sec_done, used for example to qualify some of the transitions out of the START_DETECT state of Figure 33–15 'Type 3 and Type 4 top level PSE state diagram' are not defined. Suggest that these variables should be added to the variables returned by the do_detect_pri and do_detect_sec functions respectively. A similar issue exits with the do_detection_done variable used in Figure	The conditions equation for the transition from CXN_CHK_EVAL to IDLE should be placed near the exit from the CXN_CHK_EVAL state before the arrow from SISM_START. With the current position of the equation it isn't clear that it doesn't apply to the transition from SISM_START to IDLE. SuggestedRemedy
33–13 'Type 1 and Type 2 PSE state diagram'.	Move the conditions equation for the transition from CXN_CHK_EVAL to IDLE to near the
SuggestedRemedy	exit from the CXN_CHK_EVAL state.
Suggest that	Proposed Response Response Status O
[1] In subclause 33.2.5.11 'Type 3 and Type 4 functions' add to the end of the list of variables returned by the do_detect_pri function (page 90, line 47) the following:	C/ 33 SC 33.2.5.12 P 94 L 28 # 290
do_detect_pri_done: This variable indicates if the detection function is complete and if the	C/ 33 SC 33.2.5.12 P 94 L 28 # 290 Stover, David Linear Technology
other variables returned by this function are valid.	
TRUE: Detection complete and the other variables returned by this function are valid. FALSE: Detection incomplete and the other variables returned by this function are not yet valid.	Comment Type E Comment Status X Hanging open paren in transition between DETECT_EVAL and START_DETECT: "(pse_alternative = both) * ("
[2] In subclause 33.2.5.11 'Type 3 and Type 4 functions' add to the end of the list of variables returned by the do_detect_sec function (page 91, line 47) the following:	SuggestedRemedy Move open paren down to next line
do_detect_sec_done: This variable indicates if the detection function is complete and if the other variables returned by this function are valid.	Proposed Response Response Status O
TRUE: Detection complete and the other variables returned by this function are valid. FALSE: Detection incomplete and the other variables returned by this function are not yet	CI 33 SC 33.2.5.12 P94 L 38 # 247
valid.	Schindler, Fred Seen Simply, Cisco, T
[3] In subclause 33.2.5.6 'Type 1 and Type 2 functions' add to the end of the list of	Comment Type TR Comment Status X
variables returned by the do_detection function (page 72, line 36) the following:	The Type 3 and 4 state diagram (page 94) and text do not match the behavior for the
do_detection_done: This variable indicates if the detection function is complete and if the other variables returned by this function are valid.	processing time of the tdbo_timer cover in text on page 109 line 21, because an incomplete fix was made to create this draft. This comment is related to D2.1 TDL 112.
	SuggestedRemedy For the DETECT_EVAL exit path that is shared by the BACKOFF state exit path add the
TRUE: Detection complete and the other variables returned by this function are valid. FALSE: Detection incomplete and the other variables returned by this function are not yet valid.	following term which enables the optional behavior.
TRUE: Detection complete and the other variables returned by this function are valid. FALSE: Detection incomplete and the other variables returned by this function are not yet	

TYPE: TR/technical required ER/editorial required GR/gener	al 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 **94** Li **38** Page 24 of 101 12/19/2016 11:30:14 A

C/33 SC 33.2.5.12 P 95 L 7 # 295 Stover, David Linear Technology Linear Technology	C/ 33 SC 33.2.5.12 P 95 L 26 # 310 Yseboodt, Lennart Philips
Comment Type TR Comment Status X	Comment Type TR Comment Status X
CLASS_EVAL checks for ted_timer_done. However, ted_timer from dual-signature state arcs is not checked. Implication is that PSE may error_delay/remove power from dual-	pse_ss_mode_update is not set to False in POWER_ON (editing mistake in implementing yseboodt_07_1116_2p4p.pdf).
signature PD and power single-signature PD before T_ED.	SuggestedRemedy
	add in POWER_ON:
Change xition from CLASS_EVAL to POWER_UP From: "ted_timer_done *"	"pse_ss_mode_update = False"
To: "ted_timer_done * ted_timer_pri_done * ted_timer_sec_done *"	Proposed Response Response Status O
Change xition from CLASS_EVAL to POWER_DENIED From: "ted timer done +"	C/ 33 SC 33.2.5.12 P 95 L 31 # 311
To: "!ted_timer_done + !ted_timer_pri_done + !ted_timer_sec_done +"	Yseboodt, Lennart Philips
Proposed Response Response Status O	Comment Type TR Comment Status X There is a host of "multiple true" errors in the POWER_ON state.
C/ 33 SC 33.2.5.12 P 95 L 9 # 163	SuagestedRemedy
C/33 SC 33.2.5.12 P 95 L 9 # 163 .aw, David HPE	Adopt yseboodt_03_0117_power_on_state_fix.txt
	Proposed Response Response Status O
Comment Type T Comment Status X	Proposed Response Response Status U
In the POWER_UP state in Figure 33–15 'Type 3 and Type 4 top level PSE state diagram (continued)' alt pwrd pri is set to TRUE as a result of the IF statement evaluating true or	
false. Based on this alt_pwrd_pri is set TRUE regardless so should be oved out of the IF-	C/ 33 SC 33.2.5.12 P 96 L 27 # 291
THEN-ELSE-END statement and simply be set TRUE by this state. This would also	Stover, David Linear Technology
remove the ELSE portion of this IF-THEN-ELSE-END statement.	Comment Type T Comment Status X
SuggestedRemedy	SEMI_PWRON_PRI and SEMI_PWRON_SEC bypass POWER_DENIED, which is
Suggest that the actions in the POWER_UP state be changed to read:	inconsistent with behavior of "!power_available" out of POWER_ON state.
alt pwrd pri <= TRUE	SuggestedRemedy
IF (pse_alternative = both) * (pse_ss_mode = 1) + (pd_allocated_pwr > 4) THEN	See stover_02_0117.pdf
alt_pwrd_sec <= TRUE	Proposed Response Response Status O
END	

Pa **96** Li **27**

C 33S C 33.2.5.12P 96L 28# 299Stover, DavidLinear TechnologyStover, DavidLinear TechnologyIn "ysebood: 03, 0171 power, on state 16x, it is proposed to collapse 3" error" variables in single-signature PSE SD in are deten used toget specific "reor", see". This is a fine idea. Let's do this for dual-signature SDs in Type 3/4 PSE SD, as well.Stover, DavidC 33Segested/Terredy Replace "labor, det_off" toglon, yport_lim" with "error, pri", short, det_offReplace "labor, det_off" toglon, yport_lim" with "error, pri", short, det_offPef. L37, P06, L32, P08, L30Perform the exproprise changes for "error_see" in the following locations: P96, L32, P08, L30Pef. L38, P08, L30Perform the exproprise changes for "error_see" in the following locations: P06, L37, P10, L4P202.28, P08, L30Proposed ResponseResponse Status OComment TypeComment TypeComment TypeComment TypeT RComment TypeComment TypeStover, DavidLinear TechnologyComment TypeComment TypeComment TypeT RComment TypeResponse Status OSuggested/RemedyComment TypeChange entry arca into IDLE_PRI, IDLE_SEC.Proposed ResponseResponse Status OCl 33S 23.2.5.12P98L6L4L32.6.7.6Proposed ResponseResponse Status OCl 33 <td< th=""><th></th><th></th></td<>		
Comment Type E Comment Status X Comment Status X In 'yseboot: 0.0.0117, power_on_state_Int', it is proposed to collapses 3 'error' variables in single-signature PSE 5D that are often used together into 'error, per', 'error, sec'. This is a some in the variable ist, but not in the SD. Suggested/Remedy Replace "short_det_ph" 'loption_vport_lim' with 'error_ph" in the following locations: P96.L28; P98.L30 Perform the appropriate changes for 'error_sec' in the following locations: P96.L28; P08.L30 Partise Transmitted to the appropriate changes for 'error_sec' in the following locations: P96.L28; P08.L30 Partise Transmitted to the second se	C/ 33 SC 33.2.5.12 P 96 L 28 # 299	C/ 33 SC 33.2.5.12 P 98 L 6 # 312
In systexed: 03, 0117 power, on_state, first, its proposed to collapse 3 "error" variables in single-signature PSE 5D bit are orden used together into "error, sec". This is a fine idea. Let's do this for dual-signature SDs in Type 3/4 PSE SD, as well. In D.1, "we decided to rename pd_de_g4PD, purisec. Dytack_PType_pri/sec. SuggestedRemedy Replace "Bitor", "error, sec". This is a game to decide to rename pd_de_g4.PD, purisec. The sec. Proposed Response Perform the appropriate changes for "error_sec" in the following locations: P96.128, P98.130 Port decided to rename pd_de_g4.PT, purisec. Proposed Response Response Status O C1 33 SC 33.25.12 P 97 L4 1/202 Stover, David Linear Technology Linear Technology Scannent Type TR Comment Type TR	Stover, David Linear Technology	Yseboodt, Lennart Philips
single-signature PSE SD that are often used together into "error_pri", "error_sec". This is a fine idea. Let 's do this of ubus-lignature PSE SD that are often used together into "error_pri", "short_det_pri 's dott, get_pri 's dott, get_pri's d	Comment Type E Comment Status X	Comment Type TR Comment Status X
SuggestedRemedy SuggestedRemedy Replace "Ishon_det_phi * lovid_det_phi * lopidon_yopt_lim" with "lerror_phi", "short_det_phi SuggestedRemedy Perform the appropriate changes for *error_sec* in the following locations: P98(L37, P10L129 Proposed Response Response Status O Ci 33 SC 33.2.5.12 P97 L4 # [292] Comment Type TR Comment Status X SignestedRemedy Comment Type TR Comment Status X SignestedRemedy Change entry arc into IDLE_PRI from "iclass_lim_det_phi" to "sism * i_class_lim_det_phi". SignestedRemedy Ci 33 SC 33.2.5.12 P98 L6 # [293] Store, David Linear Technology SuggestedRemedy SuggestedRemedy Change entry arc into IDLE_PRI from "iclass_lim_det_phi" to "sism * i_class_lim_det_phi". P98 L7 # [235] Proposed Response Response Status O SuggestedRemedy SuggestedRemedy SuggestedRemedy Ci 33 SC 33.2.5.12 P98 L6 # [293] SuggestedRemedy SuggestedRemedy Comment Type TR Comment Status X Comment Status X SuggestedRemedy SuggestedRemedy SuggestedRemedy SuggestedRemedy <td< td=""><td>single-signature PSE SD that are often used together into "error_pri", "error_sec". This is a</td><td>This was done in the variable list, but not in the SD.</td></td<>	single-signature PSE SD that are often used together into "error_pri", "error_sec". This is a	This was done in the variable list, but not in the SD.
Replace "Ishort_det.ph" 1 vold_det.ph" 1 option.yport_lim" with "error_ph", "short_det.ph" Proceeding and separate or short of photometry photoes Peic_128; P98,L30 Pefform the appropriate changes for "error_sec" in the following locations: Peice Celevine and separate or short of photometry and the following locations: Proposed Response Response Status O Ci 33 SC 33.2.5.12 P97 L4 Peice Celevine and separate or short of the secondary and the so be pd_cis_APtype_pri. Stover, David Linear Technology Technology Comment Type TR Comment Status X SuggestedRemedy Change entry arcs into IDLE_PRI (form "iclass_lim_det_pri" to "sism "i_class_lim_det_pri" to "sism "i_class_lim_det_pri". Scale Celevine Status O Ci 33 SC 33.2.5.12 P98 L6 [293] Stover, David Linear Technology Scale Celevine Status X Comment Type TR Comment Status X Stover, David Linear Technology Scale Celevine Status O Ci 33 SC 33.2.5.12 P98 L6 [293] Stover, David Linear Technology Comment Type TR Comment Status X Comment Type TR Comment Status X Piferd, Jean		
P96.137; P100.129 Proposed Response Response Status O C1 33 SC 33.2.5.12 P 97 L 4 # 292 Stover, David Linear Technology Comment Status X Comment Type TR Comment Status X Asynchronous entry arcs into IDLE_PRI, IDLE_SEC states may be true when transition is not applicable, requiring SIMS Ms to be in two states (ENTRY * and IDLE_*) Stover, David SuggestedRemedy SuggestedRemedy Change entry arc into IDLE_PRI from "iclass_lim_det_pri" to "sism * i_class_lim_det_pri". Repeat change for IDLE_SEC. P 98 L 7 # 235 Protocold Response Response Status O Cl 33 SC 33.2.5.12 P 98 L 6 # 293 Stover, David Linear Technology Comment Status X Comment Type TR Comment Status X (2) 3 SC 33.2.5.12 P 98 L 6 # 293 P 102 TR Comment Status X (2) 3 SC 33.2.5.12 P 98 L 6 # 293 P 102 TR Comment Status X "pri" and "sec" have been interchanged at 2 locations in the following statement. gdi_cl_gd=Response * 102 Replace with this: (gd_cls_eec = valid) + pwr_	Replace "!short_det_pri * !ovld_det_pri * !option_vport_lim" with "!error_pri", "short_det_pri + ovld_det_pri + option_vport_lim" with "error_pri" in the following locations:	
Ci 33 SC 33.2.5.12 P97 L4 # [292] Stover, David Linear Technology Figure 33.16 CLASS_EVAL_PRI state: 1.1 d, cls. 4PID_sec doesn't exists. 2. It is primary attemative and not secondary and it has to be pd_cls_4Ptype_pri. Stover, David Linear Technology Stover, David status X Asynchronous entry arcs into IDLE_PRI, IDLE_SEC states may be true when transition is not applicable, requiring SISM SMs to be in two states (ENTRY_* and IDLE_*) 3. Scan for all primary drawings in the state machine and replace pd_cls_4PID_sec with pd_cls_4Ptype_pri. Suggested/Remedy Suggested/Remedy Change entry arc into IDLE_PRI from "iclass_lim_det_pri* to "sism * i_class_lim_det_pri*. Proposed Response Response Status O Cl 33 SC 33.2.5.12 P98 L6 # [293] Stover, David Linear Technology Texas Instruments Comment Type TR Comment Status X "pri* and "sec" have been interchanged at 2 locations in the following statement. pd_cls_4PID_sec * (sig_sec = valid) * (sig_pri = valid) + pwr_app_pri Stover, David Linear Technology Suggested/Remedy Comment Type TR Comment Status X "pri* and "sec" have been interchanged at 2 locations in the following statement. pd_cls_4PID_sec * (sig_sec = valid) + pwr_app_pri Suggested/Remedy Change condinal logic for "pd_4pair_candx=TRUE* in CLASS_EVAL_PRI? Scan Fore scanple,		
Gr 33 SC 33.2.5.12 P97 L4 # 292 Stover, David Linear Technology Linear Technology Linear Technology Comment Type TR Comment Status X Asynchronous entry arcs into IDLE_PRI IDLE_SEC states may be true when transition is not applicable, requiring SISM SMs to be in two states (ENTRY_* and IDLE_1) Lits primary alternative and not secondary and it has to be pd_cls_4PtJp_sec with pd_cls_4PtJpe_pri. SuggestedRemedy Change entry arcs into IDLE_PRI from "iclass_lim_det_pri" to "sism * i_class_lim_det_pri". Pegee L6 # 293 C/ 33 SC 33.2.5.12 P98 L6 # 293 Stover, David Linear Technology Comment Type TR Comment Status X Conditional logic for "pd_4pair_candx=TRUE" in CLASS_EVAL_PRI? 293 CLASS_EVAL_PRI Ease and the following statement. Stover, David Linear Technology Comment Type TR Comment Status X Conditional logic for "pd_4pair_candx=TRUE" in CLASS_EVAL_PRI? Let's instead make this logic symmetric to CLASS_EVAL_PRI? Explace with this: (g_cls_4PID_pri * (sig_pri = valid) + pwr_app_sec SuggestedRemedy Comment Type TR Comment Status X Conditional logic for "pd_4pair_candx=TRUE" in CLASS_EVAL_PRI? </td <td>Proposed Response Response Status O</td> <td></td>	Proposed Response Response Status O	
SuggestedRemedy Change entry arc into IDLE_PRI from "iclass_lim_det_pri" to "sism * i_class_lim_det_pri". Proposed Response Response Status O Cl 33 SC 33.2.5.12 P 98 L 6 # 293 Stover, David Linear Technology Comment Status X Conditional logic for "pd_4pair_cand<=TRUE" in CLASS_EVAL_PRI does not match 33.2.6.7. For example, do we expect "pwr_app_pri" to be true in CLASS_EVAL_PRI? Let's instead make this logic symmetric to CLASS_EVAL_SEC, which seems correct.	Stover, David Linear Technology Comment Type TR Comment Status X Asynchronous entry arcs into IDLE_PRI, IDLE_SEC states may be true when transition is not applicable, requiring SISM SMs to be in two states (ENTRY_* and IDLE_*)	 pd_cls_4PID_sec doesn't exists. It is primary alternative and not secondary and It has to be pd_cls_4Ptype_pri. Scan for all primary drawings in the state machine and replace pd_cls_4PID_sec with pd_cls_4Ptype_pri. SuggestedRemedy See above.
Change entry arc into IDLE_PRI from "iclass_lim_det_pri" to "sism * i_class_lim_det_pri". Repeat change for IDLE_SEC. Proposed Response Response Status O Cl 33 SC 33.2.5.12 P 98 L 6 Cl 33 SC 33.2.5.12 P 98 L 6 Cl 33 SC 33.2.5.12 P 98 L 6 Comment Type TR Comment Status X Conditional logic for "pd_4pair_cand<=TRUE" in CLASS_EVAL_PRI does not match 33.2.6.7. For example, do we expect "pwr_app_pri" to be true in CLASS_EVAL_PRI?	•	Proposed Response Response Status O
Cl 33 SC 33.2.5.12 P 98 L 6 # 293 Stover, David Linear Technology Comment Type TR Comment Status X Conditional logic for "pd_4pair_cand<=TRUE" in CLASS_EVAL_PRI does not match 33.2.6.7. For example, do we expect "pwr_app_pri" to be true in CLASS_EVAL_PRI? Let's instead make this logic symmetric to CLASS_EVAL_SEC, which seems correct.	Change entry arc into IDLE_PRI from "iclass_lim_det_pri" to "sism * i_class_lim_det_pri".	C/ 33 SC 33.2.5.12 P 98 L 7 # 235
Cl 33 SC 33.2.5.12 P 98 L 6 # 293 Stover, David Linear Technology Comment Type TR Comment Status X Conditional logic for "pd_4pair_cand<=TRUE" in CLASS_EVAL_PRI does not match 33.2.6.7. For example, do we expect "pwr_app_pri" to be true in CLASS_EVAL_PRI? Let's instead make this logic symmetric to CLASS_EVAL_SEC, which seems correct.	Proposed Response Response Status O	Picard, Jean Texas Instruments
Cl 33 SC 33.2.5.12 P 98 L 6 # 293 Stover, David Linear Technology Comment Type TR Comment Status X Conditional logic for "pd_4pair_cand<=TRUE" in CLASS_EVAL_PRI does not match 33.2.6.7. For example, do we expect "pwr_app_pri" to be true in CLASS_EVAL_PRI? Let's instead make this logic symmetric to CLASS_EVAL_SEC, which seems correct. SuggestedRemedy SuggestedRemedy Change condional logic for "pd_4pair_cand<=TRUE" in CLASS_EVAL_PRI: From "pd_cls_4PID_sec * (sig_sec = valid) * (sig_pri = valid) + pwr_app_pri)" To "pd_cls_4PID_pri * (sig_pri = valid) * (sig_pri = valid) + pwr_app_sec)" Proposed Response Response Status O		Comment Type TR Comment Status X
Let's instead make this logic symmetric to CLASS_EVAL_SEC, which seems correct. SuggestedRemedy Change condional logic for "pd_4pair_cand<=TRUE" in CLASS_EVAL_PRI:	Stover, David Linear Technology Comment Type TR Comment Status X Conditional logic for "pd_4pair_cand<=TRUE" in CLASS_EVAL_PRI does not match 33.2.6.7. For example, do we expect "pwr_app_pri" to be true in CLASS_EVAL_PRI?	<pre>"pri" and "sec" have been interchanged at 2 locations in the following statement. pd_cls_4PID_sec * (sig_sec = valid) * (sig_pri = valid) + pwr_app_pri SuggestedRemedy Replace with this: (pd_cls_4PID_pri * (sig_sec = valid) * (sig_pri = valid)) + pwr_app_sec</pre>
Change condional logic for "pd_4pair_cand<=TRUE" in CLASS_EVAL_PRI: From "pd_cls_4PID_sec * (sig_sec = valid) * (sig_pri = valid) + pwr_app_pri)" To "pd_cls_4PID_pri * (sig_pri = valid) * ((sig_sec = valid) + pwr_app_sec)"		Response Status
	Change condional logic for "pd_4pair_cand<=TRUE" in CLASS_EVAL_PRI: From "pd_cls_4PID_sec * (sig_sec = valid) * (sig_pri = valid) + pwr_app_pri)"	

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/ 33 SC 33.2.5.12 P 98 L 7 # 313	C/ 33 SC 33.2.5.12 P 98 L 22 # 296
/seboodt, Lennart Philips	Stover, David Linear Technology
Comment Type TR Comment Status X	Comment Type T Comment Status X
The IF statement in CLASS_EVAL_PRI seems to befuddle us nearly every cycle. The make matters worse, this Figure went from Visio to Frame during this cycle and I suspect a copy/paste mistake was made. Note: watch out for correct parenthesis !!	The definition of pwr_app_* includes the statement "A variable indicating that the PSE has begun steady state operationand is not in a current limiting mode" Then, it is redundant and noisy to include the term "(I_Port-2P-pri >= I_Inrush-2P)" in xitio logic from POWER_UP_* to ERROR_DELAY_* when we already check for "!pwr_app_*"
SuggestedRemedy	SuggestedRemedy
Replace "IF (pd_cls_4PID_sec * (sig_sec = valid) * (sig_pri = valid) + pwr_app_pri) THEN" by	Change xition logic from POWER_UP_* to ERROR_DELAY_* (3 locations) From: "tinrush_timer_*_done * (!pwr_app_* + (I_Port-2P-* >= I_Inrush-2P)) To: "tinrush_timer_*_done * !pwr_app_*"
"IF (pd_cls_4PID_pri * (sig_pri = valid) * (sig_sec = valid) + pwr_app_sec) THEN"	Proposed Response Response Status O
Proposed Response Response Status O	
	— CI 33 SC 33.2.5.12 P 98 L 27 # 297
C/33 SC 33.2.5.12 P 98 L 10 # 294	Stover, David Linear Technology
tover, David Linear Technology	Comment Type TR Comment Status X
	POWER_ON_* states are missing xition arc into ERROR_DELAY_* states.
CLASS_EVAL_PRI and CLASS_EVAL_SEC check for "_done" on their respective T_ED	POWER_ON_* states are missing xition arc into ERROR_DELAY_* states.
	51
CLASS_EVAL_PRI and CLASS_EVAL_SEC check for "_done" on their respective T_ED timers. However, ted_timer from single-signature state arcs is not checked. Implication is that PSE may error_delay/remove power from single-signature PD and power dual-	POWER_ON_* states are missing xition arc into ERROR_DELAY_* states. SuggestedRemedy Add xition arc from POWER_ON_PRI to ERROR_DELAY_PRI: "short_det_pri + ovld_det_pri + option_vport_lim"
CLASS_EVAL_PRI and CLASS_EVAL_SEC check for "_done" on their respective T_ED timers. However, ted_timer from single-signature state arcs is not checked. Implication is that PSE may error_delay/remove power from single-signature PD and power dual-signature PD before T_ED. SuggestedRemedy Change xition CLASS_EVAL_PRI to POWER_UP_PRI	POWER_ON_* states are missing xition arc into ERROR_DELAY_* states. SuggestedRemedy Add xition arc from POWER_ON_PRI to ERROR_DELAY_PRI: "short_det_pri + ovld_det_pri + option_vport_lim" Make appropriate change to POWER_ON_SEC state.
CLASS_EVAL_PRI and CLASS_EVAL_SEC check for "_done" on their respective T_ED timers. However, ted_timer from single-signature state arcs is not checked. Implication is that PSE may error_delay/remove power from single-signature PD and power dual-signature PD before T_ED. SuggestedRemedy	POWER_ON_* states are missing xition arc into ERROR_DELAY_* states. SuggestedRemedy Add xition arc from POWER_ON_PRI to ERROR_DELAY_PRI: "short_det_pri + ovld_det_pri + option_vport_lim" Make appropriate change to POWER_ON_SEC state. Replace aforementioned logic with "error_pri", "error_sec" as appropriate, if "yseboodt_03_0117_power_on_state_fix" accepted.
CLASS_EVAL_PRI and CLASS_EVAL_SEC check for "_done" on their respective T_ED timers. However, ted_timer from single-signature state arcs is not checked. Implication is that PSE may error_delay/remove power from single-signature PD and power dual- signature PD before T_ED. SuggestedRemedy Change xition CLASS_EVAL_PRI to POWER_UP_PRI From: "ted_timer_pri_done *" To "ted_timer_pri_done * ted_timer_done *" Change xition CLASS_EVAL_PRI to POWER_DENIED_PRI From: "!ted_timer_pri_done +"	POWER_ON_* states are missing xition arc into ERROR_DELAY_* states. SuggestedRemedy Add xition arc from POWER_ON_PRI to ERROR_DELAY_PRI: "short_det_pri + ovld_det_pri + option_vport_lim" Make appropriate change to POWER_ON_SEC state. Replace aforementioned logic with "error_pri", "error_sec" as appropriate, if
CLASS_EVAL_PRI and CLASS_EVAL_SEC check for "_done" on their respective T_ED timers. However, ted_timer from single-signature state arcs is not checked. Implication is that PSE may error_delay/remove power from single-signature PD and power dual- signature PD before T_ED. SuggestedRemedy Change xition CLASS_EVAL_PRI to POWER_UP_PRI From: "ted_timer_pri_done *" To "ted_timer_pri_done * ted_timer_done *"	POWER_ON_* states are missing xition arc into ERROR_DELAY_* states. SuggestedRemedy Add xition arc from POWER_ON_PRI to ERROR_DELAY_PRI: "short_det_pri + ovld_det_pri + option_vport_lim" Make appropriate change to POWER_ON_SEC state. Replace aforementioned logic with "error_pri", "error_sec" as appropriate, if "yseboodt_03_0117_power_on_state_fix" accepted.
CLASS_EVAL_PRI and CLASS_EVAL_SEC check for "_done" on their respective T_ED timers. However, ted_timer from single-signature state arcs is not checked. Implication is that PSE may error_delay/remove power from single-signature PD and power dual- signature PD before T_ED. SuggestedRemedy Change xition CLASS_EVAL_PRI to POWER_UP_PRI From: "ted_timer_pri_done *" To "ted_timer_pri_done * ted_timer_done *" Change xition CLASS_EVAL_PRI to POWER_DENIED_PRI From: "!ted_timer_pri_done * ted_timer_done *" Make appropriate changes to CLASS_EVAL_SEC.	POWER_ON_* states are missing xition arc into ERROR_DELAY_* states. SuggestedRemedy Add xition arc from POWER_ON_PRI to ERROR_DELAY_PRI: "short_det_pri + ovld_det_pri + option_vport_lim" Make appropriate change to POWER_ON_SEC state. Replace aforementioned logic with "error_pri", "error_sec" as appropriate, if "yseboodt_03_0117_power_on_state_fix" accepted. Proposed Response Response Status 0
CLASS_EVAL_PRI and CLASS_EVAL_SEC check for "_done" on their respective T_ED timers. However, ted_timer from single-signature state arcs is not checked. Implication is that PSE may error_delay/remove power from single-signature PD and power dual- signature PD before T_ED. SuggestedRemedy Change xition CLASS_EVAL_PRI to POWER_UP_PRI From: "ted_timer_pri_done *" To "ted_timer_pri_done * ted_timer_done *" Change xition CLASS_EVAL_PRI to POWER_DENIED_PRI From: "!ted_timer_pri_done + ted_timer_done *" Change xition CLASS_EVAL_PRI to POWER_DENIED_PRI From: "!ted_timer_pri_done + !ted_timer_done +" Make appropriate changes to CLASS_EVAL_SEC.	POWER_ON_* states are missing xition arc into ERROR_DELAY_* states. SuggestedRemedy Add xition arc from POWER_ON_PRI to ERROR_DELAY_PRI: "short_det_pri + ovld_det_pri + option_vport_lim" Make appropriate change to POWER_ON_SEC state. Replace aforementioned logic with "error_pri", "error_sec" as appropriate, if "yseboodt_03_0117_power_on_state_fix" accepted. Proposed Response Response Status O Cl 33 SC 33.2.5.12 P98 L 27 # 314
CLASS_EVAL_PRI and CLASS_EVAL_SEC check for "_done" on their respective T_ED timers. However, ted_timer from single-signature state arcs is not checked. Implication is that PSE may error_delay/remove power from single-signature PD and power dual- signature PD before T_ED. SuggestedRemedy Change xition CLASS_EVAL_PRI to POWER_UP_PRI From: "ted_timer_pri_done *" To "ted_timer_pri_done * ted_timer_done *" Change xition CLASS_EVAL_PRI to POWER_DENIED_PRI From: "!ted_timer_pri_done + ted_timer_done *" Make appropriate changes to CLASS_EVAL_SEC.	POWER_ON_* states are missing xition arc into ERROR_DELAY_* states. SuggestedRemedy Add xition arc from POWER_ON_PRI to ERROR_DELAY_PRI: "short_det_pri + ovld_det_pri + option_vport_lim" Make appropriate change to POWER_ON_SEC state. Replace aforementioned logic with "error_pri", "error_sec" as appropriate, if "yseboodt_03_0117_power_on_state_fix" accepted. Proposed Response Response Status O Cl 33 SC 33.2.5.12 P 98 L 27 # 314 Yseboodt, Lennart Philips Comment Type T Comment Status X Exit branch from POWER_ON_PRI to ERROR_DELAY_PRI is missing. SuggestedRemedy
CLASS_EVAL_PRI and CLASS_EVAL_SEC check for "_done" on their respective T_ED timers. However, ted_timer from single-signature state arcs is not checked. Implication is that PSE may error_delay/remove power from single-signature PD and power dual- signature PD before T_ED. SuggestedRemedy Change xition CLASS_EVAL_PRI to POWER_UP_PRI From: "ted_timer_pri_done *" To "ted_timer_pri_done * ted_timer_done *" Change xition CLASS_EVAL_PRI to POWER_DENIED_PRI From: "!ted_timer_pri_done + ted_timer_done *" Change xition CLASS_EVAL_PRI to POWER_DENIED_PRI From: "!ted_timer_pri_done + !ted_timer_done +" Make appropriate changes to CLASS_EVAL_SEC.	POWER_ON_* states are missing xition arc into ERROR_DELAY_* states. SuggestedRemedy Add xition arc from POWER_ON_PRI to ERROR_DELAY_PRI: "short_det_pri + ovld_det_pri + option_vport_lim" Make appropriate change to POWER_ON_SEC state. Replace aforementioned logic with "error_pri", "error_sec" as appropriate, if "yseboodt_03_0117_power_on_state_fix" accepted. Proposed Response Response Status O Cl 33 SC 33.2.5.12 P 98 L 27 # 314 Yseboodt, Lennart Philips Comment Type T Comment Status X Exit branch from POWER_ON_PRI to ERROR_DELAY_PRI is missing.

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C/ 33 SC 33.2.5.12 P 98 L 28 # 230 Picard, Jean Texas Instruments	C/ 33 SC 33.2.5.12 P 100 L 6 # 84 Darshan, Yair Mirosemi
comment Type TR Comment Status X There is a missing link from POWER_ON_PRI to ERROR_DELAY_PRI block uggestedRemedy	Comment Type TR Comment Status X Figure 33-16 CLASS_EVAL_PRI state: The logic of "(pd_cls_4PID_sec * (sig_sec = valid) * ((sig_pri = valid) + pwr_app_pri))" is incorrect. There is redundant parenthesis at the end. It should be the same construct as i
Put back the link between POWER_ON_PRI and ERROR_DELAY_PRI. The condition is short_det_pri + ovId_det_pri + option_vport_lim	the primary.
Proposed Response Response Status O	SuggestedRemedy Change to: "(pd_cls_4PID_sec * (sig_sec = valid) * ((sig_pri = valid) + pwr_app_pri)"
	Proposed Response Response Status O
C/ 33 SC 33.2.5.12 P 98 L 43 # 298 Stover, David Linear Technology	C/ 33 SC 33.2.5.12 P 100 L 8 # 85
Comment Type E Comment Status X	C/ 33 SC 33.2.5.12 P 100 L 8 # 85 Darshan, Yair Mirosemi
New to Frame-based dual-signature POWER_ON figures: Strange transition arrows into IDLE_PRI and IDLE_SEC pointers. For example, some transitions are missing an arrowhead. SuggestedRemedy Revise transition arrows into IDLE_PRI, IDLE_SEC, to reflect pre-Frame formatting.	Comment Type TR Comment Status X Figure 33-16 CLASS_EVAL_PRI state: 1. pd_cls_4PID_sec doesn't exists. It has to be pd_cls_4Ptype_sec. 3. Scan for all secondary drawings in the state machine and replace pd_cls_4PID_sec w pd_cls_4Ptype_sec.
See, for example, SEMI_PWRON_* arcs for an example of how arcs connect.	
Proposed Response Response Status O	SuggestedRemedy See above.
Cl 33 SC 33.2.5.12 P 100 L 6 # 233 Picard, Jean Texas Instruments	Proposed Response Response Status O
Comment Type TR Comment Status X Parenthesis is at wrong location in the CLASS_EVAL_SEC block for following equation.	Cl 33 SC 33.2.5.12 P 100 L 27 # 315 Yseboodt, Lennart Philips
IF (pd_cls_4PID_sec * (sig_sec = valid) * ((sig_pri = valid) + pwr_app_pri)) The first condition is applicable if the PSE does parallel detection and uses the 3-finger	Comment Type T Comment Status X Exit branch from POWER_ON_SEC to ERROR_DELAY_SEC is missing.
method to determine if 4P capable; in this case, both signatures must show valid.	SuggestedRemedy
The second condition is applicable if the PSE does staggered detection; if sec is already powered, it becomes obvious that it is 4P capable since we cannot reach the	Add branch as shown in draft 2.1 to figure 33-17
CLASS_EVAL_PRI unless the pri signature is valid too.	Proposed Response Response Status O
SuggestedRemedy Replace with this: IF ((pd_cls_4PID_sec * (sig_sec = valid) * (sig_pri = valid)) + pwr_app_pri)	
Proposed Response Response Status O	

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C/ 33 SC 33.2.5.12		L 28	# 231	CI 33	SC 33.2.5.12	-	<i>L</i> 1	# 164
Picard, Jean	Texas Instrum	ients		Law, David		HPE		
Comment Type TR	Comment Status X from POWER ON SEC to E		SEC block	Comment T	51	Comment Status X	rown in a conor	oto diagram in Figura
There is a missing link	IIOIII POWER_ON_SEC IO E	RROR_DELAT	_SEC DIOCK			clause 33.2.5, the single-sig		
SuggestedRemedy						s identified as single-signatu		
	en POWER_ON_SEC and E det_sec + option_vport_lim	RROR_DELAY	_SEC. The condition is			on that could be omitted dep		
Proposed Response	Response Status 0					gure 33–15 has a transition m (page 94, line 17) and if fo		
				subclar	use 33.2.5 due t	o a single-signature PD resu	Its in no states	in the Figure 33–15
C/ 33 SC 33.2.5.12	P 100	L 37	# 000			level PSE state diagram bei		
Picard, Jean	Texas Instrum	• •	# 232			S_EVAL and IDLE which are state that is active.	n't part of that s	state diagram, and for
Comment Type TR	Comment Status X			Based	on this Figure 3	3–18 is just a collection of re	lated states ext	racted from Figure
sec has been interchar	nged with pri in the exit condit	ion of ERROR_	DELAY_SEC block			e part of Figure 33–15, and r		
SuggestedRemedy				Suggested	Remedy			
Replace "ted_timer_pr with this:	_done + option_detect_ted_p	ori"		Sugge	st that			
	option_detect_ted_sec			[1] Figu	ıre 33-18 is mov	ed to immediately after Figur	re 33-15.	
Proposed Response	Response Status O				title of Figure 3 ate diagram (co	3-18 be changed to 'Figure 3 ntinued)'.	3–15—Type 3 a	and Type 4 top level
				[3] The	fourth paragrap	h of subclause 33.2.5.1.1 be	deleted.	
						e 33–13, Figure 33–18, Figur gure 33–13, Figure 33–15, F		
				Proposed I	Response	Response Status O		

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C/ 33 SC 33.2.5.1		L 22	# 82		C 33.2.6.4	P 108	L 39	# 86
Darshan, Yair	Mirosemi			Darshan, Yair		Mirosemi		
omment Type TR	Comment Status X			Comment Type	TR	Comment Status X		
(TDL for comment #1 The PSE state machi class code by issuing which it need to gene This is covered by the uggestedRemedy	ine part for single signature (g 3 finger and then doing class trate only one finger etc. is m e text but not in the state ma ne missing state machine pa ne TDL. <i>Response Status</i> O	ss reset due to lak hissing. chine.	ke of sufficient power in	The text: "In termination prevent det <i>SuggestedRem</i> Option 1 (p "In a Type 7 isolation the affect the e Type 3 and isolation the affect the e Option 2:	n a multiport circuitry to (ection signal edy referred): 1 and Type 2 rough the tel quivalent sig Type 4 PSE ough the tel quivalent sig	system, the implementer sh eliminate cross-port leakage ture pollution due to cross-port 2 PSES, in a multiport system mination circuitry to eliminat gnature resistor value of the l Es , in a multiport system, the rmination circuitry to eliminat gnature resistor value of the l	currents." is not ort leakage curre m, the implemen te cross-port leal PD as seen by th e implementer sl te cross-port leal PD as seen by th	sufficiently clear to ents. ter should maintain Do cage currents that will ne PSE." nall maintain DC cage currents that will ne PSE."
"Type 3 and Type 4 P connection check pric	Comment Status X PSEs that will deliver power of or to the classification of a P	D as specified in 3	33.2.7. During	termination signature re	circuitry to esistor value	the implementer should mair eliminate cross-port leakage of the PD as seen by the PS	currents that wil	
"Type 3 and Type 4 P connection check pric connection check, the signature PD configur	Comment Status X PSEs that will deliver power of or to the classification of a P e PSE shall determine if both ration, a dual-signature PD of	D as specified in 3 n pairsets are con configuration, or be	33.2.7. During nected to a single-	termination	circuitry to esistor value	eliminate cross-port leakage	currents that wil	
"Type 3 and Type 4 P connection check pric connection check, the signature PD configur These are two very si	Comment Status X PSEs that will deliver power of or to the classification of a P e PSE shall determine if both	D as specified in 3 n pairsets are con configuration, or be	33.2.7. During nected to a single-	termination signature re Proposed Resp	circuitry to esistor value	eliminate cross-port leakage of the PD as seen by the PS	currents that wil	
"Type 3 and Type 4 P connection check pric connection check, the signature PD configur These are two very si uggestedRemedy	Comment Status X PSEs that will deliver power of or to the classification of a P e PSE shall determine if both ration, a dual-signature PD of imilar shalls that can easily b	D as specified in 3 n pairsets are con configuration, or b be merged.	33.2.7. During nected to a single- oth pairsets are invalid."	termination signature re Proposed Resp	circuitry to e esistor value	eliminate cross-port leakage of the PD as seen by the PS <i>Response Status</i> O	currents that wil SE."	l affect the equivalent
"Type 3 and Type 4 P connection check pric connection check, the signature PD configur These are two very si SuggestedRemedy "Type 3 and Type 4 P connection check pric both pairsets are com	Comment Status X PSEs that will deliver power of or to the classification of a P e PSE shall determine if both ration, a dual-signature PD of imilar shalls that can easily b PSEs that will deliver power of or to the classification of a P nected to a single-signature	D as specified in 3 n pairsets are con configuration, or b be merged. On both pairsets s D as specified in 3	33.2.7. During nected to a single- oth pairsets are invalid." hall complete a 33.2.7 to determine if	termination signature re <i>Proposed Resp</i> <i>Cl</i> 33 St Chabot, Craig <i>Comment Type</i>	circuitry to o esistor value onse C 33.2.6.7 E	eliminate cross-port leakage of the PD as seen by the PS <i>Response Status</i> 0 <i>P</i> 109	currents that wil SE."	I affect the equivalent
"Type 3 and Type 4 P connection check pric connection check, the signature PD configur These are two very si <i>tuggestedRemedy</i> "Type 3 and Type 4 P connection check pric	Comment Status X PSEs that will deliver power of or to the classification of a P e PSE shall determine if both ration, a dual-signature PD of imilar shalls that can easily b PSEs that will deliver power of or to the classification of a P nected to a single-signature	D as specified in 3 n pairsets are con configuration, or b be merged. On both pairsets s D as specified in 3	33.2.7. During nected to a single- oth pairsets are invalid." hall complete a 33.2.7 to determine if	termination signature re Proposed Resp Cl 33 St Chabot, Craig Comment Type New PIC er SuggestedRem Add New P Item: PSE3 Feature: Ap Subclause: Value/Com	circuitry to o esistor value onse C 33.2.6.7 E htry needed edy IC Entry: .7a oply 4-pair po 33.2.6.7 ment: Only is e of the lette	eliminate cross-port leakage of the PD as seen by the PS <i>Response Status</i> 0 <i>P</i> 109 UNH-IOL <i>Comment Status</i> X related to this Shall	currents that wil SE." <i>L</i> 33 has been detect	affect the equivalent

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Pa **109** Li **33**

C/ 33 SC 33.2.7 P 110 L 6 # 119 Johnson, Peter Sifos Technologies	C/ 33 SC 33.2.7 P 110 L 52 # 317 Yseboodt, Lennart Philips
Comment Type T Comment Status X The phrase	Comment Type E Comment Status X Missing comma before "as defined in Table 33-27"
"when the PSE asserts a voltage in the range of VClass as defined in Table 33–16 onto one or both pairset."	SuggestedRemedy Fix.
reads like any PSE can classify on both pairsets. Obviously, that is not true.	Proposed Response Response Status O
SuggestedRemedy	
Change to:	C/ 33 SC 33.2.7 P 111 L 1 # 318
"when the PSE asserts a voltage in	Yseboodt, Lennart Philips
the range of VClass as defined in Table 33–16 onto a pairset."	Comment Type TR Comment Status X
 4-pair PSE's classifying single signature PD's must assert Vclass on "a pairset" and could redundantly do this on both pairsets. 4-Pair PSE's classifying dual siganture PD's must evaluate class per pairset. Proposed Response Response Status O 	"If the PD connected to the PSE performs Autoclass (see 33.2.7.3 and 33.3.6.3), the PSE may set its minimum supported output power based on P Autoclass , the power drawn during Autoclass measurement window, increased by at least the margin P ac_margin calculated from the measured power by Equation (33-4), in order to account for potential increase in channel resistance due to temperature increase, with a maximum value defined in Table 33-13 of the Class assigned to the PD and a minimum of 4.0 Watt."
C/ 33 SC 33.2.7 P 110 L 14 # 120 Johnson, Peter Sifos Technologies Sifos Technologies	Autoclass is optional, however when it is implemented is must follow the minimum and maxima of that sentence. A shall is missing.
Comment Type ER Comment Status X	SuggestedRemedy
Following text intermixes general PSE behavior with Type-3/4 specific behavior: "The assigned Class is the result of the PD's requested Class and the number of class events produced by the PSE as shown in Table 33–13. See 33.3.6 for PD classification behavior. When a single-signature PD requests a higher Class than a Type 3 or Type 4 PSE can support" Suggest breaking this into two paragraphs.	"If the PD connected to the PSE performs Autoclass (see 33.2.7.3 and 33.3.6.3), the PSE may set its minimum supported output power based on P Autoclass , the power drawn during Autoclass measurement window. PAutoclass shall be increased by at least P ac_margin calculated from the measured power by Equation (33-4), in order to account for potential increase in channel resistance due to temperature increase, up to the value defined in Table 33-13 of the Class assigned to the PD, and with a minimum power allocation of Class 1. PSEs that have additional information about the actual channel DC resistance or temperature conditions may choose to use a lower Autoclass margin than that defined by Equation (33-4)."
SuggestedRemedy	Proposed Response Response Status O
Suggest breaking this into two paragraphs:	

"The assigned Class is the result of the PD's requested Class and the number of class events produced by the PSE as shown in Table 33–13. See 33.3.6 for PD classification behavior.

When a single-signature PD requests a higher Class than a Type 3 or Type 4 PSE can support..."

Proposed Response Response Status **0**

Pa **111** Li **1**

C/ 44 SC 33.2.7 P 112 L 3 # 121	Cl 33 SC 33.2.7 P 112 L 14 # 320
ohnson, Peter Sifos Technologies	Yseboodt, Lennart Philips
Comment Type T Comment Status X	Comment Type ER Comment Status X
Table 33-13 is titled inappropriately.	Table 33-13, several rows can be merged now. Goal is to have only a single occurance t each Assigned Class.
"Table 33–13—Physical Layer power classifications for single-signature PDs (PClass)"	For Type 1/2:
The table now applies to all PD's / PSE's including Type 1, Type 2 PSE's that know nothing of "single signature".	Row 3 1 3 and 4 1 3 can be merged
uggestedRemedy	For Type 3/4 connected to single-signature. The rows with requested Class 0 and "3 to 8" can be merged into the "3 to 8".
Re-title as:	SuggestedRemedy
"Table 33–13—Physical Layer power classifications"	Type 1/2 - Merge row 3 1 3 and 4 1 3 into "3, 4" 1 3
Also, suggest adding the footnote designations to Table 33-13 headings:	Type 3/4 Single sig
Number of PSE class events (3)	- Merge row 0 1 3 and "3 to 8" 1 3 into "0, 3 to 8" 1 3
PClass (1) PClass-2P (2)	Proposed Response Response Status O
Proposed Response Response Status O	CI 33 SC 33.2.7 P 112 L 16 # 321
	Yseboodt, Lennart Philips
C/ 33 SC 33.2.7 P 112 L 4 # 319	Comment Type TR Comment Status X
/seboodt, Lennart Philips	Table 33-13, Type 1/Type 2, Request=4, Class events=1 claims the assigned Class is 3 This should be 0 per legacy text.
Comment Type E Comment Status X header "Table 33-13Physical Layer power classifications for single-signature PDs	SuggestedRemedy
(PClass)" is not only containing PClass anymore.	Change 3 to 0 for Assigned Class the row "4 / 1 / 3 / 15.4W"
SuggestedRemedy	Proposed Response Response Status O
Change to:	
"Table 33-13Physical Layer PD classifications"	Cl 33 SC 33.2.7 P112 L 44 # 322
Proposed Response Response Status O	Yseboodt, Lennart Philips
	Comment Type E Comment Status X
	The notes below Table 33-13 are not aligned with the Table boundary.
	SuggestedRemedy Change the cell left/right margin to zero for the note cell.
	Proposed Response Response Status O

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/generalPa112COMMENT STATUS: D/dispatched A/accepted R/rejectedRESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawnLi44SORT ORDER: Page, Line

Pa **112** Li **44** Page 32 of 101 12/19/2016 11:30:14 A

CI 33	SC 33.	.2.7	P 113	L 5	# 131	Cl 33 SC 33.2.7 P 113 L 10 # 122
Jones, Ch	ad		Cisco			Johnson, Peter Sifos Technologies
Comment	Туре Е	R	Comment Status X			Comment Type T Comment Status X
"Data The pr	roblem is t	r classifi his sent	cation takes precedence ence leaves the max allow	wed power open	to interpretation. There	Table 33-14 seems a bit redundant. It has two columns for PSEAllocatePowerValue and two additionally columns for PSEAllocatedPowerValue_mode(M). All of the relationships are the same for the dual signature case.
			on - the text has to state intend the standard to sa		ad that sentence and tel	SuggestedRemedy
Suggested chang	Remedy			,-		Column 1 could be "PSEAllocatedPowerValue or PSEAllocatedPowerValue_mode(m)" and a footnote added "PSEAllocatedPowerValue_mode(m) can only take on values for Assigned Class 1 through 5."
Data L less th	ink Layer	al to the	ation takes precedence o power the PSE is capabl			Proposed Response Response Status O
Proposed	Response		Response Status O			C/ 33 SC 33.2.7 P 113 L 10 # 324
						Yseboodt, Lennart Philips
CI 33	SC 33.	.2.7	P 113	L 9	# 323	Comment Type E Comment Status X
Yseboodt,	Lennart		Philips			"Assigned Class" header in column for dual-signature is the same name as column 2.
Comment	Туре Е		Comment Status X			Can cause confusion. It would also be better to make single/dual signature explicit.
			clear that the first two colu	mns are for sing	le-signature and the	Suggested Remedy
			or dual-signature. ass for dual-sign. more ex	olicit.		Change to:
Suggested		0	U			"Assigned Class for Mode M"
Add ro	ow on top v		fields, first cell is named named "dual-signature" a			Add row on top with two cells, first cell "single-signature" and spans first two columns, second cell "dual-signature" and spans final two columns.
Add "f	or Mode N	1" to "As	signed Class" for dual-sig	inature.		Proposed Response Response Status O
Proposed			Response Status 0			
	·		• -			C/ 33 SC 33.2.7 P 113 L 19 # 339
						Yseboodt, Lennart Philips
						Comment Type T Comment Status X
						PSEAllocatedPowerValue_mode(M) has field "256 to 400" has to limited range. This should be 999 divided by 2, thus 499
						SuggestedRemedy
						Change to "256 to 499"
						Proposed Response Response Status O

Pa **113** Li **19**

Jones, Chad	P 113 Cisco	L 50	# 132	C/ 33 SC 33.2.7. Chabot, Craig	2 P 115 UNH-IOL	L 20	# 29
Comment Type ER	Comment Status X			Comment Type E	Comment Status X		
	In 47) applies to only Type 3			New PIC entry need	ed related to this Shall		
"When connected to a each pairset independ	dual-signature PD, the PSE a	shall treat the ree	quested power over	SuggestedRemedy			
Seems the PICS edito	or got it right that this only app	lies to Type 3 an	d 4 PSEs. Need to	Add New PIC Entry:			
make the text reflect the	his. es only when operating in 4P ı	mode		Item: PSE59a Feature: Class even	ts for Type 1 and Type 2 PSEs		
SuggestedRemedy		nioue.		Subclause: 33.2.7.2			
,	nected to a dual-signature PD	the Type 3 PSI	- operating over 4-pairs	Value/Comment: Iss Status: PSET1:M PS	ue no more than the class they	are capable of	supporting
	eat the requested power over			Proposed Response	Response Status O		
Proposed Response	Response Status O			T Toposed Nesponse			
				C/ 33 SC 33.2.7.	2 P 115	L 20	# 134
C/ 33 SC 33.2.7.1	P 114	L 8	# 133	Jones, Chad	Cisco		
ones, Chad	Cisco			Comment Type TR	Comment Status X		
Comment Type ER	Comment Status X es: "Polarity shall be the same	a as defined for)	/Port_PSE_2P in		PSEs shall issue no more class		
Fage 110, line 10 stat	es. Fulanty shall be the same	e as defined for		capable of supportin	g". There is no PICS associate	a with this shall.	•
	cifications shall be as defined	in Table 33-16.'	•	0	-		
33.2.4 and timing spec Page 114, line 8 states	s: "Polarity shall be the same	as defined for V	Port_PSE-2P in 33.2.4	SuggestedRemedy	7 2 2		
33.2.4 and timing spec Page 114, line 8 states and timing specificatio	s: "Polarity shall be the same ons shall be as defined by Tpd	as defined for V Ic in Table 33–16	Port_PSE-2P in 33.2.4 5."	add new PICS to 33.			
33.2.4 and timing spec Page 114, line 8 states and timing specificatio	s: "Polarity shall be the same ons shall be as defined by Tpd ctually four). Also leads to two	as defined for V Ic in Table 33–16	Port_PSE-2P in 33.2.4 5."	,	.7.3.2 Response Status O		
33.2.4 and timing spec Page 114, line 8 states and timing specificatio Two identical shalls (a 41) and 33.2.7.1 (PSE	s: "Polarity shall be the same ons shall be as defined by Tpd ctually four). Also leads to two	as defined for V Ic in Table 33–16	Port_PSE-2P in 33.2.4 5."	add new PICS to 33.			
33.2.4 and timing spec Page 114, line 8 states and timing specificatio Two identical shalls (a 41) and 33.2.7.1 (PSE SuggestedRemedy	s: "Polarity shall be the same ons shall be as defined by Tpd ctually four). Also leads to two	as defined for V lc in Table 33–16 o pairs identical I	Port_PSE-2P in 33.2.4 5."	add new PICS to 33.		L 20	# 341
33.2.4 and timing spec Page 114, line 8 states and timing specificatio Two identical shalls (a 41) and 33.2.7.1 (PSE SuggestedRemedy delete the shall on page	s: "Polarity shall be the same ons shall be as defined by Tpd ictually four). Also leads to two 50, 51)	as defined for V lc in Table 33–16 o pairs identical I	Port_PSE-2P in 33.2.4 5."	add new PICS to 33. Proposed Response	Response Status O	L 20	# 341
33.2.4 and timing spec Page 114, line 8 states and timing specificatio Two identical shalls (a 41) and 33.2.7.1 (PSE SuggestedRemedy	s: "Polarity shall be the same ons shall be as defined by Tpd ictually four). Also leads to two (50, 51) ge 114 line 8, delete PSE50, c	as defined for V lc in Table 33–16 o pairs identical I	Port_PSE-2P in 33.2.4 5."	add new PICS to 33. Proposed Response	Response Status 0 P 115	L 20	# <u>341</u>
33.2.4 and timing spec Page 114, line 8 states and timing specificatio Two identical shalls (a 41) and 33.2.7.1 (PSE SuggestedRemedy delete the shall on page Proposed Response	s: "Polarity shall be the same ons shall be as defined by Tpd (ctually four). Also leads to two (50, 51) ge 114 line 8, delete PSE50, o <i>Response Status</i> O <i>P</i> 115	as defined for V lc in Table 33–16 o pairs identical I	Port_PSE-2P in 33.2.4 5."	add new PICS to 33. Proposed Response CI 33 SC 33.2.7 Yseboodt, Lennart Comment Type TR	Response Status 0 P 115 Philips Comment Status X PSEs shall issue no more class	-	L
33.2.4 and timing spec Page 114, line 8 states and timing specificatio Two identical shalls (a 41) and 33.2.7.1 (PSE SuggestedRemedy delete the shall on page Proposed Response	s: "Polarity shall be the same ons shall be as defined by Tpd ictually four). Also leads to two (50, 51) ge 114 line 8, delete PSE50, o <i>Response Status</i> O <i>P</i> 115 Philips	as defined for V lc in Table 33–16 o pairs identical I delete PSE51.	Port_PSE-2P in 33.2.4 5." PICS in 33.2.7 (PSE40,	add new PICS to 33. Proposed Response CI 33 SC 33.2.7 Yseboodt, Lennart Comment Type TR "Type 1 and Type 2 capable of supportin	Response Status O P 115 Philips Comment Status X PSEs shall issue no more class g."	s events than th	L
33.2.4 and timing spec Page 114, line 8 states and timing specificatio Two identical shalls (a 41) and 33.2.7.1 (PSE SuggestedRemedy delete the shall on page Proposed Response	s: "Polarity shall be the same ons shall be as defined by Tpd ictually four). Also leads to two (50, 51) ge 114 line 8, delete PSE50, o <i>Response Status</i> O <i>P</i> 115 <i>Philips</i> <i>Comment Status</i> X	as defined for V lc in Table 33–16 o pairs identical I delete PSE51.	Port_PSE-2P in 33.2.4 5." PICS in 33.2.7 (PSE40, # 340	add new PICS to 33. Proposed Response Cl 33 SC 33.2.7 Yseboodt, Lennart Comment Type TR "Type 1 and Type 2 capable of supportin This is a new require Since this behavior is	Response Status 0 P 115 Philips Comment Status X PSEs shall issue no more class	s events than th and Type 2.	e Class they are
33.2.4 and timing spec Page 114, line 8 states and timing specificatio Two identical shalls (a 41) and 33.2.7.1 (PSE SuggestedRemedy delete the shall on page Proposed Response C/ 33 SC 33.2.7.2 (seboodt, Lennart Comment Type E "Type 3 and Type 4 PS	s: "Polarity shall be the same ons shall be as defined by Tpd ictually four). Also leads to two (50, 51) ge 114 line 8, delete PSE50, o <i>Response Status</i> O <i>P</i> 115 Philips	as defined for V lc in Table 33–16 o pairs identical I delete PSE51.	Port_PSE-2P in 33.2.4 5." PICS in 33.2.7 (PSE40, # 340	add new PICS to 33. Proposed Response CI 33 SC 33.2.7 Yseboodt, Lennart Comment Type TR "Type 1 and Type 2 capable of supportin This is a new require Since this behavior is this shall.	Response Status 0 P 115 Philips Comment Status X PSEs shall issue no more class g." ement (+ new PICS) for Type 1	s events than th and Type 2.	e Class they are
33.2.4 and timing spec Page 114, line 8 states and timing specificatio Two identical shalls (a 41) and 33.2.7.1 (PSE SuggestedRemedy delete the shall on page Proposed Response C/ 33 SC 33.2.7.2 (seboodt, Lennart Comment Type E "Type 3 and Type 4 PS available power allows	s: "Polarity shall be the same ons shall be as defined by Tpd ictually four). Also leads to two (50, 51) ge 114 line 8, delete PSE50, o <i>Response Status</i> O <i>P</i> 115 Philips <i>Comment Status</i> X SEs that require more class e	as defined for V lc in Table 33–16 o pairs identical I delete PSE51.	Port_PSE-2P in 33.2.4 5." PICS in 33.2.7 (PSE40, # 340	add new PICS to 33. Proposed Response Cl 33 SC 33.2.7 Yseboodt, Lennart Comment Type TR "Type 1 and Type 2 capable of supportin This is a new require Since this behavior is	Response Status 0 P 115 Philips Comment Status X PSEs shall issue no more class g." ement (+ new PICS) for Type 1 s already guaranteed by the leg	s events than th and Type 2.	e Class they are
33.2.4 and timing spec Page 114, line 8 states and timing specificatio Two identical shalls (a 41) and 33.2.7.1 (PSE SuggestedRemedy delete the shall on page Proposed Response Cl 33 SC 33.2.7.2 (seboodt, Lennart Comment Type E "Type 3 and Type 4 PS available power allows Use comma after "allo	s: "Polarity shall be the same ons shall be as defined by Tpd ictually four). Also leads to two (50, 51) ge 114 line 8, delete PSE50, o <i>Response Status</i> O <i>P</i> 115 <i>Philips</i> <i>Comment Status</i> X SEs that require more class e s may issue a class reset even	as defined for V lc in Table 33–16 o pairs identical I delete PSE51.	Port_PSE-2P in 33.2.4 5." PICS in 33.2.7 (PSE40, # 340	add new PICS to 33. Proposed Response CI 33 SC 33.2.7 Yseboodt, Lennart Comment Type TR "Type 1 and Type 2 capable of supportin This is a new require Since this behavior is this shall. SuggestedRemedy	Response Status 0 P 115 Philips Comment Status X PSEs shall issue no more class g." ement (+ new PICS) for Type 1 s already guaranteed by the leg	s events than th and Type 2.	e Class they are
33.2.4 and timing spec Page 114, line 8 states and timing specificatio Two identical shalls (a 41) and 33.2.7.1 (PSE SuggestedRemedy delete the shall on page Proposed Response Cl 33 SC 33.2.7.2 Yseboodt, Lennart Comment Type E "Type 3 and Type 4 PS available power allows	s: "Polarity shall be the same ons shall be as defined by Tpd ictually four). Also leads to two (50, 51) ge 114 line 8, delete PSE50, o <i>Response Status</i> O <i>P</i> 115 <i>Philips</i> <i>Comment Status</i> X SEs that require more class e s may issue a class reset even	as defined for V lc in Table 33–16 o pairs identical I delete PSE51.	Port_PSE-2P in 33.2.4 5." PICS in 33.2.7 (PSE40, # 340	add new PICS to 33. Proposed Response CI 33 SC 33.2.7 Yseboodt, Lennart Comment Type TR "Type 1 and Type 2 capable of supportin This is a new require Since this behavior is this shall. SuggestedRemedy Remove quoted text	Response Status 0 P 115 Philips Comment Status X PSEs shall issue no more class g." ement (+ new PICS) for Type 1 s already guaranteed by the leg	s events than th and Type 2.	e Class they are
33.2.4 and timing spec Page 114, line 8 states and timing specificatio Two identical shalls (a 41) and 33.2.7.1 (PSE SuggestedRemedy delete the shall on page Proposed Response C/ 33 SC 33.2.7.2 (seboodt, Lennart Comment Type E "Type 3 and Type 4 PS available power allows Use comma after "allo SuggestedRemedy	s: "Polarity shall be the same ons shall be as defined by Tpd ictually four). Also leads to two (50, 51) ge 114 line 8, delete PSE50, o <i>Response Status</i> O <i>P</i> 115 <i>Philips</i> <i>Comment Status</i> X SEs that require more class e s may issue a class reset even	as defined for V lc in Table 33–16 o pairs identical I delete PSE51.	Port_PSE-2P in 33.2.4 5." PICS in 33.2.7 (PSE40, # 340	add new PICS to 33. Proposed Response CI 33 SC 33.2.7 Yseboodt, Lennart Comment Type TR "Type 1 and Type 2 capable of supportin This is a new require Since this behavior is this shall. SuggestedRemedy Remove quoted text	Response Status 0 P 115 Philips Comment Status X PSEs shall issue no more class g." ement (+ new PICS) for Type 1 s already guaranteed by the leg	s events than th and Type 2.	e Class they are

12/19/2016 11:30:14 A

TTLE. The chine a required Enveditorial required Or gener	a required Theorinical Ereditorial Orgeneral	
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	Li 20
SORT ORDER: Page, Line		

C/ 33 SC 33.2.7.2 Chabot, Craig	<i>P</i> 115 UNH-IOL	L 21	# 30	CI 33 SC 33.2.7.2 P 115 L 22 # 342 Yseboodt, Lennart Philips
Comment Type E	Comment Status X			Comment Type T Comment Status X
New PIC entry needed				"Type 3 and Type 4 PSEs shall issue no more class events than the Class they are
SuggestedRemedy				capable of supporting between the most recent time VPSE was at VReset for at least TReset and a transition to any of the power up states."
Add New PIC Entry: Item: PSE59b				"at VReset" is not the usual way to refer to this.
Feature: Class events Subclause: 33.2.7.2	for Type 3 and Type 4 PSEs			SuggestedRemedy
Value/Comment: Issue	e no more than the class they E was at VReset for at least T T4:M			Change to: "Type 3 and Type 4 PSEs shall issue no more class events than the Class they are capable of supporting between the most recent time VPSE was in the range of VReset for at least TReset and a transition to any of the power up states."
Proposed Response	Response Status O			Proposed Response Response Status O
CI 33 SC 33.2.7.2	P 115	L 21	# 135	C/ 33 SC 33.2.7.3 P117 L17 # 446
Jones, Chad	Cisco			Zimmerman, George CME Consulting, Aqua
Comment Type TR	Comment Status X			Comment Type TR Comment Status X
TReset and a transitio with this shall.	21 between the most recent t n to any of the power up 22 s			permission to implement autoclass ("may implement"), whereas the (text deleted from draft 2.1 to 2.2) in line 27 make measuring Pautoclass mandatory for a PSE when connected to a PD which requests it. "shall measure when pd_autoclass is TRUE" SuggestedRemedy
SuggestedRemedy add new PICS to 33.7	.3.2			Reinstate "If the PSE implements Autoclass" (line 27) or change the "may implement an extension" (line 23) to "shall implement"
Proposed Response	Response Status O			Proposed Response Response Status O
				C/ 33 SC 33.2.8 P 118 L 24 # 343
				Comment Type ER Comment Status X
				Table 33-18 Both the construction "per the assigned Class" and "per the Class assigned to the PD" are in use. Good, we`re down to two.
				SuggestedRemedy
				Replace all of these by "per the assigned Class" in Table 33-18.
				Proposed Response Response Status O
TYPE: TR/technical require	ed ER/editorial required GR/	general required	T/technical E/editorial G	/general <i>Pa</i> 118 Page 35 of 101
	spatched A/accepted R/reje			written C/closed U/unsatisfied Z/withdrawn Li 24 12/19/2016 11:3

14 A

C/ 33 SC 33.2.8	P 118	L 36	# 344	C/ 33 SC 33.2.8	P 120	L 7	# 346
rseboodt, Lennart	Philips			Yseboodt, Lennart	Philips		
Comment Type E Table 33-18, item 4, Rip _l So sad.	Comment Status X ple and Noise has no Symb	ol name.		Comment Type TR Comme Table 33-18, item 12, TLIM-2P. Change to legacy requirement.	ent Status X		
SuggestedRemedy				We have changed TLIM 2D into a	Class dependent		
Name it V_Noise				We have changed TLIM-2P into a Whereas in the 2015 spec, a Type	e 2 PSE has a mir	nimum of 10ms	regardless of Class,
Proposed Response	Response Status 0			now it must support 50ms minimu	im of it assigns Cla	ass 0-3.	
				SuggestedRemedy			
33 SC 33.2.8	P 118	L 44	# 2	Do we break anything if we turn th	nis into a Type bas	sed parameter ?	TFTD.
pramson, David	Texas Instrum		" 2	Change to:			
omment Type T	Comment Status X			Parameter "Short circuit time limit Symbol <unchanged></unchanged>	per pairset"		
Table 33-18, Item 5. Va on VPSE. I have calculated the pov	lues for Class 5-8 should de wer constants for my sugge and the Icon-2p-unb values	sted remedy usi	ng the worst case	Unit <unchanged> Min: 50.0 for PSE Type 1 10.0 for PSE Type 2, 3</unchanged>			
				6.0 for PSE Type 4			
uggestedRemedy Replace the values for It	em 5 as follows:			Max: <unchanged> Add info: <unchanged></unchanged></unchanged>			
	s with 27.5/VPSE with 34.1/VPSE with 40.4/VPSE			Add info: <unchanged></unchanged>	se Status O	L7	# 87
Replace the values for It Class 0 to 4: Leave as is Class 5: Replace 0.550 Class 6: Replace 0.682 Class 7: Replace 0.777 Class 8: Replace 0.925	s with 27.5/VPSE with 34.1/VPSE with 40.4/VPSE with 48.1/VPSE			Add info: <unchanged> Proposed Response Respons</unchanged>		L 7	# <u>87</u>
Replace the values for It Class 0 to 4: Leave as is Class 5: Replace 0.550 Class 6: Replace 0.682 Class 7: Replace 0.777 Class 8: Replace 0.925	s with 27.5/VPSE with 34.1/VPSE with 40.4/VPSE			Add info: <unchanged> Proposed Response Respons Cl 33 SC 33.2.8 Darshan, Yair</unchanged>	P 120	L 7	# 87
Replace the values for ItClass 0 to 4: Leave as itClass 5: Replace 0.550Class 6: Replace 0.682Class 7: Replace 0.682Class 8: Replace 0.925roposed Response33SC 33.2.8	s with 27.5/VPSE with 34.1/VPSE with 40.4/VPSE with 48.1/VPSE	L 36	# 345	Add info: <unchanged> Proposed Response Response Cl 33 SC 33.2.8 Darshan, Yair Comment Type TR Commen This comment is marked TLIM-2P It doesn't make sense that TLIM-2 Examples:</unchanged>	P 120 Mirosemi ent Status X 2. 2P will be change	d per the assign	ned class.
Replace the values for It Class 0 to 4: Leave as is Class 5: Replace 0.550 Class 6: Replace 0.682 Class 7: Replace 0.682 Class 8: Replace 0.925 roposed Response 33 SC 33.2.8 seboodt, Lennart romment Type E	s with 27.5/VPSE with 34.1/VPSE with 40.4/VPSE with 48.1/VPSE <i>Response Status</i> 0		# <u>345</u>	Add info: <unchanged> Proposed Response Response Cl 33 SC 33.2.8 Darshan, Yair Comment Type TR Comme This comment is marked TLIM-2P It doesn't make sense that TLIM-2</unchanged>	P 120 Mirosemi ent Status X 2. 2P will be change to meet TLIM-2P= PD, will have now	d per the assign 6msec, when co	ned class.
Replace the values for It Class 0 to 4: Leave as it Class 5: Replace 0.550 Class 6: Replace 0.682 Class 7: Replace 0.682 Class 8: Replace 0.925 oposed Response 33 SC 33.2.8 seboodt, Lennart omment Type E Table 33-18, item 9, add	s with 27.5/VPSE with 34.1/VPSE with 40.4/VPSE with 48.1/VPSE <i>Response Status</i> O <i>P</i> 119 Philips <i>Comment Status</i> X		# <u>345</u>	Add info: <unchanged> Proposed Response Response Cl 33 SC 33.2.8 Darshan, Yair Comment Type TR Commen This comment is marked TLIM-2P It doesn't make sense that TLIM-2P It doesn't make sense that TLIM-2P It doesn't make sense that TLIM-2P It Sense that TLIM-2P It doesn't make sense that TLIM-2P It doesn't m</unchanged>	P 120 Mirosemi ent Status X 2. 2P will be change to meet TLIM-2P= PD, will have now	d per the assign 6msec, when co	ned class.
Class 0 to 4: Leave as is Class 5: Replace 0.550 Class 6: Replace 0.682 Class 7: Replace 0.777 Class 8: Replace 0.925 roposed Response	s with 27.5/VPSE with 34.1/VPSE with 40.4/VPSE with 48.1/VPSE <i>Response Status</i> O <i>P</i> 119 Philips <i>Comment Status</i> X I info has a reference colored		# <u>345</u>	Add info: <unchanged> Proposed Response Response Cl 33 SC 33.2.8 Darshan, Yair Comment Type TR Commen This comment is marked TLIM-2P It doesn't make sense that TLIM-2P It doesn't make sense that TLIM-2P It doesn't make sense that TLIM-2P It Se is type 4 which need only to assigned class 1 in case of faulty high stress on PSE for no reason. SuggestedRemedy Change from: "Short circuit time li</unchanged>	P 120 Mirosemi ent Status X 2 2P will be change 20 meet TLIM-2P= PD, will have now	d per the assign 6msec, when co / to endure 50ms	ned class. onnected to Type 3 sec of TLIM-2P. This is
Replace the values for It Class 0 to 4: Leave as is Class 5: Replace 0.550 Class 6: Replace 0.682 Class 7: Replace 0.777 Class 8: Replace 0.925 roposed Response	s with 27.5/VPSE with 34.1/VPSE with 40.4/VPSE with 48.1/VPSE <i>Response Status</i> O <i>P</i> 119 Philips <i>Comment Status</i> X I info has a reference colored		# <u>345</u>	Add info: <unchanged> Proposed Response Response Cl 33 SC 33.2.8 Darshan, Yair Comment Type TR Comment This comment is marked TLIM-2P It doesn't make sense that TLIM-2P</unchanged>	P 120 Mirosemi ent Status X 2 2P will be change to meet TLIM-2P= PD, will have now imit per pairset, per the per pairset, per the per pairset" and m	d per the assign 6msec, when co to endure 50ms er the Class assi e Class required erge the parame	ned class. onnected to Type 3 sec of TLIM-2P. This is igned to the PD" by the PD" eter column to "Single

C/ 33 SC 33.2.8 Yseboodt, Lennart	P 120 L 9 Philips	# 347	C/ 33 SC 33.2.8. Zimmerman, George	2 P 121 CME Consul	L 54 ting, Aqua	# 447
Comment Type ER Comment Table 33-18, Item 12 has "See Info" information column. Looking at Figu maintain the short circuit current Ilim meaningful maximum for Tlim-2P. SuggestedRemedy - Remove "See Info"	res 33-27 through 33-29 it is a	llowed for the PSE to	doesn't say where it SuggestedRemedy	Comment Status X defined in Table 33-23, is the is measured. " after "between pairs" Response Status O	maximum voltage	between pairs"
roposed Response Response	Status 0	# 348	<i>Cl</i> 33 SC 33.2.8. Abramson, David	5 P 122 Texas Instru	L 25 ments	# 1
seboodt, Lennart <i>comment Type</i> ER <i>Comment</i> Table 33-18, item 22, lunb. Looks horrible, doesn't fit the table.	Philips <i>t Status</i> X		SuggestedRemedy	Comment Status X be reordered to be much more 0117.pdf for changes.	e clear.	
Since this is not numerical in nature 33.2.8.12. Do: - REMOVE item 22 from Table 33-1 - Replace first paragraph of 33.2.8.1 "The PSE shall support an intra-pair 22a. The intra-pair current unbalance is t power pair over the current load ran	8 I2: r current unbalance of I unb, a he current unbalance betweer	s defined in Equation 33-	Proposed Response	Response Status O		
- Insert Equation 33-22a after first pa	5 1					
I_unb = { 3% x ICable for Typ Proposed Response Response						

Pa **122** Li **25**

C/ 33 SC 33.2.8.5 P 122 L 26 # 248 Schindler, Fred Seen Simply, Cisco, T Each contract of the second contract of t	C/ 33 SC 33.2.8.5 P 122 L 29 # 250 Schindler, Fred Seen Simply, Cisco, T
 Comment Type TR Comment Status X The text in this section can be improved. The existing sentence, "For Type 1 and Type 2 PSEs, IPort-2P is defined in 33.2.5.4. For Type 3 and Type 4 PSEs, IPort-2P and IPort-2P-other are the currents on the pairs with the same polarity of the two pairsets and are defined in Equation (33–5) and in Equation (33–6)." The reference for the Iport-2P definition references 33.2.5.4 where the reader must scroll to locate Iport-2P on the next page, p68. This point then references 33.2.8.7, which is on page 127. There seems to be a stealth definition for Iport-2p in the first sentence, "If IPort-2P, the current supplied on a pairset by the PSE to the PI, exceeds ICUT-2P for longer than TCUT-2P, the PSE may remove power from that pairset." SuggestedRemedy Replace the original referenced text with, "IPort-2P is the current supplied on a pairset by the PSE to the PI. For Type 3 and Type 4 PSEs, IPort-2P and IPort-2P-other are the currents on the pairs with the same polarity with values defined in Equation (33–5) and in Equation (33–6), respectively." 	Comment Type TR Comment Status X The word "total" is used to mean A + B but could also mean what is on A or B. A better word for A + B is "combined." This existing text is confusing because currents on both conductors of a pairset are also combined. The solution provided uses combined and pairset to improve clarity. This method of use appears in sentences, p122 128 "Port is the total current on both pairs with the same polarity and is defined in Equation (33–7)." p123 123 "Icon is the total current of both pairs with the same polarity" p123 125 "IPeak is the total current of both pairs with the same polarity" SuggestedRemedy Replace "total" in the called out sentences with "combined", and replace "pairs" with "pairset". Proposed Response Response Status O
On page 68 line 13, replace the existing definition, "IPort-2P Output current (see 33.2.8.7)."	
With "IPort-2P is the current supplied on a pairset by the PSE to the PI."	

Proposed Response

Response Status 0

Pa **122** Li **29**

/ 33 SC 33 chindler, Fred	.2.8.5	P 122 Seen Simply,	L 43	# 249	CI 33 Johnson, F	SC 33.2.8.5	P 12 Sifos	23 Technologi	L 3	# 124	
,	R Comi	ment Status X	01300, 1		Comment		Comment Status	0	03		
The text in this s	ection can be i	mproved. The exist	ing sentence, imary Alternative	e, defined in 33.2.5.9		nt text says:	Comment Status	~			
IPort-2P-sec is t 33.2.5.9"	he output curre	nt sourced by the Se	econdary Alterna	ative, defined in		s is PClass as d	efined in Table 33–13 2P as defined in Table				
		he section that start		ed to scroll to page 80 circular reference).	But Po	class is defined r	more broadly by EQ 3	3-2 and PC	lass-2P by E	Q 33-3.	
"IPort-2P-pri					Suggested	lRemedy					
	rent sourced by	Primary Alternative	(see 33.2.8.5).		Revise	e to:					
	,	Secondary Alternat	,	5)." erring to this section.		s is PClass as d	efined in Equation (33 2P as defined in Equat				
		vide guidance on wi			Proposed	Response	Response Status	ο			
	on for Primary a	and Secondary appe	ears on p66 lines	46 -50 of section							
33.2.5.1.1:					CI 33	SC 33.2.8.5	P 1:	23	L 21	# 125	
	nd Type 4 state	diagram, Alternativ	e A and Alternati	ive B are depicted as	Johnson, F	Peter	Sifos	Technologi	es		
serving distinct	air aparation. In		the behaviore	of the Alternatives may	Comment	Туре Т	Comment Status	х			
be reversed as l	ong as the role	s are established in	DLE and shall b	mary Alternatives may	Prese	nt text is a bit va	gue about definitions of	of Ipeak-2F	and Ipeak.		
the Secondary A		,		,,			rt the AC current wave				tion
uggestedRemedy							ne operating voltage racy	ange of VP	οπ_ΡSE-2Ρ,	for a minimum of	
Add the followin	g after the sent	ence on page 122 li	ne 30,								
	-	Secondary Alternativ	ve is defined in 3	33.2.5.1.1."	First, i pairse		ained that Ipeak-2P is	a pairset c	urrent and ap	oplies to all powered	ł
	he output curre	sentence with. nt sourced by the Pr nt sourced by the Se									
1 011-21 -300 13 1		The Sourcea by the O	condary Alterna		Next, i	t					
Replace the def "IPort-2P-pri	nitions on page	e 80 line 1 with,			Suggested						
	ent sourced by t	he Primary Alternati	ive (see 33.2.8.5).	Add th	e qualifier for po	owered pairset:				
The output curre	-	he Secondary Alterr	native (see 33.2.3	8.5)."	(33–14	1), on each powe	rt the AC current wave ered pairset, while with	nin the ope	rating voltage		
roposed Response	e Respo	onse Status O					FCUT-2P and a duty c				
					Proposed						

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Pa 123

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 Li 21

 SORT ORDER: Page, Line
 Pa
 123

Page 39 of 101 12/19/2016 11:30:14 A

CI 33 SC 33.2.8.5 Zimmerman, George	P 123 CME Consultin	<i>L</i> 25 g, Aqua	# 448	<i>Cl</i> 33 Schindler, F	SC 33.2.8.5	P 123 Seen Simply	<i>L</i> 37 /, Cisco, T	# 251
	Comment Status X ant of both pairs with the same -10), when powering either in			Comment T Existing provided	, text usage ma	Comment Status X y confuse the new reader be	ecause incomple	te information is
when powering in 2-pai	on of "both pairs with the sam r	e polarity" does	n't make much sense			h cover a quantity. peak power a PD may drav	v for its Class: se	e Table 33–30"
SuggestedRemedy change "of both" to "of	the powered" (pairs with the s	ame polarity).		-	-	current a PSE supports pe	,	
Proposed Response	Response Status O			Since th second	ere is only one sentence assu	PD the word "total" may be nes the reader is aware that I guantity being defined.	removed from th	ne first sentence. The
C/ 33 SC 33.2.8.5 Johnson, Peter	P 123 Sifos Technolo	L 25 gies	# 126	SuggestedF	emedy	t sentence called out. Repl	ace the second s	sentence with
applies only to 4-pair P "IPeak is the total curre defined in Equation (33 signature PD. IPeak-2F	ue about definitions of Ipeak- SE's. -10), when powering either in 2-unb is the minimum current as defined by Equation (33–11	polarity that a l 2-pair or 4-pair due to unbalanc	· PSE supports, as powering a single- æ effects that a PSE	Proposed R Cl 33 Jones, Chao Comment T	SC 33.2.8.5	peak current for each pairs Response Status O P 124 Cisco Comment Status X lasses 5-8, and it is my und	L1	# [136
"IPeak, as defined in En needed to deliver Ppea	o the following two paragraph quation (33–10), is the combir k_PD to a PD given loop resis id to a PSE powering 4 pair to	ned current of al stance Rchan.	It is applicable to a	we have classes SuggestedF	defined new T 1-4 in EQ 33-1 <i>emedy</i>	ype 3 Class 1-4 4P modes.	Why don [*] t we ha	
	ed by Equation (33–11), is the 4 pair, to a single signature F			Proposed R	esponse	Response Status O		
Move the second of the	ese paragraphs to just before	Equation 33-11.						
	Response Status O							

Pa **124** Li **1**

C/ 33 SC 33.2.8.5	P 124	L 13	# 127	CI 33 SC 33.2.8.5 P 124 L 32 # 252					
Johnson, Peter	Sifos Technol	ogies		Schindler, Fred Seen Simply, Cisco, T					
Comment Type T Comm	ent Status X			Comment Type TR Comment Status X					
The following phrase includes th why it is provided in the first plac		"worst case" an	d might better explain	The word "total" is used when it does not have to be. This occurs on,					
"The worst case value of IPeak-2 (33–13)."	P-unb is IPeak-2P-	-unb_max whicl	n is defined by Equatior	p124 l32 "IPeak is the total peak current a PSE supports per Equation (33–13)"					
SuggestedRemedy Alter this sentence to:				p124 l40 "PPeak_PD-2P is the total peak power a dual-signature PD may …"					
"For all values of Ipeak and Rcha bounded by Equation (33–13)."	an-2P, the maximur	n possible valu	e for Ipeak-2P_unb is	p125 l1 "and will be higher than ICon/2. ICon-2P-unb applies for total channel common mode pai resistance"					
Proposed Response Response Status O	p163 l8 "The total PD inrush time duration is …"								
				p163 I34 "CPort in Table 33–30 is the total PD input capacitance …"					
				p169 l26 "effect of the total system pair to pair voltage …"					
				p245 l16 and on p246 l35 "Total energy consumed at the port or pairset …"					
				p257 l24 "Therefore, the total Port output impedance …"					
			p263 l24 "ICon-2P-unb and Equation (33–15) are specified for total channel common mode pair resistance …"						
				p115 I30 "The total timing specification for Type 3 and Type 4 PSEs in the states …"					
				SuggestedRemedy					
				Remove the word "total" from the referenced sentences and have the Editor ensure corre capitalization as appropriate when making these changes.					
				Proposed Response Response Status O					

Pa **124** Li **32**

C/ 33 SC 33.2.8.5.1 P 124 L 43 # 288	C/ 33 SC 33.2.8.5.1 P 124 L 45 # 349
Stover, David Linear Technology Comment Type TR Comment Status X	Yseboodt, Lennart Philips Comment Type E Comment Status X
TDL 2.1: System Unbalance Requirements	"This section describes unbalance requirements for Type 3 and Type 4 PSEs that operate
SuggestedRemedy	over 4-pair."
See paul_01_0117.pdf	We don't use the word section. We also need a bit of an intro to this section.
Proposed Response Response Status O	SuggestedRemedy
	"Type 3 and Type 4 PSEs that operate over 4-pair are subject to unbalance requirements."
C/ 33 SC 33.2.8.5.1 P 124 L 43 # 280 Stewart, Heath Linear Technology Linear Technology Linear Technology	Proposed Response Response Status O
Comment Type TR Comment Status X	Cl 33 SC 33.2.8.5.1 P 125 L 2 # 89
During discussions in San Antonio it was generally agreed that PSE unbalance	Darshan, Yair Mirosemi
requirements can best be addressed by: 1) Moved RPSE style requirements from the main body of clause 33 to annex 33B 2) Promoting 33B.4 to the main body of clause 33 3) Removing shalls from remainder of Annex 33B	Comment Type TR Comment Status X In the text "ICon-2P-unb applies for total channel common mode pair resistance from 0.2 ohm to RCh." It has to be "Rchan-2P" and not "Rch".
SuggestedRemedy	SuggestedRemedy
See paul_01_0117.pdf	Change text to: "ICon-2P-unb applies for total channel common mode pair resistance from
Proposed Response Response Status O	0.2 ohm to Rchan-2P." Proposed Response Response Status O
C/ 33 SC 33.2.8.5.1 P 124 L 44 # 88	C/ 33 SC 33.2.8.5.1 P 125 L 11 # 90
Darshan, Yair Mirosemi	Darshan, Yair Mirosemi
Comment Type TR Comment Status X	Comment Type TR Comment Status X
(TDL #162 from D2.1) Move normative requirements from Annex 33B into main body of standard. Make Annex 33B informative.	Currently, PSE unbalanced requirements for class 6 and 8 extended power are not define and therefore interoperability between PD that wants it to a PSE that want to support it is
SuggestedRemedy	not guaranteed.
See Darshan_01_0117.pdf for proposed remedy.	SuggestedRemedy Addopt darshan_03_0117.pdf
Proposed Response Response Status O	
	Proposed Response Response Status O

Pa **125** Li **11**

SC 33.2.8.8 C/ 33 SC 33.2.8.6 P 125 L 44 # 350 C/ 33 P 127 L 40 # 352 Yseboodt, Lennart Yseboodt, Lennart Philips Philips Comment Type E Comment Status X Comment Type E Comment Status X Equation 33-16 uses on the third line a dot for multiplication, should be x. "Editor's Note: Figures 33-27 through 33-29 (POWER_ON operating template) have been redrawn to better fit the page (wider, but less high). No technical changes to these figures SuggestedRemedy compared to D2.0." Change dot to x. SugaestedRemedv Proposed Response Response Status O Remove note. Proposed Response Response Status 0 C/ 33 SC 33.2.8.6 P 126 L 15 # 351 Yseboodt, Lennart Philips C/ 33 SC 33.2.8.8 P 128 L 12.3 # 238 Comment Type E Comment Status X Picard, Jean **Texas Instruments** "t0+1ms" is missing spaces. TR Comment Status X Comment Type SuggestedRemedy ILIM has disappeared from figures 33-28 and 33-29. Comment 221 of last comment cycle Change to: "t0 + 1 ms" was about writing it correctly, not to delete it. SuggestedRemedy Proposed Response Response Status 0 Put back ILIMmin Proposed Response Response Status 0 P 127 C/ 33 SC 33.2.8.7 L 18 # 253 Schindler, Fred Seen Simply, Cisco, T Comment Type TR Comment Status X Existing text usage may confuse the new reader because incomplete information is provided. "The right side vertical axis in Figure 33–28 and Figure 33–29 indicates the total current when a Type 3 or Type 4 PSE supplies power to a single-signature PD over 4-pair." The sentence assumes the reader is aware that each pairset provides current that is combined to give a total quantity being defined. SuggestedRemedy Replace the called out sentence with, "The right side vertical axis in Figure 33–28 and Figure 33–29 indicates the combined pairset current when a Type 3 or Type 4 PSE supplies power to a single-signature PD over 4-pair." Proposed Response Response Status 0

IEEE P802.3bt D2.2 4-Pair PoE 2nd Working Group recirculation ballot comments

Pa **128** Li **12,36**

C/ 33 SC 33.2.8.13 P131 L14 # 123	Cl 33 SC 33.2.9 P 132 L 3 # 138
ohnson, Peter Sifos Technologies	Jones, Chad Cisco
Comment Type T Comment Status X	Comment Type TR Comment Status X
As described in the referenced 33.2.8.13:	the sentence: "A PSE shall not initiate power provision to one or both pairsets if the PSE
"PType min is the minimum power a PSE is capable of sourcing."	has less than Class 3 power available and the connected PD requests more than the available power." establishes a new PICS against Type 1 and Type 2 PSEs. This shall v added because we formalized power demotion this time around, it should only apply to
So according to Table 33-18, item 13, that is 15.4W for Type 1 and 3, 30W for Type-2, and 90W for Type-4. But this is not techically correct. Pclass in 33.2.7 is described as	Type 3 and 4 PSEs. SuggestedRemedy
"The minimum power output a PSE supports for a particular PD Class"	change to: "A Type 3 or Type 4 PSE shall not initiate power provision to one or both pairsets if the PSE has less than Class 3 power 3 available and the connected PD
and there is a similar definition for Pclass-2P.	requests more than the available power."
SuggestedRemedy	Change the 'status' field of PSE107 from 'M' to: PSET3:M
This can be remedied in 33.2.8.13 as follows:	PSET4:M
	Proposed Response Response Status O
"PType min is the minimum power that a PSE supplying Vport_PSE_2P(min) is capable of sourcing."	
sourcing."	C/ 33 SC 33.2.10.1.2 P 134 L 27 # 139 Jones, Chad Cisco
sourcing."	
sourcing." roposed Response Response Status 7/33 SC 33.2.8.13 P 131 L 15 # 137	Jones, Chad Cisco Comment Type TR Comment Status X the sentence: "A PSE, depending on the connected Type of PD and whether it is connected to a single-signature PD or a dual-signature PD, shall use the applicable IHo
sourcing." Proposed Response Response Status O 27 33 SC 33.2.8.13 P 131 L 15 # 137 ones, Chad Cisco	Jones, Chad Cisco Comment Type TR Comment Status X the sentence: "A PSE, depending on the connected Type of PD and whether it is connected to a single-signature PD or a dual-signature PD, shall use the applicable IHo IHold-2P, TMPS and TMPDO values as defined in Table 33– 18." adds a new requirement
sourcing." Proposed Response Response Status O 27 33 SC 33.2.8.13 P 131 L 15 # 137 ones, Chad Cisco	Jones, Chad Cisco Comment Type TR Comment Status X the sentence: "A PSE, depending on the connected Type of PD and whether it is connected to a single-signature PD or a dual-signature PD, shall use the applicable IHo IHold-2P, TMPS and TMPDO values as defined in Table 33– 18." adds a new requirement to Type 1 and Type 2 PSEs. They don't have the ability to discern between SS and DS
sourcing." roposed Response Response Status O / 33 SC 33.2.8.13 P 131 L 15 # 137 pones, Chad Cisco comment Type TR Comment Status X	Jones, Chad Cisco Comment Type TR Comment Status X the sentence: "A PSE, depending on the connected Type of PD and whether it is connected to a single-signature PD or a dual-signature PD, shall use the applicable IHo IHold-2P, TMPS and TMPDO values as defined in Table 33– 18." adds a new requirement to Type 1 and Type 2 PSEs. They don't have the ability to discern between SS and DS PDs. This sentence should only apply to Type 3 and Type 4 PSEs. It seems the PICS editor understood this as it is assigned to Type 3 and Type 4 but then
sourcing." Proposed Response Response Status O 2/ 33 SC 33.2.8.13 P 131 L 15 # 137 pones, Chad Cisco Comment Type TR Comment Status X "calculated with any sliding window with a width up to 4 seconds". This statement doesn't have a minimum. Implies my window width could be 1ps	Jones, Chad Cisco Comment Type TR Comment Status X the sentence: "A PSE, depending on the connected Type of PD and whether it is connected to a single-signature PD or a dual-signature PD, shall use the applicable IHo IHold-2P, TMPS and TMPDO values as defined in Table 33– 18." adds a new requirement to Type 1 and Type 2 PSEs. They don't have the ability to discern between SS and DS PDs. This sentence should only apply to Type 3 and Type 4 PSEs. It seems the PICS editor understood this as it is assigned to Type 3 and Type 4 but there is an entry of DC:M. also need to remove this.
sourcing." Troposed Response Response Status O 27 33 SC 33.2.8.13 P 131 L 15 # 137 pones, Chad Cisco Tromment Type TR Comment Status X "calculated with any sliding window with a width up to 4 seconds". This statement doesn't have a minimum. Implies my window width could be 1ps uggestedRemedy give a minimum. Change to: "calculated with any sliding window with a width up to 4	Jones, Chad Cisco Comment Type TR Comment Status X the sentence: "A PSE, depending on the connected Type of PD and whether it is connected to a single-signature PD or a dual-signature PD, shall use the applicable IHo IHold-2P, TMPS and TMPDO values as defined in Table 33–18." adds a new requireme to Type 1 and Type 2 PSEs. They don't have the ability to discern between SS and DS PDs. This sentence should only apply to Type 3 and Type 4 PSEs. It seems the PICS editor understood this as it is assigned to Type 3 and Type 4 but ther is an entry of DC:M. also need to remove this. SuggestedRemedy
sourcing." Proposed Response Response Status O C/ 33 SC 33.2.8.13 P 131 L 15 # 137 ones, Chad Cisco Comment Type TR Comment Status X "calculated with any sliding window with a width up to 4 seconds". This statement doesn't have a minimum. Implies my window width could be 1ps Suggested Remedy	Jones, Chad Cisco Comment Type TR Comment Status X the sentence: "A PSE, depending on the connected Type of PD and whether it is connected to a single-signature PD or a dual-signature PD, shall use the applicable IHo IHold-2P, TMPS and TMPDO values as defined in Table 33– 18." adds a new requireme to Type 1 and Type 2 PSEs. They don't have the ability to discern between SS and DS PDs. This sentence should only apply to Type 3 and Type 4 PSEs. It seems the PICS editor understood this as it is assigned to Type 3 and Type 4 but ther is an entry of DC:M. also need to remove this. SuggestedRemedy change to "A Type 3 PSE operating over 4-pairs or Type 4 PSE, depending on the
sourcing." Proposed Response Response Status O Cl 33 SC 33.2.8.13 P 131 L 15 # 137 Ones, Chad Cisco Comment Type TR Comment Status X "calculated with any sliding window with a width up to 4 seconds". This statement doesn't have a minimum. Implies my window width could be 1ps SuggestedRemedy give a minimum. Change to: "calculated with any sliding window with a width up to 4	Jones, Chad Cisco Comment Type TR Comment Status X the sentence: "A PSE, depending on the connected Type of PD and whether it is connected to a single-signature PD or a dual-signature PD, shall use the applicable IHo IHold-2P, TMPS and TMPDO values as defined in Table 33–18." adds a new requireme to Type 1 and Type 2 PSEs. They don't have the ability to discern between SS and DS PDs. This sentence should only apply to Type 3 and Type 4 PSEs. It seems the PICS editor understood this as it is assigned to Type 3 and Type 4 but ther is an entry of DC:M. also need to remove this. SuggestedRemedy

Pa **134** Li **27**

C/ 33 SC 33.2.10.	.1.2 P 135	L 2	# 254	C/ 33 SC 33.3.3	P 137	L 16	# 354
Schindler, Fred	Seen Simply	, Cisco, T		Yseboodt, Lennart	Philips		
Comment Type TR	Comment Status X			Comment Type TR	Comment Status X		
provided. "NOTE—The DC MP single-signature PD a	nay confuse the new reader be S requirements for Type 3 and are such that the PSE may me irset with the highest current (I	d Type 4 PSEs v asure either the	vhen connected to a	shown in Figure 33-3 (next sentence) "Dual-signature Type shown in Figure 33-3	3 and Type 4 PDs shall provic 3 over each pairset independe	le the behavior c	f the state diagram
The contenes coolim	as the reader is sucre that as	ah nairaat arawi	dee ourreat that is	The first sentence is	a subset of the second.		
	es the reader is aware that ea otal quantity being defined.	ch pairset provid	des current that is	SuggestedRemedy			
SuggestedRemedy				Remove first quoted	sentence.		
Replace the called ou	ut sentence with			Proposed Response	Response Status 0		
	S requirements for Type 3 and are such that the PSE may me			C/ 33 SC 33.3.3.3	P 137	L 41	# 165
single-signature PD a current (IHold) or the		asure either the	combined pairset	Law, David Comment Type T	P 137 HPE Comment Status X used in Figure 33–31 'PD stat		
single-signature PD a current (IHold) or the Proposed Response	are such that the PSE may me current on the pairset with the	asure either the	combined pairset (IHold-2P)."	Law, David <i>Comment Type</i> T The constant VReset	HPE Comment Status X	e diagram', for e	xample in the transitio
single-signature PD a current (IHold) or the Proposed Response	are such that the PSE may me current on the pairset with the <i>Response Status</i> O	easure either the highest current	combined pairset (IHold-2P)."	Law, David Comment Type T The constant VReset from the IDLE to DO_ SuggestedRemedy	HPE Comment Status X used in Figure 33–31 'PD stat DETECTION state, is not defi	e diagram', for e ned in subclause	xample in the transitic
single-signature PD a current (IHold) or the Proposed Response C/ 33 SC 33.3.2 (seboodt, Lennart	are such that the PSE may me current on the pairset with the <i>Response Status</i> O <i>P</i> 136	easure either the highest current	combined pairset (IHold-2P)."	Law, David Comment Type T The constant VReset from the IDLE to DO_ SuggestedRemedy	HPE Comment Status X used in Figure 33–31 'PD stat	e diagram', for e ned in subclause	xample in the transitic
single-signature PD a current (IHold) or the Proposed Response Cl 33 SC 33.3.2 Yseboodt, Lennart Comment Type E Table 33-21 NOTE do	are such that the PSE may me current on the pairset with the <i>Response Status</i> O <i>P</i> 136 Philips	easure either the highest current	combined pairset (IHold-2P)."	Law, David Comment Type T The constant VReset from the IDLE to DO_ SuggestedRemedy	HPE Comment Status X used in Figure 33–31 'PD stat DETECTION state, is not defi wing additional definition be ad	e diagram', for e ned in subclause	xample in the transitic
single-signature PD a current (IHold) or the Proposed Response Cl 33 SC 33.3.2 Yseboodt, Lennart Comment Type E	are such that the PSE may me current on the pairset with the <i>Response Status</i> O <i>P</i> 136 <i>Philips</i> <i>Comment Status</i> X oes not align with Table bound	easure either the highest current	combined pairset (IHold-2P)."	Law, David Comment Type T The constant VReset from the IDLE to DO_ SuggestedRemedy Suggest that the follo VReset	HPE Comment Status X used in Figure 33–31 'PD stat DETECTION state, is not defi wing additional definition be ad	e diagram', for e ned in subclause	xample in the transitic

Pa **137** Li **41**

C/ 33	SC 33.3.3.4	P 138	L 36	# 166	CI 33	SC 33.3.3.6
Law, David	b	HPE			Law, David	

Comment Type TR Comment Status X

The variable 'power_received' is defined as FALSE when 'The input voltage does not meet the requirements of VPort_PD-2P in Table 33–30.' and TRUE when 'The input voltage meets the requirements of VPort_PD-2P.'. Table 33–30 'PD power supply limits' item 1 'Input DC voltage per pairset' defines VPort_PD-2P for a Type 1 PD as 42.1V minimum, 57.0V maximum. This means for a for a Type 1 PD if the input voltage is 41.(9 repeated)V, since that does not meet the minimum of 42.1V, the variable has to be FALSE, yet if the input voltage is 42.1V the variable has to be TRUE. Subclause 33.3.8.1 'Input voltage' however states that 'The PD shall turn on at a voltage in the range of VOn_PD.' and item 16 of Table 33–30 defines VOn_PD of 30.0V minimum, 42.0V maximum. Based on this (a) there is no margin provided for the voltage at which 'power_received' is set TRUE which causes the PD state diagram to transition from detection or classification in to the MDI_POWER1 state and (b) the text and state diagram do not match in respect to at what voltage the PD turns on at, although due to the reference to subclause 21.5 in subclause 33.2.5.2 ' State diagrams take precedence over text.'.

SuggestedRemedy

Suggest that the definition of the values of the 'power_received' variable be changed to read as follows:

FALSE: The input voltage does not meet the requirements of VOn_PD in Table 33–30. TRUE: The input voltage meets the requirements of VOn_PD.

Proposed Response Response Status **O**

CI 33	SC 33.3.3.6	P 140	L 31	# 167
Law, David		HPE		

Comment Type TR Comment Status X

There is an assignment to the pse_dll_power_type variable in the INITIALIZE state of Figure 33–49 'PD power control state diagram' as well as a mapping to it in Table 33–41 'Attribute to state diagram variable cross-reference' so effectively there are two sources to this variable. There is a case where a Type 2 PD is connected to a Type 2 PSE that supports 1-event physical layer classification, Data Link Layer Classification which will result in two different values for pd_dll_power_type from these two sources.

On entry to the DO_DETECTION state of Figure 33–31 'Type 1 and Type 2 PD state diagram' the pse_power_type variable is set to 1. As a result of the 1-event physical layer classification that this PSE will perform, the state diagram will then progress to the DO_CLASS_EVENT1 state and then, assuming that the PSE starts supplying power, will progress to the MDI_POWER1 state once the power_received variable becomes TRUE.

The pd_max_power variable will be set to 0 (4 modulo 4), allowing the PD to draw up to Class 0 power (13.0W). Since pse_power_type has been set to 1 the state diagram will then progress to the DLL_ENABLE state setting the pd_dll_enabled variable to TRUE enabling Data Link Layer Classification for the PD. At this point however pse_power_type is still set to 1 so the state diagram will transition back to the MDI_POWER1 state where it will remain as pd_dll_enabled is now TRUE.

Since the PSE supports Data Link Layer Classification the aLldpXdot3RemPowerType attribute within the oLldpXdot3RemSystemsGroup managed object class will return a bit string indicating a Type 2 PSE at some point afterwards when the pd_dll_ready variable becomes TRUE. This, according to Table 33–41 'Attribute to state diagram variable cross-reference', also results in pd_dll_power_type being set to 2. The problem is that, according to the Figure 33-49 'PD power control state diagram', when pd_dll_ready becomes TRUE the value of pse_power_type is latched on to pse_dll_power_type, and at that point in time it is 1.

Now it seems that the intent was that when pse_dll_power_type became 2 due to Data Link Layer Classification, the equation on the transition from MDI_POWER1 to MDI_POWER_DLY state became true (pse_power_type = 2) + (pse_dll_power_type = 2) causing, after a delay, entry to the MDI_POWER2 state. At that point the pd_max_power variable will be increased from 0 (class_sig modulo 4) to 4 due to the assignment pd_max_power <= class_sig enabling the power drawn to increase from Type 1 to Type 2 limits.

The problem is there are two values of pse_dll_power_type once Data Link Layer Classification is in operation, the one based on the Table 33–41 mapping which in this case would be set to a value of 2, and the one output by the Figure 33-49 state diagram, which in this case would be set to a value of 1. As well as the statement that 'State diagrams take precedence over text.' the definition of the pse_dll_power_type variable in subclause 33.3.3.4 'Type 1 and Type 2 Variables' for Figure 33-31 states 'A control variable output by the PD power control state diagram (Figure 33–49) that ...'. Based on this it would seem that the latter value of 1 should be used, however the problem with this is that

TYPE: TR/technical required ER/editorial required GR/gener	al required T/technical E/editorial G/general	Pa 140	Page 46 of 101
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	Li 31	12/19/2016 11:30:15 A
SORT ORDER: Page, Line			

the MDI_POWER2 state will then never be reached, and the PD will have to continue draw power within the Type 1 limits.

It would seem a better approach would be to remove the assignment of pse_power_type to pse_dll_power_type in the INITIALIZE state of Figure 33–49 'PD power control state diagram' and just use the Table 33–41 'Attribute to state diagram variable cross-reference' mapping for Figure 33-31. This is the only use of the pse_power_type and pse_dll_power_type variables in Figure 33–49 so they can also be removed from the associated variable definition lists.

The variable pse_dll_power_type however has to gated while pd_dll_ready is FALSE, since at that time aLldpXdot3RemPowerType is undefined and therefore the mapping of Table 33–41 'Attribute to state diagram variable cross-reference' is undefined. Based on this the use of pse_dll_power_type on the MDI_POWER1 to MDI_POWER_DLY transition should be qualified with pse_dll_ready = TRUE, so the equation would become (pse_power_type = 2) + (pse_dll_power_type = 2 * pd_dll_ready).

Note: This comment relates to TDL D2.1 #118, #122, #140 and #25.

SuggestedRemedy

Suggest that:

[1] The equation on the transition from the MDI_POWER1 state to the MDI_POWER_DLY state in Figure 33-31 'Type 1 and Type 2 PD state diagram' be changed to read '(pse power type = 2 + (pse dll power type = 2 + pd dll ready)'.

[2] The assignment 'pse_dll_power_type <= pse_power_type' in the INITIALIZE state in Figure 33–49 'PD power control state diagram' be removed.

[3] The definition of pse_power_type be removed from 33.5.3.3 'Single-signature system Variables'.

[4] The definition of pse_dll_power_type be removed from 33.5.3.3 'Single-signature system Variables'.

[5] In definition of pse_dll_power_type in subclause 33.3.3.4 'Type 1 and Type 2 Variables' change the text 'A control variable output by the PD power control state diagram (Figure 33–49) that ...' to read 'A variable mapped from the aLldpXdot3RemPowerType as defined in Table 33-41 that indicates ...'.

Proposed Response Response Status **O**

CI 33	SC 33.3.3.7	P 141	L 28	#	168	l
Law, David		HPE				

Comment Type T Comment Status X

The definition of the constant VOff_PD used in Figure 33-32 'Type 3 and Type 4 singlesignature PD state diagram' is missing from the definitions in subclause 33.3.3.7 'Type 3 and Type 4 single-signature constants'.

SuggestedRemedy

VOff_PD

PD power supply turn off voltage (see Table 33–30)

Proposed Response Response Status **O**

C/ 33	SC 33.3.3.8	P 142	L 1	# 255
Schindler	, Fred	Seen Simply,	Cisco, T	

Comment Type TR Comment Status X

The existing text is incomplete and leads to confusion on what is permitted using DLL operations. The DLL may provide the PD requested class but the PD may not draw more than pd_max_power, which is the assigned class before DLL may increase the allocated PD power. Flag-DS.

"pd_max_power

A control variable indicating the max power that the PD may draw from the PSE."

SuggestedRemedy

Replace the called out sentence with,

"pd_max_power

A control variable indicating the assigned maximum power that the PD may draw from the PSE."

Proposed Response Response Status **0**

Pa **142** Li **1**

CI 33	SC 33.3.3.8	P 142	L 29	#	169	
Law, David		HPE				

Comment Type TR Comment Status X

The pd_undefined variable has the value 'FALSE' annotated as '(default)' in its definition. There is however no definition of what the '(default)' annotation means in subclause 33.2.5.2 'Conventions', which describes the state diagram conventions, nor in subclause 21.5 referenced by 33.2.5.2, nor in subclause 1.5 referenced by 21.5.

Default values have been used in state diagrams in the past, subclause 28.3 'State diagrams and variable definitions' is one example. It states '... variables follow the conventions of 21.5.2 except when the variable has a default value. Variables in a state diagram with default values evaluate to the variable default in each state where the variable value is not explicitly set.'.

Based on this definition, since pd_undefined is only ever assign a value of TRUE in the MDI_NOPOWER state of the Figure 33–32 'Type 3 and Type 4 single-signature PD state diagram', it will be assigned FALSE (The PD is in a defined condition) in all others states in Figure 33-32, which seems correct.

This definition however doesn't seem to work for pd_reset (page 142, line 23) which is an input and therefore is never assigned a value. Nor would it seem to work for the pi_powered variable (page 69, line 26) used in Figure 33–13 'Type 1 and Type 2 PSE state diagram'.

The pi_powered variable is defined as having a 'default' of FALSE (The PSE is not to apply power to the PI) however it is only assigned the value TRUE in the TEST MODE and POWER_UP states in Figure 33–13. As such, using the above definition, pi_powered would be set to FALSE in the POWER_ON state, which isn't correct.

Instead, since the pi_powered variable isn't assigned a value in the DISABLED or IDLE states in Figure 33–13, it would seem that what is meant be 'default' here is that the variable is set to the default value whenever the state diagram transitions to the 'open arrow' states DISABLED or IDLE. This would mean that if the PSE is applying power to the PI, and was reset for example (pse_reset = TRUE) power would be removed from the PI.

SuggestedRemedy

Suggest that:

[1] A definition of the '(default)' annotations be provided. Suggest the addition of text to subclause 33.2.5.2 that reads 'State diagram variables follow the conventions of 21.5.2 except when the variable has a default value. Variables in a state diagram with default values evaluate to the variable default in any state with a global transition to it (an open arrow (an arrow with no source block) regardless if the state entered through the global transition or any other transition.'.

[2] The '(default)' annotations be removed from inputs to state diagrams.

Proposed Response		Response Status O		
CI 33	SC 33.3.3.8	P 143	L 26	# 355
Yseboodt	, Lennart	Philips		

Comment Type T Comment Status X

"pse_power_level

3: The PSE has allocated the PD's requested power or Class 3 power, whichever is less.
4: The PSE has allocated the PD's requested power or Class 4 power, whichever is less.
6: The PSE has allocated the PD's requested power or Class 6 power, whichever is less.
8: The PSE has allocated the PD's requested power or Class 8 power, whichever is less.

Only applies to 3, 6 and 8. A value of 4 means 2 or 3 class events and can only mean Class 4.

SuggestedRemedy

"pse_power_level

3: The PSE has allocated the PD's requested power or Class 3 power, whichever is less. 4: The PSE has allocated Class 4 power.

6: The PSE has allocated the PD's requested power or Class 6 power, whichever is less.

8: The PSE has allocated the PD's requested power or Class 8 power, whichever is less."

Proposed Response Response Status O

Cl 33	SC 33.3.3.8	P 1	43	L 30	#	356
Yseboodt,	, Lennart	Philip	s			
	<i>Type</i> T ble "VOff_PD" is m	Comment Status issing in the variabl		r single-signature PI	D.	
Suggestee Add v	dRemedy ariable "VOff_PD".					
Proposed	Response	Response Status	0			
C/ 33 Yseboodt,	SC 33.3.3.11	P 1 Philip	-	L 1	#	358
Comment	Type TR	Comment Status es to allow LLDP to	x	pd_max_power.		
Suggester	dRemedy tyseboodt_02_011	7_lldpupdate.pdf				
Αάορι						

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Pa
 145
 Page 48 of 101

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 Li
 1
 12/19/2016 11:30:15 A

 SORT ORDER: Page, Line
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 12/19/2016 11:30:15 A

C/ 33 SC 33.3.3.11 Yseboodt, Lennart	P 145 Philips	L 1	# 357	Cl 33 SC 33.3.3. Law, David	11 <i>P</i> 145 HPE	L 18	# 172
Comment Type ER	Comment Status X			Comment Type T	Comment Status X		
The PD single-sig state	e diagram uses V_mark_th w	hich needs to be	V_Mark_th.		and Type 4 single-signature F		
SuggestedRemedy	plete state diagram, 13 occu			number of transitions constants' defines VI	s yet subclause 33.3.3.7 'Type 3 Mark_th.	3 and Type 4 sin	gle-signature
		ences).		SuggestedRemedy			
Proposed Response	Response Status O			Change all occurrence	ces of Vmark_th to read VMark	_th in Figure 33-	-32.
				Proposed Response	Response Status O		
C/ 33 SC 33.3.3.11		L 4	# 170				
Law, David	HPE			CI 33 SC 33.3.3.	11 P 145	L 19	# 113
Comment Type T	Comment Status X			Darshan, Yair	Mirosemi		
arrow) transition in to the of the variable 'BEGIN'	and Type 4 single-signature F he 'OFFLINE' state that is lab ' and this transition doesn't se	elled 'BEGIN'. I	cannot find a definition	Comment Type E Vmark_th doesn't ex	Comment Status X ist. We have VMark_th.		
of this state diagram.				SuggestedRemedy			
SuggestedRemedy Remove the global trar 33–32 and Figure 33–3	nsition in to the 'OFFLINE' sta 33 (page 150, line 5).	ate labelled 'BEG	IN' in both Figure	1. Change in from Vr 2. Scan Figure 33-32 diagram and correct	2 page^{-} 145 and 146 Type 3 and	d Type 4 single-s	ignature PD state
Proposed Response	Response Status O			Proposed Response	Response Status 0		
	<i>P</i> 145 HPE	L 12	# 171				
Comment Type T	Comment Status X						
The state OFFLINE an state diagram' both cor DLL_ENABLE contains 33.3.3.8 'Type 3 and T 'pd_dll_enabled' and 'p	d IDLE in Figure 33–32 'Type ntain assignments to the varia s an assignments to the varia ype 4 single-signature variab id_dll_enabled' is used by Fig s the assignments in the OFF	able 'pd_dll_ena ble 'pd_dll_enab les' defines the v jure 33–49 'PD p	ble' whereas the state bled' and subclause variable bower control state				
SuggestedRemedy							
	e <=' to read 'pd_dll_enable ates.	ed <=' in the a	ssignments in the				
Proposed Response	Response Status 0						

Pa **145** Li **19**

CI 33	SC 33.3.3.11	P 146	L 25	# 2	257	1
Schindler,	Fred	Seen Simply,	Cisco, T			

Comment Type TR Comment Status X

The new INRUSH state changes behavior for Type 3 and 4 PDs being power by legacy devices (a Type 2 PSE is assumed for my example). The legacy Type 1 and 2 PD state diagram, on page 140, state MDI_POWER1 has statement,

"pd_max_power <= (class_sig modulo 4)", which limits the power and current for class-4 PDs to 13.0W/37V = 0.35A.

The next state MDI_POWER_DLY, has the statement,

"start tpowerdly_timer", and MDI_POWER2 is not entered until "tpowerdly_timer_done", before power is increased,

"POWER2pd_max_power <= class_sig",where a class-4 PD would move to 25.5W (with a Type-2 PSE).

The Type 3 and 4 PD, new state INRUSH, has statement,

"pd_current_limit <= FALSE", is defined on page 141 line 49, "The PD is not required to control the input current." A PD could be damaged if a PSE did not have a current limit requirement. A Type 2 PSE is not aware of new Type 3 and 4 PDs and sees this PD as a Type 2 device.

When"inrushpd_timer_done" state MDI_POWER1 is entered where statement,

"pd_max_power <= min(3, pd_req_class) pd_current_limit <= TRUE", would move a Type-2 PD to 13W and remove the unlimited current in-rush.

However, the exit condition, "((pse_power_level > 3) + (pse_dll_power_type > 1)) * tpowerdly_timer_done", causes an immediate exit (in 0-time) for a Type-2 PD where the PD moves to 25.5W in state MDI_POWER2 with statements.

"pd_max_power <= min(pse_power_level, pd_req_class) pd_current_limit <= FALSE".

In essence the Type 3, or 4 PD moves directly to 25.5W, while a legacy PD would move from 13W then wait tinrushpd before moving to 25.5W.

But wait—there is more—Type 1 and 2 PDs use tpowerdly_timer (with a delay of Tdelay-2P, which is 80 ms minimum), while Type 3 and 4 PDs use tinrushpd (with delay Tinrush_PD, which is 50 ms maximum!). This is another difference in behavior.

Many people have been working on in-rush for over a year but it appears that not everyone

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

I checked with is aware of this change in behavior.

SuggestedRemedy

The Task Force should determine if this was the intended behavior and whether legacy PSEs will be impacted by this change. Working Group members are encouraged to review these and other changes made to PD in-rush behavior and comment on them.

A TDL should be assigned to provide correct required action if the change in behavior is not acceptable.

Proposed Response Response Status **O**

CI 33	SC 33.3.3.11	P 146	L 25	#	256	
Schindler, F	red	Seen Simply,	Cisco, T			

Comment Type TR Comment Status X

The new INRUSH state changes behavior for Type 3 and 4 PDs being power by legacy devices. The legacy Type 1 and 2 PD state diagram, on page 140, state MDI_POWER1 has statement,

"pd_max_power <= (class_sig modulo 4)", which limits the power and current for Type-2 PDs to 13.0W/37V = 0.35A.

The Type 3 and 4 PD, new state INRUSH, has statement,

"pd_current_limit <= FALSE", is defined on page 141 line 49, "The PD is not required to control the input current." A PD could be damaged if a PSE did not have a current limit requirement. A Type 2 PSE is not aware of new Type 3 and 4 PDs and sees this PD as a Type 2 device.

Many people have been working on in-rush for over a year but it appears that not everyone I checked with is aware of this change in behavior.

SuggestedRemedy

The Task Force should determine if this was the intended behavior and whether legacy PSEs will be impacted by this change. Working Group members are encouraged to review these and other changes made to PD in-rush behavior and comment on them.

A TDL should be assigned to provide correct required action if the change in behavior is not acceptable.

Proposed Response Response Status **O**

Pa	146	
Li	25	

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C/ 33 SC 33.3.3.1 Law, David	1 <i>P</i> 146 HPE	L 31	# 173	C/ 33 SC 33.3.3.1 Law. David	2 P 147 HPE	L 15	# 176
Comment Type T	Comment Status X			Comment Type T	Comment Status X		
Since pse_dll_power_ with Type 2 (see 33.5 as pse_dll_power_typ	type can only take the values .3.3, page 143, line 2), pse_dll e = 2.	1 and 2, Type 3 I_power_type > 1	and 4 map to 2 along I is actually the same		constant VOn_PD used in Figuagram' is missing from the def ature constants'.		
SuggestedRemedy				SuggestedRemedy			
	y pse_dll_power_type > 1 be c n MDI_POWER1 to MDI_POW state diagram'			,	rn on voltage (see Table 33–3	60)	
Proposed Response	Response Status O			Proposed Response	Response Status O		
C/ 33 SC 33.3.3.1	-	L 41	# 174	<i>Cl</i> 33 <i>SC</i> 33.3.3.1 Law, David	2 <i>P</i> 147 HPE	L 15	# 177
₋aw, David	HPE			Comment Type T	Comment Status X		
Comment Type T The constant VOff_PI signature constants'.	Comment Status X D is not defined in subclause 3	3.3.3.7 'Type 3 a	and Type 4 single-		constant VOff_PD used in Figu agram' is missing from the def ature constants'.		
SuggestedRemedy Add a definition of VC	ff_PD to subclause 33.3.3.7 th	nat reads as follo	DWS:	SuggestedRemedy VOff_PD PD power supply tu	rn off voltage (see Table 33–3	30)	
VOff_PD PD power supply turn	off voltage (see Table 33-30)			Proposed Response	Response Status O		
Proposed Response	Response Status 0			. <u></u>			
		1.45	# 475	Cl 33 SC 33.3.3.1 Schindler, Fred	3 P 147 Seen Simply	<i>L</i> 39 , Cisco, T	# 258
C/ 33 SC 33.3.3.1 Law, David	1 <i>P</i> 146 HPE	L 45	# 175	Comment Type TR	Comment Status X		
<i>Comment Type</i> E Typo, actions should	Comment Status X			Single-signature syste	n operations parallel Single-si ems also need to be corrected and results in fewer correction	in Dual-signatur	e systems. This
SuggestedRemedy				SuggestedRemedy		- •	-
•••	R state change the three insta	ances of '=' to rea	ad '<='.		g comments "flag-DS" to enab		
Proposed Response	Response Status O			signature systems. C	TDL to Yair to correct dual-sig of course energetic commente		
				 –time permitting. 			

Pa **147** Li **39** Page 51 of 101 12/19/2016 11:30:15 A

C/ 33 SC 33.3.3.13 P 148 L 33 # 178 Law, David HPE	C/ 33 SC 33.3.3.13 P 148 L 50 # 360 Yseboodt, Lennart Philips
Comment Type T Comment Status X The definition of the present_mps_mode(M) variable states 'Controls applying MP 33.3.8.10)'. Subclause 33.3.8.10 is 'PD pair-to-pair current unbalance' and ther seems to be an incorrect, instead subclause 33.3.9 is 'PD Maintain Power Signatu SuggestedRemedy Suggest that ' applying MPS (see 33.3.8.10) to the' should be changed to real applying MPS (see 33.3.10) to the'.	ore e'. SuggestedRemedy Add variable "VOff_PD".
Proposed Response Response Status O	Cl 33 SC 33.3.11 P 150 L 1 # <u>361</u> Yseboodt, Lennart Philips
C/ 33 SC 33.3.3.13 P 148 L 44 # 359 //seboodt, Lennart Philips	Comment Type ER Comment Status X The PD dual-sig state diagram uses V_mark_th which needs to be V_Mark_th.
Comment Type T Comment Status X "pse_power_level_mode(M) 3: The PSE has allocated the PD's requested power or Class 3 power, whichever is less. 4: The PSE has allocated the PD's requested power or Class 4 power, whichever is less.	SuggestedRemedy Fix per comment (complete figure). Proposed Response Response Status O
5: The PSE has allocated the PD's requested power or Class 5 power, whichever is less."	C/ 33 SC 33.3.3.16 P 150 L 6 # 117 Darshan, Yair Mirosemi
Only applies to value 3. For values 4 and 5 it means 2,3 or 4 class ever respectively and those only have one corresponding assigned Class. SuggestedRemedy "pse_power_level_mode(M) 3: The PSE has allocated the PD's requested power or Class 3 power, whichever is less. 4: The PSE has allocated Class 4 power. 5: The PSE has allocated Class 5 power."	s Comment Type TR Comment Status X Figure 33-33 state OFFLINE: "present_class_sig_mode(M) <= FALSE" need to be "present_class_sig_A_mode(M) <= FALSE". In addition: Missing "present_class_sig_B_mode(M) <= FALSE". SuggestedRemedy Change from: "present_class_sig_mode(M) <= FALSE" to "present_class_sig_A_mode(M <= FALSE". Add "present_class_sig_B_mode(M) <= FALSE".
Proposed Response Response Status O	Proposed Response Response Status O

Pa **150** Li 6

C/ 33 SC 33.3.3.16 Law, David	<i>P</i> 150 HPE	L 6	# 179	Cl 33 SC 33.3.16 P 150 L 8 # 115 Darshan, Yair Mirosemi
Comment Type T	Comment Status X			Comment Type TR Comment Status X
The variable present_c 'Type 3 and Type 4 dua 'Type 3 and Type 4 dua diagram. In addition the	lass_sig_mode(M) used in a al-signature PD state diagran al-signature variables' and is e variable would seem unnec node(M) and present_class_	n' is not defined not used in any essary due to th	in subclause 33.3.3.13 other state of the state	Fugure 33-33 - Dual-signature state machine , state OFFLINE: "pd_dll_enable_mode(M) <= FALSE". The pd_dll is the same for both modes. SuggestedRemedy Change from "pd_dll_enable_mode(M)" to "pd_dll_enable"
SuggestedRemedy				
	'present_class_sig_mode(M nd Type 4 dual-signature PD			Proposed Response Response Status O
Proposed Response	Response Status 0			Cl 33 SC 33.3.16 P 150 L 8 # 363 Yseboodt, Lennart Philips
CI 33 SC 33.3.3.16	P 150	L 6	# 362	Comment Type TR Comment Status X
Yseboodt, Lennart	Philips			Dual-signature state diagram in Figure 33-33, state OFFLINE.
Comment Type TR	Comment Status X			"pd_dll_enable_mode(M) <= FALSE"
Dual-signature state dia	agram in Figure 33-33, state	OFFLINE.		Variable does not exist, there is only pd_dll_enable.
"present_class_sig_mo	de(M) <= FALSE"			SuggestedRemedy
Variable does not exist				"pd_dll_enable <= FALSE"
SuggestedRemedy				Proposed Response Response Status O
"present_class_sig_A_ FALSE"	mode(M) <= FALSE" and "pr	esent_class_si	g_B_mode(M) <=	·
Proposed Response	Response Status O			Cl 33 SC 33.3.3.16 P 150 L 9 # 116
				Darshan, Yair Mirosemi
C/ 33 SC 33.3.3.16	P 150	L7	# 400	Comment Type TR Comment Status X
_aw, David	HPE	LI	# 180	Fugure 33-33 - Dual-signature state machine , state IDLE:. "pd_dll_enable_mode(M) <= FALSE".
Comment Type T	Comment Status X			The pd_dll is the same for both modes.
defined. Suggest instea	elass_sig_mode(M)' set to FA ad that present_mark_sig_A_	_mode(M) and		SuggestedRemedy Change from "pd_dll_enable_mode(M)" to "pd_dll_enable"
	node(M) should be set to FA		5.	Proposed Response Response Status O
SuggestedRemedy	mark_sig_mode(M) <= FALS	E' be replaced v	with:	
Suggest that 'present_i	- 6- ()			
Suggest that 'present_r present_mark_sig_A_n present_mark_sig_B_n				

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Page, Line Pa **150** Li **9** Page 53 of 101 12/19/2016 11:30:15 A

C/ 33 SC 33.3.3.		L 16	# 182	CI 33	SC 33.3.3.11	P 150	L 16	# 114
aw, David	HPE			Darshan, Yai	ir	Mirosemi		
omment Type TR	Comment Status X			Comment Ty	/pe E	Comment Status X		
	cation signature, measured at			Vmark_t	th doesn't exist	We have VMark_th.		
	signature as 14.5V to 20.5V. T cal Layer classification electric			SuggestedRe	emedy			
'Class event voltage	(VClass) as 14.5 V min to 20.5	5 V max.		2. Scan		rk_th to VMark_th. age 150 Type 3 and Type 4	dual-signature F	PD state diagram and
Figure 33–33 'Type 3 and Type 4 dual-signature PD state diagram' however transitions in to DO_CLASS_EVENT states where either present_class_sig_A_mode(M) or present_class_sig_B_mode(M) is set TRUE occurs when VPD_mode(M) > Vmark_th. Table 33–28 'Multiple-Event Physical Layer classification electrical requirements' defines				Proposed Re	0,	Response Status O		
item 4 'Mark event th	reshold (VMark_th) as 10.1 V	min to 14.5 V m	nax.	C/ 33	SC 33.3.3.16	P 150	L 24	# 364
	ling to the state diagrams, which re has to be presented at a vo			Yseboodt, Le	ennart	Philips		
	chosen, not 14.5 V as stated i			Comment Ty	/pe TR	Comment Status X		
uggestedRemedy Clarify if text or state	diagram is correct and correct	as required.		DO_CLA	ASS_EVENT3,	agram in Figure 33-33, state DO_CLASS_EVENT4, DO_ node(M) <= FALSE"		
oposed Response	Response Status O			Variable	does not exist.			
				SuggestedRe	emedy			
33 SC 33.3.3 .		L 16	# 181	"present	_mark_sig_mo	de(M) <= FALSE"		
aw, David	HPE			Proposed Re	esponse	Response Status 0		
omment Type T	Comment Status X							
	and Type 4 dual-signature PE yet subclause 33.3.3.12 'Type Mark_th.			C/ 33 Law, David	SC 33.3.3.16	<i>P</i> 1 50 HPE	L 27	# 183
ggestedRemedy				Comment Ty	vpe T	Comment Status X		
Change all occurrent	es of Vmark_th to read VMark	_th in Figure 33	-33.			ark_sig_A_mode(M) assign	ed in the DO CL	ASS EVENT2,
roposed Response	Response Status 0			DO_CLA addition one mark	ASS_EVENT3, what there is a k event defined	DO_CLASS_EVENT4 and I class_sig_A and a class_sig in 33.3.6.2.1. Based on this le(M) should be used instead	DO_CLASS_EVI g_B defined in 3 it seem this like	ENT5 is not defined. In 3.3.6.2 there is only
				SuggestedR	emedy			
				the DO_		_sig_A_mode(M) <= FALSE T2, DO_CLASS_EVENT3, [
				DO_CLA	ASS_EVENT5	states.		

Pa **150** Li **27**

CI 33 SC 33.3.3	.16 <i>P</i> 150	L 27	# 118	CI 33	SC 33.3.3.16	P 151	L 21	# 184		
Darshan, Yair	Mirosemi			Law, David		HPE				
Comment Type TR	Comment Status X			Comment Ty	pe T	Comment Status X				
DO_CLASS_EVEN	DO_CLASS_EVENT2, DO_CLA T5."present_mark_sig_A_mode(_mode(M) <= FALSE"			with Type		/pe can only take the values .3, page 148, line 40), pse_c = 2.				
SuggestedRemedy					SuggestedRemedy					
<= FALSE"	ent_mark_sig_A_mode(M) <= FA	LSE" to "pres	ent_mark_sig_mode(M)	2 in the t	ransition from I	pse_dll_power_type > 1 be c MDI_POWER1 to MDI_POV ate diagram!				
Proposed Response	Response Status O		4 dual-signature PD state diagram'. Proposed Response Response Status	6						
				FIODOSEO KE	sponse	Response Status 0				
CI 33 SC 33.3.3	.16 <i>P</i> 151	L 6	# 91							
Darshan, Yair	Mirosemi	_ •								
Comment Type TR Missing INRUSH st SuggestedRemedy Adopt darshan_02_	Comment Status X ate in Figure 33-33 dual-signatur 0117.pdf	e PD state mac	chine							
Proposed Response	Response Status O									
C/ 33 SC 33.3.1 Bustos, Jairo	P 151 Würth Elektroi	L 11 nik eiSo	# 27							
like to provide my s PI indefinitely without	Comment Status X ctive of proposing a remedy to C uggestion. "The PD shall withstau ut permanent damage." We tried nio, TX, but postponed the reme	nd any voltage to fix this sente	from 0 V to 57 V at the							
any voltage from 0	d be to change the above senter V to 57 V, according to any of the Pl indefinitely without permanent	e permitted pind								

Proposed Response Response Status **0**

Pa **151** Li **21**

C/ 33 SC 33.3.3.16 P 151 L 26 # 185 Law, David HPE	C/ 33 SC 33.3.4 P 153 L 21 # 224 Lukacs, Miklos Silicon Labs
Comment Type T Comment Status X The pd_dll_enabled variable conditions the transition from the MDI_POWER2 state to the DLL_ENABLE state, and is set TRUE in the DLL_ENABLE. The pd_dll_enable_mode(M) variable however is used to conditions the transition from the MDI_POWER1 state to the DLL_ENABLE state. Further, the pd_dll_enable_mode(M) variable is set FALSE in the OFFLINE state. As well as the use of the _mode(M) suffix in the latter, also note 'enabled' in pd_dll_enabled as opposed to 'enable' in pd_dll_enable_mode(M).	Comment TypeERComment StatusXThe Voffset and Vpd=2.7V markers are shifted to the left on figure 33-34.SuggestedRemedyShift Voffset and Vpd=2.7V markers to the right, correct positionProposed ResponseResponse StatusO
As an output of the two instances of Figure 33–33 'Type 3 and Type 4 dual-signature PD state diagram' the variable designation _mode(M) needs to be used and based on the definition of pd_dll_enabled in subclause 33.3.3.13 'Type 3 and Type 4 dual-signature variables' suggest that pd_dll_enabled_mode(M) be used. <i>SuggestedRemedy</i> Suggest that:	Cl 33 SC 33.3.5 P 153 L 29 # 31 Chabot, Craig UNH-IOL Comment Type E Comment Status X New PIC entry needed related to this Shall
 [1] pd_dll_enabled be changed to read pd_dll_enabled_mode(M) in subclause 33.3.3.13 (page 147, line 34) [2] pd_dll_enable_mode(M) be changed to pd_dll_enabled_mode(M) in the OFFLINE state in Figure 33-3 (page 150, line 7) [3] pd_dll_enable_mode(M) be changed to pd_dll_enabled_mode(M) in the IDLE state in Figure 33-3 (page 150, line 7) [4] !pd_dll_enable_mode(M) be changed to !pd_dll_enabled_mode(M) on the MDL_POWER1 to DLL_ENABLE transition in Figure 33-3 (page 151, line 20) [5] !pd_dll_enabled be changed to !pd_dll_enabled_mode(M) on the MDL_POWER2 to DLL_ENABLE transition in Figure 33-3 (page 151, line 27) [6] pd_dll_enabled be changed to pd_dll_enabled_mode(M) in the DLL_ENABLE state in Figure 33-3 (page 151, line 30) 	SuggestedRemedy Add New PIC Entry: Item: PD13a Feature: Detection signature for single-signature PDs Subclause: 33.3.5 Value/Comment: Present a valid detection signature on a given Mode when no voltage or current is applied to the other Mode, and present a non-valid detection signature on that Mode when any voltage between 101. V and 57.0 V is applide to either mode Status: PDSS:M Proposed Response Response Status O
Proposed Response Response Status O	C/ 33 SC 33.3.6 P 153 L 42 # 278 Stewart, Heath Linear Technology Linear Technology
C/ 33 SC 33.3.3.16 P 151 L 33 # 186	Comment Type E Comment Status X TDL from comment #148 draft 2.1
Comment Type E Comment Status X	SuggestedRemedy See stewart_01_0117.pdf
Typo, actions should use a '<=', not a '='. SuggestedRemedy In the MDI_NOPOWER state change the three instances of '=' to read '<='.	Proposed Response Response Status O
Proposed Response Response Status O	

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	42	

CI 33 SC 33.3.6 P 153 L 52 # 276	Cl 33 SC 33.3.6 P 154 L 27 # 225
Stewart, Heath Linear Technology	Lukacs, Miklos Silicon Labs
Comment Type E Comment Status X	Comment Type ER Comment Status X
The phrase "required by the PD" is not suitable	The two other state diagram is missing from sentence of "PD classification behavior
SuggestedRemedy	conforms to the state diagram in Figure 33–32." This clause is about the PD classification in general, therefore not only the Type 3 and
Change The intent of PD elegation is to provide information about the maximum power requi	Type 4 single-signature PD state diagram should be called out.
The intent of PD classification is to provide information about the maximum power requi by the PD during operation.	SuggestedRemedy
To The intent of PD classification is to provide information about the maximum power draw by the PD during operation.	Add the two other state diagrams figure number: n "PD classification behavior conforms to the state diagrams in r Figure 33–31, Figure 33–32, and Figure 33–33."
Proposed Response Response Status O	Proposed Response Response Status O
C/ 33 SC 33.3.6 P 154 L 24 # 32	Cl 33 SC 33.3.6 P 154 L 31 # 365
Chabot, Craig UNH-IOL	Yseboodt, Lennart Philips
Comment Type E Comment Status X	Comment Type E Comment Status X
New PIC entry needed related to this Shall	Table 33-24 is not very clear that the first two columns are for single-signature and the
SuggestedRemedy	other two columns are for dual-signature.
Juggostourtemeuy	
Add New PIC Entry:	SuggestedRemedy
Add New PIC Entry: Item: PD21b	
Add New PIC Entry: Item: PD21b Feature: Classification signature Subclause: 33.3.6	Add row on top with two fields, first cell is named "single-signature" and spans first two columns, second cell is named "dual-signature" and spans last two columns.
Add New PIC Entry: Item: PD21b Feature: Classification signature Subclause: 33.3.6 Value/Comment: Conform to the characterisitics specified in Table 33-25	Add row on top with two fields, first cell is named "single-signature" and spans first two columns, second cell is named "dual-signature" and spans last two columns. Add "for Mode M" to "Assigned Class" for dual-signature.
Add New PIC Entry: Item: PD21b Feature: Classification signature Subclause: 33.3.6 Value/Comment: Conform to the characterisitics specified in Table 33-25 Status: M	Add row on top with two fields, first cell is named "single-signature" and spans first two columns, second cell is named "dual-signature" and spans last two columns.
Add New PIC Entry: Item: PD21b Feature: Classification signature Subclause: 33.3.6 Value/Comment: Conform to the characterisitics specified in Table 33-25 Status: M	Add row on top with two fields, first cell is named "single-signature" and spans first two columns, second cell is named "dual-signature" and spans last two columns. Add "for Mode M" to "Assigned Class" for dual-signature. Proposed Response Response Status
Add New PIC Entry: Item: PD21b Feature: Classification signature Subclause: 33.3.6 Value/Comment: Conform to the characterisitics specified in Table 33-25 Status: M	Add row on top with two fields, first cell is named "single-signature" and spans first two columns, second cell is named "dual-signature" and spans last two columns. Add "for Mode M" to "Assigned Class" for dual-signature. Proposed Response Response Status Cl 33 SC 33.3.6 P 154 L 42 # 366
Add New PIC Entry: Item: PD21b Feature: Classification signature Subclause: 33.3.6 Value/Comment: Conform to the characterisitics specified in Table 33-25 Status: M	Add row on top with two fields, first cell is named "single-signature" and spans first two columns, second cell is named "dual-signature" and spans last two columns. Add "for Mode M" to "Assigned Class" for dual-signature. Proposed Response Response Status C/ 33 SC 33.3.6 P 154 L 42 # 366 Yseboodt, Lennart Philips
Add New PIC Entry: Item: PD21b Feature: Classification signature Subclause: 33.3.6 Value/Comment: Conform to the characterisitics specified in Table 33-25 Status: M	Add row on top with two fields, first cell is named "single-signature" and spans first two columns, second cell is named "dual-signature" and spans last two columns. Add "for Mode M" to "Assigned Class" for dual-signature. Proposed Response Response Status Cl 33 SC 33.3.6 P 154 L 42 # 366
Add New PIC Entry: Item: PD21b Feature: Classification signature Subclause: 33.3.6 Value/Comment: Conform to the characterisitics specified in Table 33-25 Status: M	Add row on top with two fields, first cell is named "single-signature" and spans first two columns, second cell is named "dual-signature" and spans last two columns. Add "for Mode M" to "Assigned Class" for dual-signature. Proposed Response Response Status C/ 33 SC 33.3.6 P 154 L 42 # 366 Yseboodt, Lennart Philips Comment Type T Comment Status X In column "PDMaxPowerValue_mode(M)" the range "256 to 400" is too small.
Add New PIC Entry: Item: PD21b Feature: Classification signature Subclause: 33.3.6 Value/Comment: Conform to the characterisitics specified in Table 33-25 Status: M	Add row on top with two fields, first cell is named "single-signature" and spans first two columns, second cell is named "dual-signature" and spans last two columns. Add "for Mode M" to "Assigned Class" for dual-signature. Proposed Response Response Status Cl 33 SC 33.3.6 P 154 L 42 # Yseboodt, Lennart Philips Comment Type T Comment Status X In column "PDMaxPowerValue_mode(M)" the range "256 to 400" is too small. This should be the same as the PSE variable: 256 to 499.

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ewart, Heath Linear Technology omment Type E Comment Status X TDL from comment #26 draft 2.1. InggestedRemedy InggestedRemedy See stewart_01_0117.pdf Ingposed Response Response Status O	Yseboodt, Lennart Philips Comment Type T Comment Status X "PDs implementing Multiple-Event Physical Layer classification shall present class_i during DO_CLASS_EVENT1 and DO_CLASS_EVENT2 and class_sig_B during DO_CLASS_EVENT3, DO_CLASS_EVENT4, DO_CLASS_EVENT5 and DO_CLASS_EVENT6, as defined in Table 33-26 and Table 33-27."					
TDL from comment #26 draft 2.1. uggestedRemedy See stewart_01_0117.pdf	"PDs implementing Multiple-Event Physical Layer classification shall present class_ during DO_CLASS_EVENT1 and DO_CLASS_EVENT2 and class_sig_B during DO_CLASS_EVENT3, DO_CLASS_EVENT4, DO_CLASS_EVENT5 and					
oposed Response Response Status O						
	This description applies to Type 2 as well, but isn`t correct for that Type. Since ME-classification is mandatory for Type 2, 3 and 4 we can keep it compact.					
33 SC 33.3.6.1 P 155 L 8 # 367	SuggestedRemedy					
eboodt, Lennart Philips	"Type 2 PDs shall present class_sig_A during DO_CLASS_EVENT1, DO_CLASS_EVENT2, and DO_CLASS_EVENT3, as defined in Table 33-26.					
omment Type TR Comment Status X "The PD's classification behavior shall conform to the electrical specifications defined in Table 33-28."	Type 3 and Type 4 PDs shall present class_sig_A during DO_CLASS_EVENT1 and DO_CLASS_EVENT2 and class_sig_B during DO_CLASS_EVENT3, DO_CLASS_EVENT4, DO_CLASS_EVENT5 and DO_CLASS_EVENT6, as defined Table 33-26 and Table 33-27."					
Table 33-28 is the Multiple-Event classification table. Somehow this requirement ended up in the Single-Event section.	Proposed Response Response Status O					
TODO: the whole section is a mess.	C/ 33 SC 33.3.6.2 P156 L7 # 187					
lggestedRemedy	Law, David HPE					
No time to re-write this section now, add to TDL "Restructure PD classification section".	Comment Type E Comment Status X					
oposed Response Response Status O	While a note has been added to Table 33–26 and Table 33–27 referencing Table 33 isn't entirely clear that it is in reference to the values in the class_sig_A and class_si columns.					
	SuggestedRemedy					
	Add a header that straddles the class_sig_A and class_sig_B header that reads 'Class signature' to Table 33-26 and 33-27.					
	Proposed Response Response Status O					
	Cl 33 SC 33.3.6.2 P156 L 28 # 369					
	Yseboodt, Lennart Philips					
	Comment Type E Comment Status X Table 33-26 and 33-27, Note below table does not align with table boundary.					
	SuggestedRemedy Set cell margin to zero.					
	-					

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn Li 28 12/19/2016 11:30:15 A SORT ORDER: Page, Line

C/ 33 SC 33.3.6.2 Lukacs, Miklos	P 156 Silicon Labs	L 50	# 226	C/ 33 SC 33.3.6.2 P 157 L 16 # 370 Yseboodt, Lennart Philips
Comment Type ER	Comment Status X			Comment Type TR Comment Status X
This text is confusing:	on each pairset is the power re	equested by the	PD on that	In Table 33-28 the variables V_Class, V_Mark, and V_Reset are defined. They are also defined in Table 33-16 in PSE land (with different values).
SuggestedRemedy				SuggestedRemedy
Change the text to:	on each pairset defines the po	wer requested	by the PD on that	Rename in Table 33-28: V_Class => V_Class_PD V_Mark => V_Mark_PD V_Reset => V_Reset_PD
Proposed Response	Response Status 0			Update parameter names in 33.3 per the rename.
				Proposed Response Response Status O
Cl 33 SC 33.3.6.2	P 157	L 1	# 33	
Chabot, Craig	UNH-IOL			CI 33 SC 33.3.6.2 P 157 L 28 # 371
Comment Type E New PIC entry needed	Comment Status X			Yseboodt, Lennart Philips
SuggestedRemedy Add New PIC Entry: Item: PD32a Feature: PSE assigned Subclause: 33.3.6.2 Value/Comment: As de	d Class identification for Type	3 and Type 4 s	ingle-signature PDs	Table 33-28 on Multiple-Event class, Item 7 is on T_LCE_PD. The add. info field points to the 33.3.9 MPS section, which does not explain why we hav LCE. SuggestedRemedy Replace 33.3.9 by 33.3.7 which is about PSE Type identification.
Status: PDT3*PDSS:M				Proposed Response Response Status O
Proposed Response	Response Status 0			
C/ 33 SC 33.3.6.2 Chabot, Craig	Р 157 UNH-IOL	L 7	# 34	
Comment Type E New PIC entry needed	Comment Status X related to this Shall			
SuggestedRemedy				
Add New PIC Entry: Item: PD32b		3 and Type 4 d	ual-signature PDs	
Proposed Response	Response Status O			

Proposed Response Response Status **0**

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/ 33 SC 33.3.6.2.1 P 157 L 33 # 188 Law, David HPE	C/ 33 SC 33.3.6.2.1 P 157 L 41 # 190 Law, David HPE			
Comment Type T Comment Status X This text states 'When the PD is presenting a mark event signature as shown in the state diagram' which would appear to mean that when the PD state diagram is in a DO_MARK_EVENT state and therefore present_mark_sig or present_mark_sig_mode(M) is set TRUE. This seems to be confirmed by the description of the present_mark_sig and present_mark_sig_mode(M) variables which state 'Controls presenting the mark event current and impedance (see 33.3.6.2.1) by the PD' however they don't use the terminology 'mark event signature'. SuggestedRemedy Suggest the text ' is presenting a mark event signature as shown' be changed to read ' is presenting a mark event signature in a DO_MARK_EVENT state as shown'. Proposed Response Response Status 0	Comment Type T Comment Status X It is stated that 'VMark_th is the PI voltage threshold at which the PD transitions into out of the DO_CLASS_EVENT1 states as shown in Figure 33–32.'. While VMark_th the only PI voltage threshold to transition into a DO_CLASS_EVENT state, VPD in exca of the VOn_PD threshold will also cause a transition out of a DO_CLASS_EVENT (see DO_CLASS_EVENT1 in Figure 33–32). Suggest that ' transitions into and out of the DO_CLASS_EVENT1' BE CHANGED READ ' transitions into, and one of the voltage thresholds to transition out of, the DO_CLASS_EVENT1'. Proposed Response Response Status O			
Cl 33 SC 33.3.6.2.1 P 157 L 41 # 189 Law, David HPE Comment Type E Comment Status X Rather than list all of the states suggest using a similar shorthand to the paragraph below in respect to DO_MARK_EVENT states. SuggestedRemedy Suggest that ' of the DO_CLASS_EVENT1, DO_CLASS_EVENT2, DO_CLASS_EVENT3, DO_CLASS_EVENT4, DO_CLASS_EVENT5 or DO_CLASS_EVENT6 states' be changed to read ' a DO_CLASS_EVENT state'. Proposed Response Response Status O	Cl 33 SC 33.3.6.2.1 P 157 L 42 # 191 Law, David HPE HPE Image: text of tex of text of text of tex of text of text of tex of tex of text of t			
	Stewart, Heath Linear Technology Comment Type E Comment Status X All PD SM figures should be referenced SuggestedRemedy			

See stewart_01_0117.pdf

Response Status 0

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Li **42**

Proposed Response

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

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C/ 33 SC 33.3.6.2.1 P 157 L 44 # [192] Law, David HPE	C/ 33 SC 33.3.6.3 P 158 L 15 # 372 Yseboodt, Lennart Philips
Comment Type T Comment Status X The first paragraph of this subclause states 'When the PD is presenting a mark event	Comment Type ER Comment Status X Table 33-29 lists T_ACS in seconds resulting in "0.0755" and "0.0875".
signature as shown in the state diagram'. As noted in another comment this seems to map to when the state diagram is in a DO_MARK_EVENT state, hence the first paragraph already states that when in a DO_MARK_EVENT state the PD shall draw IMark, and adds the other requirement, not listed in this paragraph, that the PD has to also present a non-valid detection signature. Based on this the paragraph seems to contain a duplicate, but potentially incomplete, requirement.	This is the result of comment #156/D2.1 which has good rationale but a bad remedy. SuggestedRemedy Revert Table 33-29 back to milliseconds. Also convert Table 33-17 to milliseconds.
SuggestedRemedy	Proposed Response Response Status O
Delete 4th paragraph of subclause 33.3.6.2.1.	
Proposed Response Response Status O	CI 33 SC 33.3.7 P 158 L 36 # 35 Chabot, Craig UNH-IOL
P 133 SC 33.3.6.2.1 P 157 L 47 # 193 aw, David HPE	Comment Type E Comment Status X New PIC entry needed related to this Shall
Somment Type T Comment Status X Isn't the statement made in this paragraph that 'VReset_th is the PI voltage threshold at which the PD implementing Multiple-Event class signature transitions from a DO_MARK_EVENT state to the IDLE' also true for Figure 33–31 'Type 1 and Type 2 PD state diagram' (see transition from DO_MARK_EVENT1 to IDLE) and Figure 33–33 'Type 3 and Type 4 dual-signature PD state diagram' (see transition from DO_MARK_EVENT1 to IDLE)?	SuggestedRemedy Add New PIC Entry: Item: PD40a Feature: long_class_event value Subclause: 33.3.7 Value/Comment: Set to TRUE if the first class event is longer than TLCE_PD max Status: PDT3:O PDT4:O
uggestedRemedy	Proposed Response Response Status O
Suggest that ' in Figure 33-32.' Should be changed to read ' in Figures 33-31, 33-32	
and 33-33.'. Proposed Response Response Status O	C/ 33 SC 33.3.8 P 159 L 24 # 373 Yseboodt, Lennart Philips
	Comment Type E Comment Status X There are many references in green in Table 33-30. Not sure how this happened.
	SuggestedRemedy Change character tag back to normal text.

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Pa **159**

Li **24**

C/ 33 SC 33.3.8 P 159	L 35 # 374	C/ 33 SC 33.3.8 P 160 L 22 # 377 Yseboodt, Lennart Philips				
seboodt, Lennart Philips comment Type ER Comment Status X Table 33-30, Item 6, the linrush PD description reads "Input inrush current per the assigned Class, when the inrush period per 33.3.8.3." This is OBE by our improved inrush text in 33.3.8.3. ruggestedRemedy Replace by: "Input inrush current per the assigned Class for the period per 35.3.8.3."	e PD is limiting the current during the	Comment Type ER Comment Status X Table 33-30, PPeak_PD-2P. To be more in line with earlier decision to write things out as numbers, propose to replace the equation by values. This avoids that one needs to flip back to the PClass_PD table to look up the required value. SuggestedRemedy Change Item 10 Values to: Class 1 5.00 Class 2 8.36 Class 0.3 14.4				
C/33 SC 33.3.8 P 160 Seboodt, Lennart Philips Comment Type ER Comment Status X Table 33-30, Item 7, the linrush PD-2P description re "Input inrush current per pairset per the assigned Classing the input here the second per 20.0 °"		Class 4 28.3 Class 5 37.2 Proposed Response Response Status O Cl 33 SC 33.3.8 P 160 L 22 # 376				
during the inrush period per 33.3.8.3." This is OBE by our improved inrush text in 33.3.8.3. <i>SuggestedRemedy</i> Replace by: "Input inrush current per pairset per the service of the ser	ssigned Class."	Yseboodt, Lennart Philips Comment Type ER Comment Status X Table 33-30, PPeak_PD. To be more in line with earlier decision to write things out as numbers, propose to replace the equation by values. This avoids that one needs to flip back to the PClass_PD table to look up the required value.				
		SuggestedRemedy Change Item 10 Values to: Class 1 5.00 Class 2 8.36 Class 4 28.3 Class 5 42.0 Class 6 53.5 Class 7 65.1 Class 8 74.8				

Proposed Response Response Status **0**

Pa **160** Li **22**

CI 33 SC 33.3.8.4	P 160	L 23	# 379	CI 33 SC 33.3.8	P 160	L 44	# 128
seboodt, Lennart	Philips			Johnson, Peter	Sifos Techn	ologies	
Comment Type TR	Comment Status X			Comment Type T	Comment Status X		
	on for unbalance for PDs drav ave a full page of equations e			Table 33-30, item 1 This may be confus	2, defines "Input current transion ing to some.	ent", Itransient, wi	th units of mA/usec.
SuggestedRemedy Add to TDL: specify pe	eak power unbalance limits fo	r the PD.		From a EE perspec with units "mA/usec	tive, "I" is a current with units n	nA. dl/dT would b	be a current slew rate
At this point I would st	rongly suggest we simplify the	e peak unbaland		SuggestedRemedy			
	e will get another page of equ	lations for the P	D peak unbalance.		"Input current transient" to "Inp	out current slew ra	ate" with variable "dl/dT
Proposed Response	Response Status O			or something like th			
C/ 33 SC 33.3.8	P 160	L 23	# 378	Then modify 33.3.8	.5 to:		
seboodt, Lennart	Philips				tage at the PI is static and in th		
Comment Type T	Comment Status X				tal input current drawn by a sin ined in Table 33-30, in either p		
	"Peak operating power".				while powered 4-pair shall not c		
				Table 33-30, in eith	er polarity. This limitation appl		
This parameter depen	ds on the assigned Class and	applies only to	single-signature.	and before the PD h	has disconnected."		
SuggestedRemedy				Proposed Response	Response Status 0		
Change Item 10 Parar single-signature PDs"	meter name to "Peak operatin	g power per the	assigned Class for				
Proposed Response	Response Status O			<i>Cl</i> 33 <i>SC</i> 33.3.8 Yseboodt, Lennart	P 161 Philips	L 11	# 381
				Comment Type E	Comment Status X		
C/ 33 SC 33.3.8	P 160	L 33	# 380	Table 33-30, Item 1	5, Ripple and noise also has n	o name.	
seboodt, Lennart	Philips			SuggestedRemedy			
Comment Type T	Comment Status X			Name it V_Noise_P	D.		
Table 33-18, Item 11,	"Peak operating power over a	a pairset".		Proposed Response	Response Status 0		
This parameter depen	ds on the assigned Class and	applies only to	dual-signature.				
SuggestedRemedy							
Change Item 11 Parar Class for dual-signatur	meter name to "Peak operatin re PDs"	ng power on a pa	airset per the assigned				
Proposed Response	Response Status 0						

Pa 161 Li 11

C/ 33 SC 33.3.8	P 161 Cisco	L 18	# 140	C/ 33 SC 3 Chabot, Craig	3.3.8.2	<i>P</i> 162 UNH-IOL	L 31	# 36
Jones, Chad Cisco Comment Type TR Comment Status X Table 33-30, item 16. Von_PD min was changed to 30V. This used to be 37V. Changing it to 30V aligns it with Voff_PD. A designer that sets Von_PD to 30V will get a motorboating PD as the PD will turn on, start to draw load, and pull down Vport below Voff_PD 37V was specifically picked to add hysteresis to prevent this. SuggestedRemedy we need to find a better value for Von_PD min. Proposed Response Response Status O		Comment Type New PIC entry SuggestedRemedy Add New PIC E Item: PD45a Feature: Power Subclause: 33.	needed related	ment Status X				
exceed a power consun from the text that: PDs cannot require thro This information is not o the current power alloca	,	e as defined in 3 ne required clas alue (this is only	3.5.3.3." It is not clear s. maximum power under	Yseboodt, Lennart Comment Type "For Class 6 ar the PD regardir may consume PSE PI and sha	3.3.8.2.1 TR Com Id Class 8 single Ig actual chann greater than P C all not draw curr	el DC resistance bet	ween the PSE P ot consume grea able as defined ir	
shall not exceed a powe	nges: "PDs that have succes er consumption of PDMaxPo aximum power that the PD w <i>Response Status</i> 0	werValue as de		the PD regardir may consume	ng actual chann greater than P C	el DC resistance bet Class_PD but shall no	ween the PSE P ot consume grea	ormation is available to I and the PD PI, the P ater than P Class at the able as defined in Tab

Proposed Response Response Status **O**

Pa **162** Li **40**

C/ 33 SC 33.3.8.2.1 P 162 L 40 # 93 Darshan, Yair Mirosemi	C/ 33 SC 33.3.8.2.1 P 162 L 45 # 449 Zimmerman, George CME Consulting, Aqua
Comment Type TR Comment Status X In the text: "For Class 6 and Class 8 single-signature PDs, when additional information is available to the PD regarding actual channel DC resistance between the PSE PI and the PD PI, the PD may consume greater than PClass_PD but shall not consume greater than PClass at the PSE PI and shall not draw current in excess of ICable as defined in Table 33–1." it is not clear that the current can be >Icable on one pair and lower than Icable on the 2nd pair. SuggestedRemedy Change text to: "For Class 6 and Class 8 single-signature PDs, when additional information is available to the PD regarding actual channel DC resistance between the PSE PI and the PD PI, the PD may consume greater than PClass_PD but shall not	Comment Type E Comment Status X "and shall not draw current in excess of ICable as defined in Table 33-1" - ICable is the nominal current per pairset. Since this is a key requirement on current draw, this text should reflect that so as not to be confused with total current or current per pair including unbalance effects. SuggestedRemedy Change "and shall not draw current in excess of ICable" to "and shall not draw nominal current per pairset in excess of ICable" Proposed Response Response Status O
consume greater than PClass at the PSE PI and shall not draw current in excess of 2xlCable. Icable is defined in Table 33–1.Proposed ResponseResponse StatusO	C/ 33 SC 33.3.8.2.2 P 163 L 1 # 450 Zimmerman, George CME Consulting, Aqua Employed and advantage CME Consulting, Aqua Employed and advantage Employed andvantage Employed andvantage E
Cl 33 SC 33.3.8.2.1 P 162 L 44 # 37 Chabot, Craig UNH-IOL Comment Type E Comment Status X New PIC entry needed related to this Shall	Comment Type E Comment Status X "Verification of stability is achieved when the PD ripple and noise content as defined in Table 33–30 is met while the PD is operating at or below PPort_PD or PPort_PD-2P while being powered by a voltage source set in the range of VPort_PSE-2P, as defined in Table 33–18, through a series resistance with value RCh, as defined in Table 33–1." - very wordy, hard to follow multiple conditions, 2 while clauses and a load condition.
SuggestedRemedy Add New PIC Entry: Item: PD46a Feature: Input average power for Class 5 dual-signature PDs Subclause: 33.3.8.2.1	SuggestedRemedy Change to "Verification of stability is achieved by the PD meeting the ripple and noise content in Table 33–30 when the PD is powered by a voltage source set in the range of VPort_PSE-2P (see Table 33–18), through a series resistance of RCh (see Table 33–1), and the PD is operating at or below PPort_PD or PPort_PD-2P."
Value/Comment: Not to consume greater power than Pclass-2P at the PSE PI and not to draw current in excess of Icable as defined in Tablle 33-1 Status: WEXP:M	Proposed Response Response Status O

Pa **163** Li **1**

	3.8.4	P 163	L 52	# 383	C/ 33	SC 33.3.8.4	P 164	L 31	# 39
seboodt, Lennart	F	Philips			Chabot, Cra	aig	UNH-IOL		
omment Type T	R Comment St	atus X			Comment 7	Туре Е	Comment Status X		
	age at the PI, and any				New PI	IC entry needed	related to this Shall		
Class_PD for mo Peak operating p	.8.4.1, the peak powe re than T CUT-2P mir ower shall not exceed signature' was added	n, as defined i I P Peak_PD.'	n Table 33-18 a "		Item: P	ew PIC Entry: PD55b	g power for for dual-signaur	e PDs	
for legacy Types.					Subcla	use: 33.3.8.4			
uggestedRemedy						Comment: Not to PDDS:M	exceed Ppeak_PD-2P		
described in 33.3 not exceed P Cla	age at the PI, and any .8.4.1, the peak powe ss_PD for more than operating power shall	r for a Type 1 T CUT-2P mi	, Type 2, or sing n, as defined in	gle-signature PDs shall	Proposed F		Response Status O		
roposed Response	Response Sta		roun_rb.		CI 33	SC 33.3.8.2.	2 <i>P</i> 164	L 33	# 141
specca recipence					Jones, Cha	ad	Cisco		
					Comment 7	Type ER	Comment Status X		
33 SC 33.		P 164	L 30	# 38	looks li	ke a cut and pas	ste error, whole paragraph a	t line 33.	
abot ('raig						•	1 0 1		
labot, Clary	L L	JNH-IOL			Suggestedl	Remedy			
omment Type E New PIC entry ne		atus X			delete t operatii signatu	the paragraph o ng condition, wit ire shall not exce	n page 164, line 33: "At any th the exception described in eed PClass_PD-2P for more cle. Peak operating power sl	n 33.3.8.4.1, the p e than TCUT-2P r	peak power for a dual- min, as defined in Tab
omment Type E New PIC entry ne uggestedRemedy Add New PIC En Item: PD55a	Comment St. eeded related to this S	tatus X Shall	n, with exceptior	n described in	delete t operatii signatu	the paragraph o ng condition, wit ire shall not exc and 5% duty cyc	h the exception described in	n 33.3.8.4.1, the p e than TCUT-2P r	peak power for a dual- min, as defined in Tab
Mement Type E New PIC entry ne aggestedRemedy Add New PIC En Item: PD55a Feature: Peak pc 33.3.8.4.1 for dua Subclause: 33.3. Value/Comment:	Comment St eeded related to this S try: wer for any PD opera al-signature PDs	ting condidtio			delete t operatil signatu 33–18 a	the paragraph o ng condition, wit ure shall not exce and 5% duty cyc Response SC 33.3.8.4	th the exception described in eed PClass_PD-2P for more cle. Peak operating power sh	n 33.3.8.4.1, the p e than TCUT-2P r	peak power for a dual- min, as defined in Tab
Mement Type E New PIC entry ne aggestedRemedy Add New PIC En Item: PD55a Feature: Peak po 33.3.8.4.1 for dua Subclause: 33.3.	Comment St eeded related to this S try: wer for any PD opera al-signature PDs 8.4	ting condidtio			delete t operatii signatu 33–18 a Proposed F	the paragraph o ng condition, wi ure shall not exc and 5% duty cyc Response SC 33.3.8.4 Lennart	th the exception described in eed PClass_PD-2P for more cle. Peak operating power st <i>Response Status</i> O <i>P</i> 164	n 33.3.8.4.1, the p e than TCUT-2P r nall not exceed P	beak power for a dual- min, as defined in Tab Peak_PD-2P."
New PIC entry ne aggestedRemedy Add New PIC En Item: PD55a Feature: Peak pc 33.3.8.4.1 for dua Subclause: 33.3. Value/Comment: cycle	Comment St eeded related to this S try: wer for any PD opera al-signature PDs 8.4	ting condidtio			delete t operatii 33–18 a Proposed F CI 33 Yseboodt, I Comment 7	the paragraph o ng condition, wit ire shall not exca and 5% duty cyc Response SC 33.3.8.4 Lennart Type ER	th the exception described in eed PClass_PD-2P for more cle. Peak operating power sh <i>Response Status</i> 0 <i>P</i> 164 Philips	a 33.3.8.4.1, the p e than TCUT-2P r nall not exceed P <i>L</i> 33	beak power for a dual- min, as defined in Tab Peak_PD-2P."
New PIC entry ne New PIC entry ne New PIC entry ne New PIC entry ne New PIC Entry Add New PIC Entry Teature: Peak po 33.3.8.4.1 for dua Subclause: 33.3. Value/Comment: cycle Status: PDDS:M	Comment St eeded related to this S try: wer for any PD opera al-signature PDs 8.4 Not to exceed Pclass	ting condidtio			Cl 33 Cl 33 Yseboodt, I Comment 1 This pa	the paragraph o ng condition, wit ure shall not exc and 5% duty cyc Response SC 33.3.8.4 Lennart Type ER aragraph is a du Remedy	th the exception described in eed PClass_PD-2P for more cle. Peak operating power st <i>Response Status</i> O <i>P</i> 164 Philips <i>Comment Status</i> X	a 33.3.8.4.1, the p e than TCUT-2P r nall not exceed P <i>L</i> 33	beak power for a dual- min, as defined in Tab Peak_PD-2P."

Pa **164** Li **33**

Cl 33 SC 33.3.8.4 Darshan, Yair	P 164 Mirosemi	L 33	# 94	CI 33 SC 33.3.8.4 P 164 L 39 Yseboodt, Lennart Philips	# 385
Comment Type ER	Comment Status X			Comment Type TR Comment Status X	
described in 33.3.8.4. 2P for more than TCU	voltage at the PI, and any PI 1, the peak power for a dual- T-2P min, as defined in Table not exceed PPeak_PD-2P." a	signature shall no e 33–18 and 5% (t exceed PClass_PD- duty cycle. Peak	In the peak power section we have text from P164 line 29 through P16 defines IPort_RMS and IPort_RMS_max. Without this text, a PD would be allowed to consume PClass	
SuggestedRemedy To delete lines 33-36				that PPeak_PD with 5% duty cycle. With this text, the maximum PD power consumption is boun any peaks included.	
Proposed Response	Response Status O			Given a PD that makes maximum use of peak power, this tradifference of 0.5% for 2-pair and 0.25% for the 4-pair classes.	anslates to a
C/ 33 SC 33.3.8.4 Chabot, Craig	<i>P</i> 164 UNH-IOL	L 33	# 40	On top of that I don`t see any text that allows a PSE to make is required to support Pclass_PD PLUS the 5% of PPeak.	e use of this, a PSE
Comment Type E	Comment Status X			This seems a requirement and full page of text which does v	very little.
The paragraph from lin above it.	nes 33 through 36 appear to l	ce a duplicate wit	th paragraph directly	SuggestedRemedy	
SuggestedRemedy Delete paragraph.				Remove P164 line 29 through P165 line 23. Remove P165 line 39 through P166 line 15. (= the same for the Peak Class 6/8)	power exception
Proposed Response	Response Status O			Proposed Response Response Status O	
				Cl 33 SC 33.3.8.4 P 165 L 13 Yseboodt, Lennart Philips	# 386
				Comment Type E Comment Status X Equation 33-26 defines "I_port_RMS_max".	
				Port should be capitalized.	
				SuggestedRemedy Change to "I_Port_RMS_max"	
				Ditto for equations 33-27 and 33-28.	

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Pa **165**

Li 13

C/ 33 SC 33.3.8.4.1	P 165	L 34	# 387	C/ 33 SC 33.8.4.1	P 165	L 36	# 451
rseboodt, Lennart	Philips			Zimmerman, George	CME Consult	ing, Aqua	
	ent Status X			Comment Type E	Comment Status X		
In 33.3.8.4.1 there are two referen maximum, not a range.	ices to PPort_PD m	nax (line 34 and	d 36). PPort_PD *is* a	"PPort_PD max" isn't actuation just put it in the equation (i of PPort_PD can just be re	t is PClass_PD in Table 3	33-30) In fact, it	looks like all instance
SuggestedRemedy Remove 'max' twice.				because they seem to refe		nu the paramete	
Proposed Response Respons	se Status O			SuggestedRemedy			
				Delete PPort_PD from Tab on line 34 and 36, page 25			the text with PClass_P
C/ 33 SC 33.3.8.4.1	P 165	L 35	# 95	Proposed Response F	Response Status O		
Darshan, Yair Comment Type ER Comme	Mirosemi ent Status X			C/ 33 SC 33.8.4.1	P 165	L 37	# 452
In the text "For Class 6 and Class				Zimmerman, George	CME Consult	ing, Aqua	
PDs, when additional information i resistance between the PSE PI an				Comment Type E	Comment Status X		
voltage at the PI, the peak power	shall not exceed PI	Port_PD max fo	or single-signature PDs	"PPort_PD-2P max" isn't a else, just put it in the equa			
and PPort-2P max for dual-signatu signature PDs".	ure PDs" It should	d be "PPort_PL	D-2P max for dual-	instances of PPort_PD-2P PPort_PD-2P eliminated, I	can just be replaced by F	PClass_PD-2P,	, and the parameter
signature PDs". SuggestedRemedy	ure PDs" It shoul	d be "PPort_PL	J-2P max for dual-	instances of PPort_PD-2P	can just be replaced by F	PClass_PD-2P,	, and the parameter
signature PDs". SuggestedRemedy Change to: "For Class 6 and Class 8 single-s additional information is available	signature PDs and f to the PD regarding	or Class 5 dual	I-signature PDs, when el DC resistance	instances of PPort_PD-2P PPort_PD-2P eliminated, I	can just be replaced by F because they seem to refo Table 33-30, and replace and page 163 line 2, also	PClass_PD-2P, erence "at or be PPort_PD-2P r o, change PPort	, and the parameter low". max in the text with -2P on line 35 to
signature PDs". SuggestedRemedy Change to: "For Class 6 and Class 8 single-s	signature PDs and f to the PD regarding PI, in any operating ed PPort_PD max f	for Class 5 dual g actual channe condition with a	I-signature PDs, when el DC resistance any static voltage at the	instances of PPort_PD-2P PPort_PD-2P eliminated, t SuggestedRemedy Delete PPort_PD-2P from PClass_PD-2P on line 37, PClass_PD-2P, as PPort-2	can just be replaced by F because they seem to refo Table 33-30, and replace and page 163 line 2, also	PClass_PD-2P, erence "at or be PPort_PD-2P r o, change PPort	, and the parameter low". max in the text with -2P on line 35 to
signature PDs". SuggestedRemedy Change to: "For Class 6 and Class 8 single-s additional information is available between the PSE PI and the PD P PI, the peak power shall not excee PPort_PD-2P max for dual-signatu	signature PDs and f to the PD regarding PI, in any operating ed PPort_PD max f	for Class 5 dual g actual channe condition with a	I-signature PDs, when el DC resistance any static voltage at the	instances of PPort_PD-2P PPort_PD-2P eliminated, t SuggestedRemedy Delete PPort_PD-2P from PClass_PD-2P on line 37, PClass_PD-2P, as PPort-2	can just be replaced by F because they seem to refo Table 33-30, and replace and page 163 line 2, also 2P seems to be a typo mi	PClass_PD-2P, erence "at or be PPort_PD-2P r o, change PPort	, and the parameter low". max in the text with -2P on line 35 to
signature PDs". SuggestedRemedy Change to: "For Class 6 and Class 8 single-s additional information is available between the PSE PI and the PD F PI, the peak power shall not excee PPort_PD-2P max for dual-signature Proposed Response Response	signature PDs and f to the PD regarding PI, in any operating ed PPort_PD max f ure PDs" se Status O	for Class 5 dual g actual channe condition with a for single-signal	I-signature PDs, when el DC resistance any static voltage at the ture PDs and	instances of PPort_PD-2P PPort_PD-2P eliminated, t SuggestedRemedy Delete PPort_PD-2P from PClass_PD-2P on line 37, PClass_PD-2P, as PPort-2	can just be replaced by F because they seem to refo Table 33-30, and replace and page 163 line 2, also 2P seems to be a typo mi	PClass_PD-2P, erence "at or be PPort_PD-2P r o, change PPort	, and the parameter low". max in the text with -2P on line 35 to
signature PDs". SuggestedRemedy Change to: "For Class 6 and Class 8 single-s additional information is available between the PSE PI and the PD P PI, the peak power shall not exceet PPort_PD-2P max for dual-signature Proposed Response Response Cl 33 SC 33.3.8.4.1	signature PDs and f to the PD regarding PI, in any operating ed PPort_PD max f ure PDs" se Status O P 165	for Class 5 dual g actual channe condition with a or single-signat	I-signature PDs, when el DC resistance any static voltage at the	instances of PPort_PD-2P PPort_PD-2P eliminated, t SuggestedRemedy Delete PPort_PD-2P from PClass_PD-2P on line 37, PClass_PD-2P, as PPort-2 Proposed Response Cl 33 SC 33.3.8.6 Yseboodt, Lennart	can just be replaced by F because they seem to refe Table 33-30, and replace and page 163 line 2, also 2P seems to be a typo mi Response Status O P 166	PClass_PD-2P, erence "at or be PPort_PD-2P r o, change PPort ssing the "_PD"	, and the parameter low". max in the text with -2P on line 35 to
signature PDs". SuggestedRemedy Change to: "For Class 6 and Class 8 single-s additional information is available between the PSE PI and the PD P PI, the peak power shall not excee PPort_PD-2P max for dual-signatu Proposed Response Response C/ 33 SC 33.3.8.4.1 Simmerman, George	signature PDs and f to the PD regarding PI, in any operating ed PPort_PD max f ure PDs" se <i>Status</i> O <i>P</i> 165 CME Consultin	for Class 5 dual g actual channe condition with a or single-signat	I-signature PDs, when el DC resistance any static voltage at the ture PDs and	instances of PPort_PD-2P PPort_PD-2P eliminated, t SuggestedRemedy Delete PPort_PD-2P from PClass_PD-2P on line 37, PClass_PD-2P, as PPort-2 Proposed Response Cl 33 SC 33.3.8.6 Yseboodt, Lennart	can just be replaced by F because they seem to refe Table 33-30, and replace and page 163 line 2, also 2P seems to be a typo mi Response Status O P 166 Philips Comment Status X	PClass_PD-2P, erence "at or be PPort_PD-2P r o, change PPort ssing the "_PD" <i>L</i> 43	, and the parameter slow". max in the text with -2P on line 35 to # <u>388</u>
signature PDs". SuggestedRemedy Change to: "For Class 6 and Class 8 single-s additional information is available between the PSE PI and the PD P PI, the peak power shall not excee PPort_PD-2P max for dual-signatu Proposed Response Response Cl 33 SC 33.3.8.4.1 Timmerman, George Comment Type E Comme	signature PDs and f to the PD regarding PI, in any operating ed PPort_PD max f ure PDs" se Status O P 165 CME Consultin ent Status X	for Class 5 dual g actual channe condition with a or single-signat	I-signature PDs, when el DC resistance any static voltage at the ture PDs and	instances of PPort_PD-2P PPort_PD-2P eliminated, t SuggestedRemedy Delete PPort_PD-2P from PClass_PD-2P on line 37, PClass_PD-2P, as PPort-2 Proposed Response Cl 33 SC 33.3.8.6 Yseboodt, Lennart Comment Type TR	can just be replaced by F because they seem to refe Table 33-30, and replace and page 163 line 2, also 2P seems to be a typo mi Response Status O P 166 Philips Comment Status X red in the above list shall of	PClass_PD-2P, erence "at or be PPort_PD-2P r b, change PPort ssing the "_PD" <i>L</i> 43	, and the parameter slow". max in the text with -2P on line 35 to # <u>388</u>
signature PDs". SuggestedRemedy Change to: "For Class 6 and Class 8 single-s additional information is available between the PSE PI and the PD P PI, the peak power shall not excee PPort_PD-2P max for dual-signatu Proposed Response Response Cl 33 SC 33.3.8.4.1 Cimmerman, George Comment Type E Comme PPort-2P should be PPort_PD-2P	signature PDs and f to the PD regarding PI, in any operating ed PPort_PD max f ure PDs" se Status O P 165 CME Consultin ent Status X	for Class 5 dual g actual channe condition with a or single-signat	I-signature PDs, when el DC resistance any static voltage at the ture PDs and	instances of PPort_PD-2P PPort_PD-2P eliminated, to SuggestedRemedy Delete PPort_PD-2P from PClass_PD-2P on line 37, PClass_PD-2P, as PPort-2 Proposed Response Cl 33 SC 33.3.8.6 Yseboodt, Lennart Comment Type TR "A PD which is not describ	can just be replaced by F because they seem to refe Table 33-30, and replace and page 163 line 2, also 2P seems to be a typo mi Response Status O P166 Philips Comment Status X red in the above list shall oction."	PClass_PD-2P, erence "at or be PPort_PD-2P r b, change PPort ssing the "_PD" <i>L</i> 43 comply with the	, and the parameter slow". max in the text with -2P on line 35 to # <u>388</u> requirements set forth
signature PDs". SuggestedRemedy Change to: "For Class 6 and Class 8 single-s additional information is available between the PSE PI and the PD P PI, the peak power shall not excee PPort_PD-2P max for dual-signatu Proposed Response Response Cl 33 SC 33.3.8.4.1 Cimmerman, George Comment Type E Comme PPort-2P should be PPort_PD-2P	signature PDs and f to the PD regarding PI, in any operating ed PPort_PD max f ure PDs" se Status 0 P 165 CME Consultin ent Status X P.	for Class 5 dual g actual channe condition with a or single-signat	I-signature PDs, when el DC resistance any static voltage at the ture PDs and # 453	instances of PPort_PD-2P PPort_PD-2P eliminated, to SuggestedRemedy Delete PPort_PD-2P from PClass_PD-2P on line 37, PClass_PD-2P, as PPort-2 Proposed Response Cl 33 SC 33.3.8.6 Yseboodt, Lennart Comment Type TR "A PD which is not describ in the remainder of this set PDs described in the list m	can just be replaced by F because they seem to refe Table 33-30, and replace and page 163 line 2, also 2P seems to be a typo mi Response Status O P166 Philips Comment Status X red in the above list shall oction."	PClass_PD-2P, erence "at or be PPort_PD-2P r b, change PPort ssing the "_PD" <i>L</i> 43 comply with the	, and the parameter slow". max in the text with -2P on line 35 to # <u>388</u> requirements set forth
signature PDs". SuggestedRemedy Change to: "For Class 6 and Class 8 single-s additional information is available between the PSE PI and the PD P PI, the peak power shall not excee PPort_PD-2P max for dual-signatu Proposed Response Response Cl 33 SC 33.3.8.4.1 Zimmerman, George Comment Type E Comme PPort-2P should be PPort_PD-2P SuggestedRemedy Change PPort-2P to PPort_PD-2F	signature PDs and f to the PD regarding PI, in any operating ed PPort_PD max f ure PDs" se Status 0 P 165 CME Consultin ent Status X P.	for Class 5 dual g actual channe condition with a or single-signat	I-signature PDs, when el DC resistance any static voltage at the ture PDs and # 453	instances of PPort_PD-2P PPort_PD-2P eliminated, to SuggestedRemedy Delete PPort_PD-2P from PClass_PD-2P on line 37, PClass_PD-2P, as PPort-2 Proposed Response Cl 33 SC 33.3.8.6 Yseboodt, Lennart Comment Type TR "A PD which is not describ in the remainder of this set PDs described in the list m the shalls still apply.	can just be replaced by F because they seem to refe and page 163 line 2, also 2P seems to be a typo mi Response Status O P 166 Philips Comment Status X red in the above list shall oction."	PClass_PD-2P, erence "at or be PPort_PD-2P in b, change PPort ssing the "_PD" <i>L</i> 43 comply with the without further of	, and the parameter slow". max in the text with -2P on line 35 to # <u>388</u> requirements set forth consideration. Howeve

TYPE: TR/technical required ER/editorial required GR/gene	ral required T/technical E/editorial G/general	Pa 166	Page 68 of 101
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	Li 43	12/19/2016 11:30:15 A
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Yseboodt, Lennart	5 P 166 Philips	L 46	# 389	C/ 33 SC 3 Jones, Chad	3.3.8.6	<i>P</i> 167 Cisco	L 14	# 142
Comment Type ER "Table 33-31 defines conditions apply."	Comment Status X three PSE transient test condi	tions and PD Ty	pes to which the	Comment Type orphaned text SuggestedRemedy	has a Table 3	omment Status X 3-31 splitting a sentenc	e across pages.	
We should not be def	fining tests, rather define PI be	haviour under co	ertain conditions.	format the text	so that it stay	s with the previous text		
SuggestedRemedy				Proposed Respons	se Re	sponse Status O		
Reworded: "Table 33-31 defines	three PSE transient conditions	and PD Types	to which these apply."					
Merge this paragraph	with the next paragraph.			C/ 33 SC 3 Yseboodt, Lennart	3.3.8.6	P 167 Philips	L 33	# 392
Proposed Response	Response Status 0			Comment Type		omment Status X		
				51		nt test condition operati	ng bounds wher	e"
C/ 33 SC 33.3.8.6 (seboodt, Lennart	6 P 166 Philips	L 48	# 390	Avoid the word				
Comment Type ER	Comment Status X			SuggestedRemedy		nt condition operating b		
	operating bounds for the trans			Proposed Respons		sponse Status O		
figure."	e application of the transient te	st and end at the	e times indicated in the	Floposed Respons				
		st and end at the	e times indicated in the	· ·	3.3.8.6	P 167	L 42	# 393
figure." Let`s avoid the word '		st and end at the	e times indicated in the	· ·	3.3.8.6		L 42	# 393
figure." Let`s avoid the word ' SuggestedRemedy "Figure 33-36 shows shaded regions begin		ients defined in ⁻	Table 33-31. The	CI 33 SC 3 Yseboodt, Lennart Comment Type "shows the ope	3.3.8.6 E C erating bound	P 167		
figure." Let's avoid the word ' <i>SuggestedRemedy</i> "Figure 33-36 shows shaded regions begin the figure."	"test". operating bounds for the trans	ients defined in ⁻	Table 33-31. The	CI 33 SC 3 Yseboodt, Lennart Comment Type "shows the ope test condition."	E C erating bound	P 167 Philips omment Status X		
figure." Let's avoid the word ' SuggestedRemedy "Figure 33-36 shows shaded regions begin the figure."	"test". operating bounds for the trans with the application of the tran	ients defined in ⁻	Table 33-31. The	Cl 33 SC 3 Yseboodt, Lennart Comment Type "shows the ope test condition." Avoid the word	E C erating bound	P 167 Philips omment Status X		
figure." Let's avoid the word ' SuggestedRemedy "Figure 33-36 shows shaded regions begin the figure." Proposed Response	"test". operating bounds for the trans with the application of the tran <i>Response Status</i> 0	ients defined in ⁻	Table 33-31. The	Cl 33 SC 3 Yseboodt, Lennart Comment Type "shows the ope test condition." Avoid the word SuggestedRemedy	E C erating bound test.	P 167 Philips omment Status X	ondition, where r	n is the number of the
figure." Let's avoid the word ' SuggestedRemedy "Figure 33-36 shows shaded regions begin the figure." Proposed Response C/ 33 SC 33.3.8.6 (seboodt, Lennart Comment Type E	"test". operating bounds for the trans n with the application of the tran <i>Response Status</i> O	ients defined in insient and end a	Table 33-31. The It the time indicated in	Cl 33 SC 3 Yseboodt, Lennart Comment Type "shows the ope test condition." Avoid the word SuggestedRemedy "shows the ope	E C erating bound test. erating bound tition."	P 167 Philips omment Status X s of the transient test co	ondition, where r	n is the number of the
figure." Let's avoid the word ' SuggestedRemedy "Figure 33-36 shows shaded regions begin the figure." Proposed Response C/ 33 SC 33.3.8.6 Yseboodt, Lennart Comment Type E Table 33-31, second SuggestedRemedy Fix.	"test". operating bounds for the trans n with the application of the tran <i>Response Status</i> O 5 <i>P</i> 167 Philips <i>Comment Status</i> X row, RCh needs subscripting. consistency in the last row.	ients defined in insient and end a	Table 33-31. The It the time indicated in	Cl 33 SC 3 Yseboodt, Lennart Comment Type "shows the ope test condition." Avoid the word SuggestedRemedy "shows the ope transient condi	E C erating bound test. erating bound tition."	P 167 Philips omment Status X s of the transient test co	ondition, where r	n is the number of 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

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Cl 33 SC 33.3.8.6 Darshan, Yair	P 167 Mirosemi	L 45	# 96	Cl 33 SC 33.3.9 Schindler, Fred	P 171 Seen Simply	<i>L</i> 9 /, Cisco, T	# 259
Comment Type TR This comment is relate		to obongo the fe	lowing toxt on well-	5 5	Comment Status X	ecause incomple	te information is
"TLIM-2P min is the m	vill be accepted then we need inimum TLIM-2P min value fo e depend on the assigned clas	r the PD Class,		provided. "Total input current p	per the assigned Class to a sin	igle-signature PD	27
SuggestedRemedy Change text to: "TLIM- 33–18"	2P min is the minimum TLIM-	2P min value as	defined in Table	combined to give a t	nes the reader is aware that ea otal quantity being defined.	ach pairset provic	les current that is
Proposed Response	Response Status 0			SuggestedRemedy Replace the called c "The combined pairs	but sentence with, set input current per the assign	ed Class to a sin	gle-signature PD"
C/ 33 SC 33.3.8.6 Yseboodt, Lennart	P 167 Philips	L 49	# 394	Proposed Response	Response Status 0		
	Comment Status X s applied, a Type 1 PD shall n after T LIM-2P min as defined => what is normal ?			Cl 33 SC 33.3.9 Yseboodt, Lennart Comment Type E The note below Tab SuggestedRemedy	P 171 Philips <i>Comment Status</i> X le 33-33 is not aligned with the	L 29 Table boundary.	# 395
Replace "shall meet its p167, I49 p168, I3 p168, I6	s normal" by "shall meet the" a	at		Set note cell margin Proposed Response	to zero. Response Status O		
Proposed Response	Response Status O			C/ 00 SC 0 Zimmerman, George	<i>P</i> 180 CME Consu	L 3 Iting, Aqua	# 454
Cl 33 SC 33.3.8.6 Darshan, Yair	P 168 Mirosemi	L 14	# 97	Comment Type ER ANSI/TIA-568.0-D is	Comment Status X	mative references	s of IEEE 802.3-2015
Comment Type ER The title of the column	Comment Status X "PD signature" should be "PE	construction".		SuggestedRemedy Add it to the normati	ve references, section 1.3		
SuggestedRemedy Change from "PD sign	ature" to "PD construction".			Proposed Response	Response Status O		
Proposed Response	Response Status O						

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C/ 33 SC 33.3.5.3 Darshan, Yair	P 186 Mirosemi	L 15	# 98	<i>Cl</i> 33 <i>SC</i> 33.5.3. Yseboodt, Lennart	B P 187 Philips	L 40	# 398
Comment Type TR Missing text that was a	Comment Status X approved in darshan_11_1116	Option2Rev006	S.pdf.	Comment Type E "33.5.3.3 Single-sign	Comment Status X ature system Variables"		
behavior of a PSE and When single-signature	te diagrams for PSEs and PL PD Data Link Layer classific PDs are supported, PSE Da	ation respective ta Link Layer cla	ly. assification shall provide	SuggestedRemedy Do not capitalize Vari Proposed Response	ables. Response Status O		
	te diagram as shown in Figur er classification shall provide t 9.			C/ 33 SC 33.5.3.3 Yseboodt, Lennart	B P 188 Philips	L 5	# 399
the behavior of the sta classification shall prov	PDs are supported, PSE Data te diagram as shown in Figur vide the liagram as shown in Figure 33	e 33–50. PD Da		Comment Type E "The copy of the PD SuggestedRemedy	Comment Status X Requested Power Value filed i	in the"	
Proposed Response	Response Status O			Should be "field". Proposed Response	Response Status O		
C/ 33 SC 33.5.3.2 Yseboodt, Lennart	P 186 Philips	L 30	# 396				
Comment Type E Sectiontitle "33.5.3.2 S	Comment Status X Single-signature system Cons	tants"					
SuggestedRemedy Do not capitalize Cons	stants.						
Proposed Response	Response Status O						
C/ 33 SC 33.5.3.2. /seboodt, Lennart	2 P 187 Philips	L 27	# 397				
Comment Type T Variable "pd_allocated	Comment Status X	d be "pd_allocat	ed_pwr".				
SuggestedRemedy Change to "pd_allocate	ed_pwr".						
Proposed Response	Response Status O						

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				• ·				
<i>Cl</i> 33 <i>SC</i> 33.5. Jones, Chad	3.3 P 189 Cisco	L 4	# 143	C/ 33 Yseboodt	SC 33.5.3.3 , Lennart	P 190 Philips	L 1	# 400
Comment Type ER This is the solution	Comment Status X to the TO DO 93 from D2.1.			<i>Comment</i> Varia	51	Comment Status X ot in alphabetical order.		
MDI_POWER2 sta Class of the PD. W move to MDI_POW	140, line 41. This is the Type 1 te contains pd_max_power <= c 'ith DLL any PD can claim itself /ER2. However the statement po	class_sig. "class to be a Type 2 a d_max_power <	_sig" is the requested and that will cause it to = class_sig prevents		,	ies in alphabetical order. Response Status O		
power (compliant), than physical layer	more power than its physical lay a PSE can grant it (compliant), . SD covers the behavior but in swer is not to be subtle.	but the PD cann	not draw more power	C/ 33	SC 33.5.3.3	,	L 39	# 260
Page 153 line 46 s	states: "The Physical Layer class	sification of the I	PD is the maximum	Schindler	, Fred	Seen Simp	oly, Cisco, T	
power that a Type The Class requeste	1 or Type 2 PD draws across al ed by the PD during Physical La pe 4 PD shall draw." Makes the	Il input voltages iyer classificatio	and operational modes. n is the maximum power	"pd_d A cor	variable, III_single_or_dua Itrol variable out	out by PD power control sta		
	tates: "PDs that have successfu r consumption of PDMaxPower\ Value say?			state Value single	diagrams do not es: e: A single-signat	a single-signature PD or a c use this variable. ture PD configuration is cor PD configuration is conner	nnected to the PI.	Type 3 and Type 4 PD
power value of the PDMaxPowerValue	e is defined on page 189, line 1. local system in units of 0.1 W (s e is X). The actual PD power val e 33.3.8.2) the PD ever draws u	see Equation (79 lue for a PD is th	9–1)), where ne maximum input	make it. Th do no	s no sense as d is description als t use this variab	etailed. The variable is not so probably incorrectly state le. Only Type 3 and 4 PDs should be single unless this	provided by Figure es Type 3 and Type may be dual-signa	e 4 PD state diagrams ature PDs. I suspect
	reminding reader that 36 pages wer a PD may draw.	ago we told you	I that a the physical layer			s on page 198 line 44.		

SuggestedRemedy

on page 189, line 3 change sentence to: "The actual PD power value for a PD is the maximum input average power (see 33.3.8.2) the PD ever draws under the current power allocation and does not exceed the amount requested via the Physical Layer."

an alternate remedy is to add at page 154, line 22 in section 33.3.6: "The maximum power a PD draws after a DLL negotiation does not exceed the requested Class of the PD".

Proposed Response Response Status **0**

SuggestedRemedy

Assign a TDL to Yair to move this fix this.

Proposed Response Response Status 0

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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W 33 SC 33.5.3.3 P 19		# 401	C/ 33 SC 33.5.3.4	4 P 191	L 13	# 403
seboodt, Lennart Philips			Yseboodt, Lennart	Philips		
omment Type T Comment Status	x		Comment Type T	Comment Status X		
Under pd_dll_single_or_dual: "A control variable output by PD power contr indicates if the PD is a single-signature PD of state diagrams do not use this variable."				detect the timeout of a pendir ay be set to any value greater		
-	r control but on input o	andition on this		November, this leaves no ma ue needs to be higher.	argin compared to	o the LLDP response
This is not an output variable of the PD power variable.	r control, but an input c	condition on this	SuggestedRemedy	ue needs to be higher.		
ıggestedRemedy			Change 10 seconds	to 30 seconds.		
"A variable in the PD power control state dia cates if the PD is a single-signature PD or a state diagrams do not use this variable."			Proposed Response	Response Status 0		
Possible OBE by yseboodt_02_0117_lldpup	late.pdf		C/ 33 SC 33.3.5.3	3 <i>P</i> 191	L 20	# 99
roposed Response Response Status	0		Darshan, Yair	Mirosemi		
			Comment Type T	Comment Status X		
	0 <i>L</i> 47	# 402	local system changes	ion evaluates the power alloc s.", it is "the total power alloca y in darshan_11_1116Option:	ation or budget" fo	
eboodt, Lennart Philips		# 402	local system changes	s.", it is "the total power alloca	ation or budget" fo	
eboodt, Lennart Philips omment Type T Comment Status Under pse_dll_single_or_dual:	x	-	local system change: See approved remed SuggestedRemedy Change to: "This fur	s.", it is "the total power alloca y in darshan_11_1116Option: ction evaluates the total power	ation or budget" fo 2Rev006.pdf.	or single-signature PD
eboodt, Lennart Philips omment Type T Comment Status	X rol state diagram defin of the Type 3 and Type	ed in Figure 33-46 4 PSE state diagram in	local system change: See approved remed SuggestedRemedy	s.", it is "the total power alloca y in darshan_11_1116Option: ction evaluates the total power	ation or budget" fo 2Rev006.pdf.	or single-signature PD
Philips parameter Type T Comment Status Under pse_dll_single_or_dual: "A control variable output by PSE power con (generated from the do_cxn_check function Figure 33-15) which indicates if the PSE is c signature PD." This is not an output variable of the PSE power This is n	X rol state diagram defin of the Type 3 and Type onnected to a single-siç	ed in Figure 33-46 4 PSE state diagram in gnature PD or dual-	local system changes See approved remed SuggestedRemedy Change to: "This fur on local system chan Proposed Response	s.", it is "the total power alloca y in darshan_11_1116Option ction evaluates the total powe ges." <i>Response Status</i> O	ation or budget" fo 2Rev006.pdf. er allocation or bu	or single-signature PD udget of the PSE base
eboodt, Lennart Philips mment Type T Comment Status Under pse_dll_single_or_dual: "A control variable output by PSE power con (generated from the do_cxn_check function Figure 33-15) which indicates if the PSE is c signature PD." This is not an output variable of the PSE pow variable.	X rol state diagram defin of the Type 3 and Type onnected to a single-siç	ed in Figure 33-46 4 PSE state diagram in gnature PD or dual-	local system change: See approved remed <i>SuggestedRemedy</i> Change to: "This fur on local system char	s.", it is "the total power alloca y in darshan_11_1116Option ction evaluates the total powe ges." <i>Response Status</i> O	ation or budget" fo 2Rev006.pdf.	or single-signature PD
eboodt, Lennart Philips mment Type T Comment Status Under pse_dll_single_or_dual: "A control variable output by PSE power con (generated from the do_cxn_check function Figure 33-15) which indicates if the PSE is c signature PD." This is not an output variable of the PSE power variable. ggestedRemedy	X rol state diagram defin of the Type 3 and Type onnected to a single-sig rer control, but an input	ed in Figure 33-46 4 PSE state diagram in gnature PD or dual- c condition on this	local system changes See approved remed SuggestedRemedy Change to: "This fur on local system chan Proposed Response Cl 33 SC 33.3.5.5	s.", it is "the total power alloca y in darshan_11_1116Option ction evaluates the total powe ges." <i>Response Status</i> O B P 191	ation or budget" fo 2Rev006.pdf. er allocation or bu	or single-signature PE udget of the PSE base
eboodt, Lennart Philips mment Type T Comment Status Under pse_dll_single_or_dual: "A control variable output by PSE power con (generated from the do_cxn_check function Figure 33-15) which indicates if the PSE is c signature PD." This is not an output variable of the PSE pow variable.	X rol state diagram defin of the Type 3 and Type onnected to a single-sig rer control, but an input agram defined in Figure 3 and Type 4 PSE state	ed in Figure 33-46 4 PSE state diagram in gnature PD or dual- c condition on this e 33-46 (generated e diagram in Figure 33-	local system changes See approved remed SuggestedRemedy Change to: "This fur on local system chan Proposed Response CI 33 SC 33.3.5. Darshan, Yair Comment Type T In the text "The new "The new maximum f	s.", it is "the total power alloca y in darshan_11_1116Option ction evaluates the total powe ges." <i>Response Status</i> O B P 191 Mirosemi <i>Comment Status</i> X maximum power value that the otal power" for single-signat	ation or budget" fo 2Rev006.pdf. er allocation or bu <i>L</i> 23 e PSE expects th	or single-signature PD udget of the PSE base # 100 ne PD to draw.", it is
eboodt, Lennart Philips mment Type T Comment Status Under pse_dll_single_or_dual: "A control variable output by PSE power condigenerated from the do_cxn_check function Figure 33-15) which indicates if the PSE is consignature PD." This is not an output variable of the PSE power variable. ggestedRemedy "A variable in the PSE power control state difform the do_cxn_check function of the Type 15) which indicates if the PSE is connected to a	X rol state diagram defin of the Type 3 and Type onnected to a single-sig er control, but an input agram defined in Figure 3 and Type 4 PSE state single-signature PD or	ed in Figure 33-46 4 PSE state diagram in gnature PD or dual- c condition on this e 33-46 (generated e diagram in Figure 33-	local system changes See approved remed SuggestedRemedy Change to: "This fur on local system chan Proposed Response Cl 33 SC 33.3.5. Darshan, Yair Comment Type T In the text "The new r "The new maximum f darshan_11_11160p	s.", it is "the total power alloca y in darshan_11_1116Option ction evaluates the total powe ges." <i>Response Status</i> O B P 191 Mirosemi <i>Comment Status</i> X maximum power value that the otal power" for single-signat	ation or budget" fo 2Rev006.pdf. er allocation or bu <i>L</i> 23 e PSE expects th	or single-signature PE udget of the PSE base # <u>100</u> ne PD to draw.", it is
Beboodt, Lennart Philips omment Type T Comment Status Under pse_dll_single_or_dual: "A control variable output by PSE power con (generated from the do_cxn_check function Figure 33-15) which indicates if the PSE is c signature PD." This is not an output variable of the PSE power variable. uggestedRemedy "A variable in the PSE power control state di from the do_cxn_check function of the Type 15)	X rol state diagram defin of the Type 3 and Type onnected to a single-sig rer control, but an input agram defined in Figure 3 and Type 4 PSE state single-signature PD or late.pdf	ed in Figure 33-46 4 PSE state diagram in gnature PD or dual- c condition on this e 33-46 (generated e diagram in Figure 33-	local system changes See approved remed SuggestedRemedy Change to: "This fur on local system chan Proposed Response CI 33 SC 33.3.5.1 Darshan, Yair Comment Type T In the text "The new maximum f darshan_11_11160p SuggestedRemedy	s.", it is "the total power alloca y in darshan_11_1116Option ction evaluates the total powe ges." <i>Response Status</i> O B P 191 Mirosemi <i>Comment Status</i> X maximum power value that the otal power" for single-signat	ation or budget" fo 2Rev006.pdf. er allocation or bu <i>L</i> 23 e PSE expects th ure PD. See app	br single-signature PE udget of the PSE base # <u>100</u> ne PD to draw.", it is roved remedy in

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X 33 SC 33.5.3.5 P 192 L 20 # 404 seboodt, Lennart Philips	C/ 33 SC 33.5.3.6 P 194 L 3 # 261 Schindler, Fred Seen Simply, Cisco, T
Comment Type E Comment Status X Table 33-41 has inconsistent line width near the bottom. SuggestedRemedy Fix. Proposed Response Response Status O	Comment Type TR Comment Status X State diagrams on this page appear to originate from BEGIN, which is not standard. SuggestedRemedy Replace "BEGIN" on Figure 33-47 with, "pse_dll_ready". Proposed Response Response Status O
S/ 33 SC 33.5.3.6 P 193 L 1 # 405 iseboodt, Lennart Philips	C/ 33 SC 33.5.3.6 P 194 L 21 # 102 Darshan, Yair Mirosemi
Comment Type ER Comment Status X DLL power control state diagrams have state names with spaces in them. Potentially confusing in text and incompatible with automated checking. SuggestedRemedy For all states in Figure 33-46, Figure 33-49, Figure 33-50, and Figure 33-51 replace space with underscore in state names and propagate change in the text. Proposed Response Response Status O	Comment Type T Comment Status X AUTOCLASS state appears twice. Group to consider the proposed remedy. SuggestedRemedy 1. Delete the last AUTOCLASS state. 2. Change the exit from the 1st AUTOCLASS state from "do_autoclass_measurement_done" to "do_autoclass_measurement_done" to "do_autoclass_measurement_done*!MirroredPDAutoclassRequest" and connect it to IDLE state. Proposed Response Response Status O
C/ 33 SC 33.5.3.6 P 194 L 1 # 263 Acchindler, Fred Seen Simply, Cisco, T E Comment Type ER Comment Status X Make it easier for specification readers to follow the material by placing PSE and PD power control state diagrams adjacent to one another and not separated by other state diagrams. SuggestedRemedy Make Figure 33-46 and Figure 33-49 state diagrams appear on adjacent pages. E	Cl 33 SC 33.5.3.6 P 194 L 30 # 262 Schindler, Fred Seen Simply, Cisco, T Comment Type TR Comment Status X State diagrams on this page appear to originate from BEGIN, which is not standard. The title is not correct for the second diagram. SuggestedRemedy

Pa **194** Li **30**

C/ 00 SC 33.5.3.6 Yseboodt, Lennart	P 194 Philips	L 51	# 300	Cl 33 SC 33.5.3 Schindler, Fred	.8 P 196 Seen Simply	L 32 Cisco, T	# 264
·	Comment Status X				Comment Status X	, 01300, 1	
Comment Type E	PSE Autoclass control state c	diagram"		Comment Type ER	easier to read for software deve	aloners that do no	ot read most bardware
SuggestedRemedy		Jiagram		details.			
PSE should be PD.				SuggestedRemedy			
Proposed Response	Response Status O				ı text, ntrol state diagram (Figure 33⊸ the following variables:" with,	46) and PD powe	er control state diagram
C/ 33 SC 33.5.3.6 Stover, David	P 194 Linear Techno	L 51	# 283		ntrol state diagram (Figure 33– _mode(M), which is defined in 3		
Comment Type ER	Comment Status X	blogy		Proposed Response	Response Status 0		
Figures 33-48 and 33- Figure 33-48 appears	47 are captioned "PSE Autoc to be the PD Autoclass control			C/ 33 SC 33.5.3	.8 P 199	L 1	# 265
SuggestedRemedy				Schindler, Fred	Seen Simply	, Cisco, T	
, , ,	ure 33-48: "PD Autoclass cont	trol state diagra	m"	Comment Type TR	Comment Status X		
Proposed Response Cl 33 SC 33.5.3.6	Response Status 0	L 51	# 101		dual utput by PSE power control stat do cxn check function of the ⁻		
Darshan, Yair	Mirosemi	-01		Figure 33–15) which	indicates if the PSE is connect		
Comment Type E	Comment Status X			signature PD. Values:			
21	33–48—PSE Autoclass contro	ol state diagram	" should be PD.	invalid: Neither a sir	ngle-signature PD nor a dual-sig		ection check signature
SuggestedRemedy					s includes an open circuit cond ature PD configuration is conne		
Change to: "Figure 33-	-48-PD Autoclass control st	tate diagram"			re PD configuration is connected		
Proposed Response	Response Status O			Figure 33-15 or in d	lefined in Figure 33-46, it is use o_cxn_check. This problem als provided for the same variable	so exists on page	e 190 line 47 but a
				SuggestedRemedy			
					r to move this fix this. The defi t should be done in do_cxn_che		rewritten and the
				required assignment		ECK.	

Pa **199** Li **1**

Cl 33 SC 33.5.3.9 Schindler, Fred	P 199 Seen Simply,	<i>L</i> 29 Cisco. T	# 266	C/ 33 SC 33.5.3.9 P 200 L 6 # 104 Darshan, Yair Mirosemi
	Comment Status X		lowing.	Comment Type TR Comment Status X Missing _mode(M) in MirroredPDRequestedPowerValueEcho
uggestedRemedy Have the editor rework his	magic to fix Table 33-42's	s header.		SuggestedRemedy Change to: MirroredPDRequestedPowerValueEcho_mode(M)
	esponse Status O			Proposed Response Response Status O
C/ 33 SC 33.5.3.9 /seboodt, Lennart	P 199 Philips	L 30	# 406	C/ 33 SC 33.5.3.10 P 201 L 5 # 408 Yseboodt, Lennart Philips
Comment Type E C Table 33-42 has the top rov	Comment Status X v split very akward "En	tit-y"		Comment Type T Comment Status X "pse_dll_singe_or_dual = single" condition is wrong, should be dual
SuggestedRemedy Fix.				SuggestedRemedy Change to "pse_dll_singe_or_dual = dual"
Proposed Response Re	esponse Status O			Possible OBE by yseboodt_02_0117_lldpupdate.pdf Proposed Response Response Status O
7 33 SC 33.5.3.9 seboodt, Lennart	P 199 Philips	L 48	# 407	C/ 33 SC 33.5.3.10 P 201 L 5 # 267
omment Type E C Table 33-42 is missing bott	Comment Status X			Schindler, Fred Seen Simply, Cisco, T
uggestedRemedy Add bottom line.				Comment Type TR Comment Status X The dual-signature state diagram is entered only when the variable pd_dll_single_or_dua is single, which is incorrect.
Proposed Response Re	esponse Status O			SuggestedRemedy Assign a TDL to Yair to move this fix this.
2/ 33 SC 33.5.3.9 Parshan, Yair	<i>P</i> 200 Mirosemi	L 5	# 103	Proposed Response Response Status O
Comment Type TR C Missing _mode(M) in Mirror	Comment Status X redPSEAllocatedPowerV	alue		
SuggestedRemedy Change to: "MirroredPSEA	llocatedPowerValue_mod	de(M)		
Proposed Response Re	esponse Status O			

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 **201** Li **5** Page 76 of 101 12/19/2016 11:30:15 A

		L 5	# 200		P 202		# 409
C/ 33 SC 33.5.3.		-•	# 268	C/ 33 SC 33.5.3.10		L 4	# 409
Schindler, Fred	Seen Simply,	CISCO, I		Yseboodt, Lennart	Philips		
Comment Type TR	Comment Status X			Comment Type T	Comment Status X		
The INITIALIZE state "pd dll power type	0 1			"pse_dll_singe_or_dual	= single" condition is wrong	, should be dua	l
SuggestedRemedy	parameter_type .			SuggestedRemedy			
	Note: This comment relates to 1	1 #118	#122 #110 and #25	Change to "pse_dll_sing	ge_or_dual = dual"		
Assign a TDL to Yair		DE D2.1 #110,	#122, #140 and #23.	Possible OBE by ysebo	odt_02_0117_lldpupdate.pd	lf	
Proposed Response	Response Status 0			Proposed Response	Response Status 0		
CI 33 SC 33.5.3.	10 P 201	L 5	# 105	C/ 33 SC 33.5.3.10	P 202	L 5	# 269
Darshan, Yair	Mirosemi			Schindler, Fred	Seen Simply,	Cisco, T	
Comment Type TR	Comment Status X			Comment Type TR	Comment Status X		
	n (!pse_dll_enabled + !pse_dll_r			The INITIALIZE state n	o longer requires		
	n (!pse_dll_enabled + !pse_dll_r dual = single). It should be pse_d		ual = dual	The INITIALIZE state n "pse_dll_power_type pa			
(pse_dll_single_or_d SuggestedRemedy	dual = single). It should be pse_d		ual = dual	"pse_dll_power_type pa SuggestedRemedy	arameter_type".		
(pse_dll_single_or_d SuggestedRemedy	dual = single). It should be pse_d		ual = dual	"pse_dll_power_type pa SuggestedRemedy	arameter_type". te: This comment relates to	TDL D2.1 #118,	#122, #140 and #25.
(pse_dll_single_or_d SuggestedRemedy Change to: " (!pse_d (pse_dll_single_or_d	dual = single). It should be pse_d		ial = dual	"pse_dll_power_type pa SuggestedRemedy See the solution for Not	arameter_type". te: This comment relates to	TDL D2.1 #118,	#122, #140 and #25.
(pse_dll_single_or_d SuggestedRemedy Change to: " (!pse_d (pse_dll_single_or_d Proposed Response	dual = single). It should be pse_d dll_enabled + !pse_dll_ready) * dual = dual)" <i>Response Status</i> O		ual = dual # 106	"pse_dll_power_type pa SuggestedRemedy See the solution for Not Assign a TDL to Yair to	arameter_type". te: This comment relates to move this fix this.	TDL D2.1 #118, 	#122, #140 and #25. # 410
(pse_dll_single_or_d SuggestedRemedy Change to: " (!pse_d (pse_dll_single_or_d Proposed Response	dual = single). It should be pse_d dll_enabled + !pse_dll_ready) * dual = dual)" <i>Response Status</i> O	dll_single_or_du		"pse_dll_power_type pa SuggestedRemedy See the solution for Not Assign a TDL to Yair to Proposed Response	arameter_type". te: This comment relates to move this fix this. <i>Response Status</i> O		
(pse_dll_single_or_d SuggestedRemedy Change to: " (!pse_d (pse_dll_single_or_d Proposed Response	dual = single). It should be pse_d dual = dual)" <i>Response Status</i> O 10 <i>P</i> 202	dll_single_or_du		"pse_dll_power_type pa SuggestedRemedy See the solution for Not Assign a TDL to Yair to Proposed Response Cl 33 SC 33.5.5	arameter_type". te: This comment relates to move this fix this. <i>Response Status</i> O <i>P</i> 204		
(pse_dll_single_or_d SuggestedRemedy Change to: " (!pse_d (pse_dll_single_or_d Proposed Response C/ 33 SC 33.5.3. Darshan, Yair Comment Type TR Error in the condition	dual = single). It should be pse_d dll_enabled + !pse_dll_ready) * dual = dual)" <i>Response Status</i> O 10 <i>P</i> 202 Mirosemi <i>Comment Status</i> X n (!pd_dll_enabled + !pd_dll_rea	dll_single_or_du	# 106	"pse_dll_power_type pa SuggestedRemedy See the solution for Not Assign a TDL to Yair to Proposed Response CI 33 SC 33.5.5 Yseboodt, Lennart Comment Type E "When the PD sends th	arameter_type". te: This comment relates to move this fix this. <i>Response Status</i> O <i>P</i> 204 <i>Philips</i> <i>Comment Status</i> X is request, it needs to be in	L 4 a state where it	# 410
(pse_dll_single_or_d SuggestedRemedy Change to: " (!pse_d (pse_dll_single_or_d Proposed Response Cl 33 SC 33.5.3. Darshan, Yair Comment Type TR Error in the condition (pd_dll_single_or_du	dual = single). It should be pse_d dual = dual)" <i>Response Status</i> O 10 <i>P</i> 202 Mirosemi <i>Comment Status</i> X	dll_single_or_du	# 106	"pse_dll_power_type pa SuggestedRemedy See the solution for Not Assign a TDL to Yair to Proposed Response CI 33 SC 33.5.5 Yseboodt, Lennart Comment Type E "When the PD sends th	arameter_type". te: This comment relates to move this fix this. <i>Response Status</i> O <i>P</i> 204 Philips <i>Comment Status</i> X	L 4 a state where it	# 410
(pse_dll_single_or_d SuggestedRemedy Change to: " (!pse_d (pse_dll_single_or_d Proposed Response Cl 33 SC 33.5.3. Darshan, Yair Comment Type TR Error in the condition (pd_dll_single_or_du SuggestedRemedy	dual = single). It should be pse_d dll_enabled + !pse_dll_ready) * dual = dual)" <i>Response Status</i> O 10 <i>P</i> 202 Mirosemi <i>Comment Status</i> X n (!pd_dll_enabled + !pd_dll_rea ual = single). It should be pd_dll_	dll_single_or_du	# 106	"pse_dll_power_type pa SuggestedRemedy See the solution for Not Assign a TDL to Yair to Proposed Response CI 33 SC 33.5.5 Yseboodt, Lennart Comment Type E "When the PD sends th	arameter_type". te: This comment relates to move this fix this. <i>Response Status</i> O <i>P</i> 204 <i>Philips</i> <i>Comment Status</i> X is request, it needs to be in	L 4 a state where it	# 410
(pse_dll_single_or_d SuggestedRemedy Change to: " (!pse_d (pse_dll_single_or_d Proposed Response Cl 33 SC 33.5.3. Darshan, Yair Comment Type TR Error in the condition (pd_dll_single_or_du SuggestedRemedy	dual = single). It should be pse_d dll_enabled + !pse_dll_ready) * dual = dual)" <i>Response Status</i> O 10 <i>P</i> 202 Mirosemi <i>Comment Status</i> X h (!pd_dll_enabled + !pd_dll_rea ual = single). It should be pd_dll_ _enabled + !pd_dll_ready) *	dll_single_or_du	# 106	<pre>"pse_dll_power_type pa SuggestedRemedy See the solution for Not Assign a TDL to Yair to Proposed Response</pre> Cl 33 SC 33.5.5 Yseboodt, Lennart Comment Type E "When the PD sends th of power that will from t	arameter_type". te: This comment relates to move this fix this. <i>Response Status</i> O <i>P</i> 204 <i>Philips</i> <i>Comment Status</i> X is request, it needs to be in	L 4 a state where it	# 410
(pse_dll_single_or_d SuggestedRemedy Change to: " (!pse_d (pse_dll_single_or_d Proposed Response Cl 33 SC 33.5.3. Darshan, Yair Comment Type TR Error in the condition (pd_dll_single_or_du SuggestedRemedy Change to: "(!pd_dll_	dual = single). It should be pse_d dll_enabled + !pse_dll_ready) * dual = dual)" <i>Response Status</i> O 10 <i>P</i> 202 Mirosemi <i>Comment Status</i> X h (!pd_dll_enabled + !pd_dll_rea ual = single). It should be pd_dll_ _enabled + !pd_dll_ready) *	dll_single_or_du	# 106	"pse_dll_power_type parageted Remedy See the solution for Not Assign a TDL to Yair to Proposed Response CI 33 SC 33.5.5 Yseboodt, Lennart Comment Type E "When the PD sends the of power that will from the Better phrasing. Suggested Remedy "When the PD sends the of power that will from the PD sends the of power that will from the PD sends the of power that will from the PD sends the of power that power that will from the PD sends the of power that power that power that will from the PD sends the power that power that power that power that the PD sends the power that power that power that power that power that the PD sends the power that powe	arameter_type". te: This comment relates to move this fix this. <i>Response Status</i> O <i>P</i> 204 <i>Philips</i> <i>Comment Status</i> X is request, it needs to be in	L 4 a state where it naximum consur	# 410 consumes the amour nption." consumes the amour

P 1:

Pa **204** Li **4**

C/ 33 SC 33.5	.5 P 204	L 6	# 411	CI 33 SC 33.6.3	P 205	L 49	# 414
Yseboodt, Lennart	Philips			Yseboodt, Lennart	Philips		
Comment Type TR	Comment Status X			Comment Type E	Comment Status X		
	eceives the request for Autoclass he requirements in 33.2.7.3."	, it shall measure	e the power	local codes and regu	are cautioned to be aware of th Ilations, e.g., ANSI/NFPA 70 - num class supported."		
Autoclass is option	nal, this is not reflected in this sh	all.		SuggestedRemedy			
SuggestedRemedy				,	is specific to the NEC. It isn`t	actually a word f	ound in most
	eceives the request for Autoclass er consumption per the requireme			dictionaries.		·	
Proposed Response	Response Status O			Replace "ampacity"	by "current rating".		
				Proposed Response	Response Status 0		
CI 33 SC 33.5	.4.4 P 204	L 25	# 412				
Yseboodt, Lennart	Philips			Cl 33 SC 33.6.8	P 206	L 45	# 415
Comment Type ER	Comment Status X			Yseboodt, Lennart	Philips		
	e change procedure across a link	(single-signature	€)"	Comment Type E	Comment Status X	1 <i></i>	
"33.5.4.4 PD state		(single-signature	ə)"	71	Comment Status X ecommendation, we should up	date item "e)"	
"33.5.4.4 PD state	e change procedure across a link	(single-signature	9)"	71	ecommendation, we should up	date item "e)"	
"33.5.4.4 PD state SuggestedRemedy Should be "(dual-s	e change procedure across a link	(single-signature	ə)"	Under the labeling re	ecommendation, we should up	date item "e)"	
"33.5.4.4 PD state SuggestedRemedy	e change procedure across a link	(single-signature	∍)"	Under the labeling re "Type (e.g., "Type 1" SuggestedRemedy	ecommendation, we should up	,	
"33.5.4.4 PD state SuggestedRemedy Should be "(dual-s Proposed Response	e change procedure across a link signature)". <i>Response Status</i> O		,	Under the labeling re "Type (e.g., "Type 1" SuggestedRemedy	commendation, we should up or "Type 2")"	,	
"33.5.4.4 PD state SuggestedRemedy Should be "(dual-s Proposed Response 	e change procedure across a link signature)". <i>Response Status</i> O	(single-signature	e)" # [<u>413</u>	Under the labeling re "Type (e.g., "Type 1' <i>SuggestedRemedy</i> Change to: "Type (e	commendation, we should up or "Type 2")" g., "Type 1", "Type 2", "Type 3	,	
"33.5.4.4 PD state SuggestedRemedy Should be "(dual-s Proposed Response 	e change procedure across a link signature)". <i>Response Status</i> O .5 <i>P</i> 204		,	Under the labeling re "Type (e.g., "Type 1" SuggestedRemedy Change to: "Type (e Proposed Response	commendation, we should up or "Type 2")" g., "Type 1", "Type 2", "Type 3	,	# 416
"33.5.4.4 PD state SuggestedRemedy Should be "(dual-s Proposed Response Cl 33 SC 33.5 Yseboodt, Lennart Comment Type E	e change procedure across a link signature)". <i>Response Status</i> O .5 <i>P</i> 204 Philips	L 48	# [413	Under the labeling re "Type (e.g., "Type 1" <i>SuggestedRemedy</i> Change to: "Type (e <i>Proposed Response</i>	commendation, we should up or "Type 2")" g., "Type 1", "Type 2", "Type 3 <i>Response Status</i> O	", "Type 4")".	# <u>416</u>
"33.5.4.4 PD state SuggestedRemedy Should be "(dual-s Proposed Response Cl 33 SC 33.5 Yseboodt, Lennart Comment Type E	e change procedure across a link signature)". <i>Response Status</i> O .5 <i>P</i> 204 Philips <i>Comment Status</i> X ate it supports an Autoclass reque	L 48	# [413	Under the labeling re "Type (e.g., "Type 1" SuggestedRemedy Change to: "Type (e Proposed Response CI 33 SC 33.6.8 Yseboodt, Lennart Comment Type ER	ecommendation, we should up or "Type 2")" g., "Type 1", "Type 2", "Type 3 <i>Response Status</i> O <i>P</i> 206 Philips <i>Comment Status</i> X	", "Type 4")". <i>L</i> 46	L <u></u>
"33.5.4.4 PD state SuggestedRemedy Should be "(dual-se Proposed Response Cl 33 SC 33.5 Yseboodt, Lennart Comment Type E "A PSE can indica Better phrasing ne	e change procedure across a link signature)". <i>Response Status</i> O .5 <i>P</i> 204 Philips <i>Comment Status</i> X ate it supports an Autoclass reque	L 48	# [413	Under the labeling re "Type (e.g., "Type 1" SuggestedRemedy Change to: "Type (e Proposed Response CI 33 SC 33.6.8 Yseboodt, Lennart Comment Type ER	commendation, we should up or "Type 2")" g., "Type 1", "Type 2", "Type 3 <i>Response Status</i> 0 <i>P</i> 206 Philips	", "Type 4")". <i>L</i> 46	
"33.5.4.4 PD state SuggestedRemedy Should be "(dual-s Proposed Response Cl 33 SC 33.5 Yseboodt, Lennart Comment Type E "A PSE can indica Better phrasing ne SuggestedRemedy	e change procedure across a link signature)". <i>Response Status</i> O .5 <i>P</i> 204 Philips <i>Comment Status</i> X ate it supports an Autoclass reque	L 48 est by means of	# [413	Under the labeling re "Type (e.g., "Type 1" SuggestedRemedy Change to: "Type (e Proposed Response CI 33 SC 33.6.8 Yseboodt, Lennart Comment Type ER	ecommendation, we should up or "Type 2")" g., "Type 1", "Type 2", "Type 3 <i>Response Status</i> O <i>P</i> 206 Philips <i>Comment Status</i> X	", "Type 4")". <i>L</i> 46	L <u></u>
"33.5.4.4 PD state SuggestedRemedy Should be "(dual-s Proposed Response Cl 33 SC 33.5 Yseboodt, Lennart Comment Type E "A PSE can indica Better phrasing ne SuggestedRemedy	e change procedure across a link signature)". <i>Response Status</i> O .5 <i>P</i> 204 Philips <i>Comment Status</i> X ate it supports an Autoclass reque	L 48 est by means of	# [413	Under the labeling re "Type (e.g., "Type 1" SuggestedRemedy Change to: "Type (e Proposed Response Cl 33 SC 33.6.8 Yseboodt, Lennart Comment Type ER We should add indic SuggestedRemedy Add new item under	ecommendation, we should up or "Type 2")" g., "Type 1", "Type 2", "Type 3 <i>Response Status</i> O <i>P</i> 206 Philips <i>Comment Status</i> X	", "Type 4")". <i>L</i> 46 I signature to the	labelling.

Pa **206** Li **46**

C/ 33 SC 33.7.3.1 Chabot, Craig	<i>P</i> 210 UNH-IOL	L 15	# 41	<i>Cl</i> 33 <i>SC</i> 33.7.3.2 Chabot, Craig	<i>P</i> 212 UNH-IOL	L 19	# 44
Comment Type E Comr "twisted pair" should read "twist	<i>ment Status</i> X ed-pair"			Comment Type E The subclause noted i	Comment Status X s incorrect.		
SuggestedRemedy Replace "twisted pair" with "twis	sted-pair"			SuggestedRemedy Replace "33.2.6" with	"33.2.6.2"		
Proposed Response Respo	nse Status O			Proposed Response	Response Status O		
C/ 33 SC 33.7.3.2 Chabot, Craig	<i>P</i> 210 UNH-IOL	L 36	# 42	C/ 33 SC 33.7.3.2 Chabot, Craig	<i>P</i> 213 UNH-IOL	L 6	# 45
Comment Type E Comm This shall only applies to PSET	<i>nent Status</i> X 3H			Comment Type E The shall associated w	Comment Status X vith this PIC entry has bee	en removed.	
SuggestedRemedy In Status, replace "PSET3:M" w	ith "PSET3H:M"			SuggestedRemedy Delete PSE38			
Proposed Response Respo	nse Status O			Proposed Response	Response Status O		
C/ 33 SC 33.7.3.2 Chabot, Craig	<i>P</i> 212 UNH-IOL	L 3	# 43	C/ 33 SC 33.7.3.2 Chabot, Craig	P 214 UNH-IOL	L 31	# 46
Comment Type E Comm The text associated with this sh	<i>ment Status</i> X all has changed.			<i>Comment Type</i> E The subclause noted is	Comment Status X s incorrect.		
SuggestedRemedy Remove text in Value/Commen connected to a single-signature both pairsets are invalid"				SuggestedRemedy Replace "33.2.7.1" with Proposed Response	h "33.2.7.2" Response Status 0		
•	onse Status O						
				C/ 33 SC 33.7.3.2 Chabot, Craig	<i>P</i> 216 UNH-IOL	<i>L</i> 31	# 47
				<i>Comment Type</i> E The text associated wi	Comment Status X th this shall has changed.		
				SuggestedRemedy In the Feature cell, rep pd_autoclass is TRUE	lace current text with "PS	E reaches POWER	_ON state and
				Proposed Response	Response Status 0		
TYPE: TR/technical required ER/ec	literial required CD/co	norol required	L T/tashaisal E/aditarial C	/		216	Page 79 of 101

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

C/ 33 SC 33.7.3.2 Chabot, Craig	<i>P</i> 217 UNH-IOL	L 42	# 48	C/ 33 SC 33.7.3.2 Chabot, Craig	<i>P</i> 219 UNH-IOL	L 30	# 51
Comment Type E The text associated wit	Comment Status X th this shall has changed.			Comment Type E Typos in PSE119	Comment Status X		
SuggestedRemedy	0			SuggestedRemedy			
	lace "Type 2 PSE that uses S pe 2 PSE that uses Single-Ev ing time"			In Value/Comment cel	e "poweing" with "powering" I, add space between "MPS" a	and "has"	
Proposed Response	Response Status O			Proposed Response	Response Status O		
C/ 33 SC 33.7.3.2	P 219	L 19	# 49	C/ 33 SC 33.7.3.3 Chabot, Craig	<i>P</i> 221 UNH-IOL	L 27	# 52
Chabot, Craig	UNH-IOL			Comment Type E	Comment Status X		
Comment Type E	Comment Status X			More text associated v	vith this shall has been added	to 33.3.3.	
In the Value/Comment	cell, "Iport" should read "Ipor	t-2P"		SuggestedRemedy			
SuggestedRemedy Replace "Iport" with "Ip	port-2P"			with "According to stat	cell, replace "According to state e diagram shown in Figure 33		
Proposed Response	Response Status O			unless otheriwse spec Proposed Response	Response Status O		
C/ 33 SC 33.7.3.2 Chabot, Craig	P 219 UNH-IOL	L 24	# 50	C/ 33 SC 33.7.3.3	P 221	L 52	# 53
Comment Type E	Comment Status X			Chabot, Craig	UNH-IOL		
In the Value/Comment	cell, "Iport" should read "Ipor	t-2P"		Comment Type E	Comment Status X th this shall has been removed	Ч	
SuggestedRemedy Replace "Iport" with "Ip	port-2P"			SuggestedRemedy Delete PD15		u.	
Proposed Response	Response Status O			Proposed Response	Response Status 0		

Pa **221** Li **52**

C/ 33 SC 33.7.3.3 P 222 Chabot, Craig UNH-IOL	L 10	# 54	C/ 33 SC 33.7.3.3 P 223 L 3 # 58 Chabot, Craig UNH-IOL
Comment Type E Comment Status X The subclause noted is incorrect.			Comment Type E Comment Status X This shall applies to PDs that support autoclass
SuggestedRemedy			SuggestedRemedy
In the Subclause cell, replace "33.3.5" with "33.3.6"			In the Status cell, add "PDAC:M"
Proposed Response Response Status O			Proposed Response Response Status O
Ø 33 SC 33.7.3.3 P 222	L 12	# 55	C/ 33 SC 33.7.3.3 P 223 L 9 # 59
Chabot, Craig UNH-IOL			Chabot, Craig UNH-IOL
Comment Type E Comment Status X The subclause noted is incorrect.			Comment Type E Comment Status X The text associated with this shall has been removed.
SuggestedRemedy In the Subclause cell, replace "33.3.5" with "33.3.6"			SuggestedRemedy Delete PD30
Proposed Response Response Status O			Proposed Response Response Status O
C/ 33 SC 33.7.3.3 P 222 Chabot, Craig UNH-IOL	L 15	# 56	C/ 33 SC 33.7.3.3 P 223 L 20 # 60 Chabot, Craig UNH-IOL
Comment Type E Comment Status X This shall only applies to PDT3H			Comment Type E Comment Status X The text associated with this shall has been removed.
SuggestedRemedy In the Status cell, replace "PDT3:M" with "PDT3H:M"			SuggestedRemedy Delete PD33
Proposed Response Response Status O			Proposed Response Response Status O
C/ 33 SC 33.7.3.3 P 222	L 36	# 57	C/ 33 SC 33.7.3.3 P 223 L 32 # 61
Chabot, Craig UNH-IOL			Chabot, Craig UNH-IOL
Comment Type E Comment Status X This shall does not apply only to Type 2 PDs.			Comment TypeEComment StatusXThe text associated with this shall (PD36a) is not in subclause 33.3.6.2.1, it is in 33.3.6.2.
SuggestedRemedy In the Status cell, replace "PDT2:M" with "M"			SuggestedRemedy Delete PD36a, as it is replaced by another comment from me.
			Proposed Response Response Status O

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
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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
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C/ 33 SC 33.7.3.3 Chabot, Craig	<i>P</i> 223 UNH-IOL	L 34	# 62	C/ 33 SC 33.7.3 Chabot, Craig	3 P 224 UNH-IOL	L 29	# 66
Comment Type E	Comment Status X ith this shall (PD36b) is not in	subclause 33.3	.6.2.1, it is in 33.3.6.2.	Comment Type E	Comment Status X d with this shall (PD46) has bee	en added.	
SuggestedRemedy	replaced by another commen Response Status O			SuggestedRemedy Remove the text in t greater than Pclass Table 33-1"	he Value/Comment cell and re at the PSE PI and not to draw	place with "Not to	
C/ 33 SC 33.7.3.3 Chabot, Craig Comment Type E	P 224 UNH-IOL <i>Comment Status</i> X ith this shall (PD42) has chang	L 18	# 63	Proposed Response Cl 33 SC 33.7.3 Chabot, Craig	Response Status O 3 P 224 UNH-IOL	L 39	# 67
Proposed Response	Comment cell and replace wit <i>Response Status</i> O	h "At a voltage	in the range of Von_PD"	SuggestedRemedy	Comment Status X /Comments is incorrect ents cell, replace "Tinrush-2P m Response Status 0	nin" with "Tinrush	I-2P max"
SuggestedRemedy	P 224 UNH-IOL Comment Status X ith this shall (PD43) has chang Comment cell and replace wit Response Status O		# 64	SuggestedRemedy	3 P 224 UNH-IOL Comment Status X /Comments is incorrect ents cell, replace "Tinrush-2P m Response Status 0	L 43	# <u>68</u> n-2P max"
SuggestedRemedy	P 224 UNH-IOL Comment Status X ith this shall (PD44) has chang Comment cell and replace wit Response Status O	-	# 65				

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 **224** Li **43** Page 82 of 101 12/19/2016 11:30:16 A

C/ 33 SC 33.7.3.3 Chabot, Craig	<i>P</i> 224 UNH-IOL	L 46	# 69	C/ 33 SC 33.7.3.3 Chabot, Craig	3 P 224 UNH-IOL	L 49	# 71
Comment Type E Co PD51: Text in Value/Comme	omment Status X nts is incorrect			<i>Comment Type</i> E PD54: Text in Value/	Comment Status X Comments is incorrect		
SuggestedRemedy In the Value/Comments cell,	replace "Tinrush-2P m	in" with "Tinrush-	2P max"	SuggestedRemedy In the Value/Comme	nt cell, replace "Pclass_PD ma	x" with "Pclass_	PD"
Proposed Response Res	sponse Status O			Proposed Response	Response Status O		
C/ 33 SC 33.7.3.3 Jones, Chad	<i>Р</i> 224 Cisco	L 49	# 144	C/ 33 SC 33.7.3.3 Chabot, Craig	3 <i>P</i> 224 UNH-IOL	L 49	# 70
Comment Type ER Co PD54 contains the term PCIa standard during commenting any others in the text. SuggestedRemedy	_ /	0			Comment Status X		
change PClass_PD max to F Proposed Response Res	Pport_PD MAX			Proposed Response	Response Status O		
C/ 33 SC 33.7.3.3	P 224	L 49	# 72	C/ 33 SC 33.7.3.3 Chabot, Craig	3 <i>P</i> 224 UNH-IOL	L 52	# 73
Chabot, Craig	UNH-IOL			Comment Type E PD55 only applies to	Comment Status X single-signature PDs		
PD54 only applies to single-s SuggestedRemedy In the Feature cell, replace "I described in 33.3.8.4.1" with exception described in 33.3.8 and in the Status cell, add "P	signature PDs Peak power for any PD "Peak power for any P 3.4.1 for single-signatur	D operating cond		SuggestedRemedy In the Feature cell, re signature PDs" and in the Status cell Proposed Response	place "Peak operating power" add "PDSS:M" <i>Response Status</i> O	with "Peak oper	ating power for single-
,	sponse Status O						

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Comment Type E Comment Status X PD66 Feature should be written to the same convention used throughout the PICS (see PD65) Suggested/Remedy In the Feature only replace "Peak transient current" with "Peak transient current for single ignature PD5" Proposed Response Response Status 0 Cl 33 SC 33.7.3.3 P 225 L 24 # 75 Chabot, Craig UNH-HOL Comment Type E Comment Status X The text associated with this shall (PD68) appears to have been removed Suggested/Remedy In the Subclause Status 0 Cl 33 SC 33.7.3.3 P 226 L 32 # $\overline{77}$ Chabot, Craig UNH-HOL Comment Type E Comment Status X The text associated with this shall (PD68) appears to have been removed Suggested/Remedy In the Subclause ST.3.7.3.3 P 226 L 32 # $\overline{77}$ Chabot, Craig UNH-HOL Comment Type E Comment Status X The noted subclause in norrect Suggested/Remedy In the Subclause ST.3.7.3.3 P 226 L 32 # $\overline{77}$ Chabot, Craig UNH-HOL Comment Type E Comment Status X The noted subclause in norrect Suggested/Remedy In the Subclause ST.3.7.3.3 P 226 L 32 # $\overline{77}$ Chabot, Craig UNH-HOL Comment Type E Comment Status X The noted subclause is incorrect Suggested/Remedy In the Subclause ST.3.1.0" with "33.3.9" Proposed Response Response Status 0 Cl 33 SC 33.7.3.3 P 226 L 32 # $\overline{76}$ Chabot, Craig UNH-HOL Comment Type E Comment Status X The noted subclause is incorrect Suggested/Remedy In the Subclause cell, replace "33.3.8.10" with "33.3.9" Proposed Response Response Status X The noted subclause is incorrect Suggested/Remedy In the Subclause cell, replace "33.3.8.10" with "33.3.9" Proposed Response Response Status X The noted subclause is incorrect Suggested/Remedy In the Subclause cell, replace "33.3.8.10" with "33.3.9" Proposed Response Response Status X The noted subclause is incorrect Suggested/Remedy In the Subclause cell, replace "33.3.8.10" with "33.3.9" Proposed Response Response Status X The noted subclause is incorrect Suggested/Remedy In the Subclause cell, replace "33.3.8.10" with "33.3.9" Proposed Response	C/ 33 SC 33.7.3. Chabot, Craig	3 P 225 UNH-IOL	L 15	# 74	C/ 79 SC 79.1 Law, David	<i>Р</i> 234 НРЕ	L 10	# 195
PD61) a TLV odefine additional fields at the end of the information string, which IEEE P802.34B-2006 with the revision IEEE Std 802.1AB-2006 with evaluation IEEE Std 802.1AB-2009 with IEEE	Comment Type E	Comment Status X			Comment Type T	Comment Status X		
Duggesturber legy Proposed Response Response Status O 27 a3 SC 33.7.3.3 P 225 L 24 T 27 broked Response Response Status O Suggested/Remedy 27 chaot, Craig UNH-HOL Suggested/Remedy Suggested/Remedy 27 chaot, Craig UNH-HOL T T 27 chaot, Craig UNH-HOL T T 27 chaot, Craig UNH-HOL T T 28 subclause cell, replace "sals.11 (page 234, line 20), line 20), line 20, line 20		d be written to the same conver	ition used throug	ghout the PICS (see	a TLV to define additi	onal fields at the end of the inf	ormation string,	which IEEE P802.3bt
In the Feature cell, replace "Peak transient current for single- signature PDs" Proposed Response Response Status O SuggestedRemedy SuggestedRemedy In the Subclause cell, replace "33.3.8.10" with "33.3.9" Proposed Response Response Status O Cl 33 SC 33.7.33 P226 L32 # 76 Cl 33 SC 33.7.33 P226 L32 # 76 Cl 33 SC 33.7.33 P226 L32 # 77 Chabot. Craig UNH-IOL Comment Type E Comment Status X The noted subclause cell, replace "33.3.8.10" with "33.3.9" Proposed Response Response Status O Cl 33 SC 33.7.33 P226 L32 # 76 Cl 33 SC 33.7.33 P226 L32 # 77 Chabot. Craig UNH-IOL Comment Type E Comment Status X The noted subclause cell, replace "33.3.8.10" with "33.3.9" Proposed Response Response Status O Cl 33 SC 33.7.33 P226 L32 # 76 Cl 33 SC 33.7.33 P226 L32 # 77 Chabot. Craig UNH-IOL Comment Type E Comment Status X The noted subclause cell, replace "33.3.8.10" with "33.3.9" Proposed Response Response Status O Cl 33 SC 33.7.33 P226 L32 # 76 Cl 34 Subclause cell, replace "33.3.8.10" with "33.3.9" Proposed Response Response Status O Cl 33 SC 33.7.33 P226 L32 # 76 Cl 34 SC 33.7.33 P226 L32 # 76 Cl 35 Subclause cell, replace "33.3.8.10" with "33.3.9" Proposed Response Response Status O Cl 33 SC 33.7.33 P226 L32 # 76 Cl 34 SC 33.7.33 P226 L32 # 76 Cl 35 Subclause cell, replace "33.3.8.10" with "33.3.9" Proposed Response Response Status O Cl 33 SC 33.7.33 P226 L32 # 76 Cl 34 SC 33.7.33 P226 L32 # 76 Cl 35 Subclause cell, replace "33.3.8.10" with "33.3.9" Proposed Response Response Status O Suggestid-Remedy In the Subclause cell, replace "33.3.8.10" with "33.3.9" Proposed Response Response Response Status O Suggestid-Remedy In the Subclause cell, replace "33.3.8.10" with "33.3.9" Proposed Response Response Response Status O Suggestid-Remedy In the Subclause cell, replace "33.3.8.10" with "33.3.9" P	SuggestedRemedy				is doing. Since the re	vision IEEE Std 802.1AB-2016	Supersedes (ar	nd therefore
Cl 33 SC 33.7.3.3 P 225 L 24 # [75] Chabot, Craig UNH-HOL Comment Type E Comment Status X The text associated with this shall (PD68) appears to have been removed SuggestedRemedy Delete PD68 Proposed Response Response Status O Cl 33 SC 33.7.3.3 P 226 L 32 The toxt associated with this shall (PD68) appears to have been removed SuggestedRemedy Delete PD68 Proposed Response Proposed Response Status O Cl 33 SC 33.7.3.3 P 226 L 32 The noted subclause is incorrect Suggested/Remedy In the Subclause cell, replace "33.3.8.10" with "33.3.9" Proposed Response Response Status O Cl 33 SC 33.7.3.3 P 226 Cl 33		eplace "Peak transient current"	with "Peak trans	sient current for single-	updated to IEEE Std	802.1AB-2016 throughout the	draft with the ex	
21 33 SC 33.7.3.3 P 225 L 24 # [75] Chabot, Craig UNH-IOL Comment Type E Comment Status X The text associated with this shall (PD68) appears to have been removed SuggestedRemedy Delete PD68 Proposed Response Response Status O C/ 33 SC 33.7.3.3 P 226 L 32 # [77] Chabot, Craig UNH-IOL (Int e fullowing locations: C/ 33 SC 33.7.3.3 P 226 L 32 # [77] Chabot, Craig UNH-IOL Comment Type E Comment Status X The noted subclause is incorrect SuggestedRemedy In the Subclause cell, replace "33.3.8.10" with "33.3.9" Proposed Response Response Status O Ci 79 SC 79.1 P 234 L 10 # [94] Comment Type E Comment Status X Text in IEEE Std 802.1AB-20016'in the reference to IEEE Std 802.1AB-20018 supcesseds (and therefore incorporates) these corriged uning, which IEEE P802.3bt is doing. Since the revision IEEE Std 802.1AB-20018 supcessed (and therefore incorporates) these corrigentery inseges that the reference to IEEE Std 802.1AB-20018 supcessed (and therefore incorporates) these corriged uning, which IEEE Std 802.1AB-20018 supcessed (and therefore incorporates) these corriged uning, which IEEE Std 802.1AB-20018 supcessed (and therefore incorporates) these corriged uning, which IEEE Std 8	Proposed Response	Response Status O			SuggestedRemedy			
Chabot, Craig UNH-IOL Comment Type E Comment Status X The text associated with this shall (PD68) appears to have been removed SuggestedRemedy Delete PD68 Proposed Response Response Status O C1 33 SC 33.7.3.3 P 226 L 32 # 77 C1 33 SC 33.7.3.3 P 226 L 32 # 77 C1 33 SC 33.7.3.3 P 226 L 32 # 77 C1 33 SC 33.7.3.3 P 226 L 32 # 77 C1 33 SC 33.7.3.3 P 226 L 32 # 77 C1 33 SC 33.7.3.3 P 226 L 32 # 76 C1 33 SC 33.7.3.3 P 226 L 32 # 76 C1 33 SC 33.7.3.3 P 226 L 32 # 76 C1 33 SC 33.7.3.3 P 226 L 32 # 76 C1 33 SC 33.7.3.3 P 226 L 32 # 76 C1 33 SC 33.7.3.3 P 226 L 32 # 76 C1 33 SC 33.7.3.3 P 226 L 32 # 76 C1 33 SC 33.7.3.3 P 226	2/ 00 00 00 00 00						be updated to r	ead ' IEEE Std
Subclause of all provided to the provided t			L 24	# 75	[1] Subclause 33.5.1	(page 185_line 38)		
The text associated with this shall (PD68) appears to have been removed buggestedRemedy Delete PD68 Proposed Response Response Status O Cl 33 SC 33.7.3.3 P 226 L 32 # [77] Chabot, Craig UNH-IOL Comment Type E Comment Status X The noted subclause is incorrect BuggestedRemedy In the Subclause cell, replace "33.3.8.10" with "33.3.9" Proposed Response Response Status O Cl 33 SC 33.7.3.3 P 226 L 32 # [76] Cl 34 Subclause cell, replace "33.3.8.10" with "33.3.9" Proposed Response Response Status O Cl 35 SC 33.7.3.3 P 226 L 32 # [76] Cl 35 Subclause cell, replace "33.3.8.10" with "33.3.9" Proposed Response Response Status O Cl 33 SC 33.7.3.3 P 226 L 32 # [76] Cl 34 Subclause cell, replace "33.3.8.10" with "33.3.9" Proposed Response Response Status O Cl 35 SC 33.7.3.3 P 226 L 32 # [76] Cl 36 Subclause for the information string, which IEEE Std 802.1AB-2009' be updated to read ' IEEE Std 802.1AB-2016'. Proposed Response Response Status O Cl 35 SC 33.7.3.3 P 226 L 32 # [76] Cl 35 SC 33.7.3.3 P 226 L 32 # [76] Cl 35 Subclause cell, replace "33.3.8.10" with "33.3.9" Cl 35 SC 33.7.3.3 P 226 L 32 # [76] Cl 35 Subclause cell, replace "33.3.8.10" with "33.3.9" Cl 35 SC 33.7.3.3 P 226 L 32 # [76] Cl 35 Sc 33.7.3 P 226 L 32 # [76] Cl 35 Sc 33.7					[2] Subclause 33.7.3.	7 (page 231, line 20).		
is Subclause 79.1.1.1 (page 235, line 4). (i) Subclause 79.4 (page 247, line 14). <i>Proposed Response Response Status</i> O <i>Cl</i> 79 SC 79.1 <i>P</i> 234 <i>L</i> 10 <i>#</i> 194 Law, David HPE <i>Comment Status</i> X The noted subclause is incorrect <i>SuggestedRemedy</i> In the Subclause cell, replace "33.3.8.10" with "33.9." <i>Page L</i> 22 <i>#</i> 76 <i>Page L</i> 23 <i>#</i> 76	51		a hava haan rar	aavad				
Delete PD68 Proposed Response Response Status O' 33 SC 33.7.3.3 P 226 L 32 # 77 Chabot, Craig UNH-IOL The noted subclause is incorrect UNH-IOL SuggestedRemedy In the Subclause cell, replace "33.3.8.10" with "33.3.9" Poposed Response Response Status O C/ 33 SC 33.7.3.3 P 226 L 32 # 76 Comment Type Text in IEEE Std 802.1AB-2016 subclause 6.6.1) enables later versions of a TLV to define additional fields at the end of the information string, which IEEE P802.304 C/ 33 SC 33.7.3.3 P 226 L 32 # 76 C/ 33 SC 33.7.3.3 P 226 L 32 # 76 C/ 33 SC 33.7.3.3 P 226 L 32 # 76 C/ 33 SC 33.7.3.3 P 226 L 32 # 76 C/ 33 SC 33.7.3.3 P 226 L 32 # 76 Chabot, Craig UNH-IOL SuggestedRemedy IEEE Std 802.1AB-2016 Chabot, Craig UNH-IOL SuggestedRemedy IEEE Std 802.1AB-2009 Chabot, Craig UNH-IOL Proposed Response Response Status O		with this shall (PD66) appears t	b have been rer	lloved				
Proposed Response Response Status O 21 33 SC 33.7.3.3 P 226 L 32 # [77] Chabot, Craig UNH-IOL (Cl 79) SC 79.1 P 234 L 10 # [94] Comment Type E Comment Status X HPE (Cl 79) SC 79.1 P 234 L 10 # [94] SuggestedRemedy In the Subclause is incorrect SuggestedRemedy In the Subclause cell, replace "33.3.8.10" with "33.3.9" O Text in IEEE Std 802.1AB-2009/Cor1-2013 (see subclause 6.6.1) enables later versions of is doing. Since the revision IEEE Std 802.1AB-2016 supersedes (and therefore incorporates) these corrigendum, suggest that the reference to IEEE Std 802.1AB-2016 supersedes (and therefore incorporates) these corrigendum, suggest that the reference to IEEE Std 802.1AB-2016 supersedes (and therefore incorporates) these corrigendum, suggest that the reference to IEEE Std 802.1AB-2009' be updated to read ' IEEE Std 802.1AB-2009	,							
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Chabot, Craig UNH-IOL Comment Type E Comment Type E Comment Type Comment Type In the Subclause cell, replace "33.3.8.10" with "33.3.9" Proposed Response Response Status O' 33 SC 33.7.3.3 P 226 L 32 L 32 # [76] Chabot, Craig UNH-IOL Comment Status X The noted subclause is incorrect SuggestedRemedy In the Subclause is incorrect SuggestedRemedy In the Subclause cell, replace "33.3.8.10" with "33.3.9" P 26 L 32 # [76] P 276 L 32 # [76] P 276 L 32 # [76] P 276 D 276 L 32 # [76] P 276 L 32 </td <td>roposed Response</td> <td>Response Status O</td> <td></td> <td></td> <td>Proposed Response</td> <td>Response Status U</td> <td></td> <td></td>	roposed Response	Response Status O			Proposed Response	Response Status U		
Comment Type E Comment Status X The noted subclause is incorrect SuggestedRemedy In the Subclause cell, replace "33.3.8.10" with "33.3.9" Proposed Response Response Status O C1 33 SC 33.7.3.3 P 226 L 32 # 76 Chabot, Craig UNH-IOL Comment Type E Comment Status X The noted subclause is incorrect SuggestedRemedy In the Subclause cell, replace "33.3.8.10" with "33.3.9"	C/ 33 SC 33.7.3.	3 P 226	L 32	# 77			L 10	# 194
The noted subclause is incorrect SuggestedRemedy In the Subclause cell, replace "33.3.8.10" with "33.3.9" Proposed Response Response Status O C/ 33 SC 33.7.3.3 P 226 L 32 # 76 Chabot, Craig UNH-IOL Comment Type E Comment Status X The noted subclause is incorrect SuggestedRemedy In the Subclause cell, replace "33.3.8.10" with "33.3.9" Comment Status X The noted subclause is incorrect SuggestedRemedy In the Subclause cell, replace "33.3.8.10" with "33.3.9" Comment Type E Comment Status X The noted subclause is incorrect SuggestedRemedy In the Subclause cell, replace "33.3.8.10" with "33.3.9"	Chabot, Craig	UNH-IOL			Law, David	HPE		
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SuggestedRemedy In the Subclause cell, replace "33.3.8.10" with "33.3.9" Proposed Response Response Status O SuggestedRemedy In the Subclause cell, replace "33.3.8.10" with "33.3.9" Proposed Response Response Status O SuggestedRemedy In the Subclause cell, replace "33.3.8.10" with "33.3.9" is doing. Since the revision IEEE Std 802.1AB-2016 supersedes (and therefore incorporates) these corrigendum, suggest that the reference to IEEE Std 802.1AB-2009' be updated to read ' IEEE Std 802.1AB-2009' be updated to read ' IEEE Std 802.1AB-2009' be updated to read ' IEEE Std 802.1AB-2016'. Cl 33 SC 33.7.3.3 P 226 L 32 # 76 Chabot, Craig UNH-IOL Suggest that the text ' IEEE Std 802.1AB-2009' be updated to read ' IEEE Std 802.1AB-2016'. Comment Type E Comment Status X The noted subclause is incorrect SuggestedRemedy Not support to the subclause cell, replace "33.3.8.10" with "33.3.9" In the Subclause cell, replace "33.3.8.10" with "33.3.9" Support to the super control status to the super contrect to the super control status to the super contrect	The noted subclause	e is incorrect						
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Proposed Response Response Status O Suggested Remedy Suggested Remedy Suggested Remedy Number of the subclause is incorrect Suggested Remedy In the Subclause cell, replace "33.3.8.10" with "33.3.9"	In the Subclause cel	I, replace "33.3.8.10" with "33.3	.9"				eference to IEEE	E Std 802.1AB-2009 b
2/33 SC 33.7.3.3 P 226 L 32 # 76 2/33 SC 33.7.3.3 P 226 L 32 # 76 2/absolution UNH-IOL Suggest that the text ' IEEE Std 802.1AB-2009' be updated to read ' IEEE Std 802.1AB-2016'. 2/absolution VINH-IOL Proposed Response 2/absolution Response Status O 2/absolution Suggest dRemedy In the Subclause cell, replace "33.3.8.10" with "33.3.9" P 200	Proposed Response	Response Status O			·	502. TAD-2010.		
C/ 33 SC 33.7.3.3 P 226 L 32 # 76 802.1AB-2016'. Chabot, Craig UNH-IOL Proposed Response Response Status O Comment Type E Comment Status X The noted subclause is incorrect SuggestedRemedy In the Subclause cell, replace "33.3.8.10" with "33.3.9" In the Subclause cell, replace "33.3.8.10" with "33.3.9"					,	IEEE Std 802 1AB-2009	be undated to r	ead ' IEEE Std
Comment Type E Comment Status X The noted subclause is incorrect SuggestedRemedy In the Subclause cell, replace "33.3.8.10" with "33.3.9"	C/ 33 SC 33.7.3.	3 P 226	L 32	# 76				
The noted subclause is incorrect SuggestedRemedy In the Subclause cell, replace "33.3.8.10" with "33.3.9"	Shabot, Craig	UNH-IOL			Proposed Response	Response Status 0		
In the Subclause cell, replace "33.3.8.10" with "33.3.9"								
		I, replace "33.3.8.10" with "33.3	.9"					

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Page, Line Pa **234** Li **10** Page 84 of 101 12/19/2016 11:30:16 A

<i>Cl</i> 79 SC 79.1 Law, David	<i>P</i> 234 HPE	L 23	# 196	Cl 79 SC 79.3.2 P 230 Skinner, John Sifos T	<i>L</i> 38 Echnologies, In	# 274	
Comment Type T	Comment Status X			Comment Type TR Comment Status	0		
Subclause 79.1 state provided in subclaus Std 802.1AB-2009, ir 'Organizationally Spe	s that ' procedures for definit 9.6 of IEEE Std 802.1AB-200 Istead there was a subclause s cific TLVs' which became subc 2.1AB-2009 and remains subc	09.'. There is no 9.6 in IEEE Std clause 8.6 'Orga	subclause 9.6 in IEEE 802.1AB-2005 titled inizationally Specific	Figure 79–3—Power Via MDI TLV format pag power value Mode A", "PD requested power v Alternative A", and "PSE allocated power valu There are no corresponding sections describi	e 236 contains new f ralue Mode B", "PSE le Alternative B".	fields "PD requested allocated power value	
SuggestedRemedy				SuggestedRemedy			
	' in subclause 79.1 change ' ad ' in subclause 8.6 of IEEE			Add the following on page 239:			
Proposed Response	Response Status 0			In section 79.3.2.5 PD requested power value	, additional statemer	nt:	
	P 235	L 11	# 21	For Type 3 and 4 devices, the value should be requested power value Mode B).	୬ (PD requested pow	ver value Mode A + PD	
Anslow, Pete	Ciena	211	# 21	New section 79.3.2.5.1 PD requested power v	alue Mode A		
Comment Type E	Comment Status X			The PD requested power value is encoded ac	cording to Equation ((79–1).	
There is no need for SuggestedRemedy	the text "(note: the "-" between	88 and CC nee	d to be struck)"	The value should be (PD requested power va	ue - PD requested p	ower value Mode B).	
Delete the note and o	hange the text in 79.1.1.3 to b owed by "0x88CC " in underlin		mal value: 88-CC " in	New section 79.3.2.5.2 PD requested power v	alue Mode B		
Proposed Response	Response Status O			The PD requested power value is encoded ac	cording to Equation ((79–1).	
				The value should be (PD requested power va	ue - PD requested p	ower value Mode A).	
<i>Cl</i> 79 SC 79.3.2 Law, David	<i>P</i> 236 HPE	L 25	# 197	In section 79.3.2.6 PSE allocated power value	, additional statemer	nt:	
Comment Type E	Comment Status X			For Type 3 and 4 devices, the value should be PSE allocated power value Alternative B).	PSE allocated power in the second	ver value Alternative A +	
Suggest that the tern SuggestedRemedy	n 'Power Via MDI' rather than 'I	NDI power supp	ort' be used.	New section 79.3.2.6.1 PSE allocated power	value Alternative A		
00	IDI power support' be chang	ged to read ' P	ower Via MDI TLV'.	The PSE allocated power value is encoded a	cording to Equation	(79–2).	
Proposed Response	Proposed Response Response Status O			The value should be (PSE allocated power value - PSE allocated power value Alternative B).			
				New section 79.3.2.6.2 PSE allocated power	value Alternative B		
				The PSE allocated power value is encoded a	cording to Equation	(79–2).	
				The value should be (PSE allocated power va	lue - PSE allocated r	oower value Alternative	

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 **236** Li **38** Page 85 of 101 12/19/2016 11:30:16 A

Add PICS items immediately after PVT12 and PVT13 in the MDI TLV PICS table, page 253 for the new Alternative power fields and related new sections.

Proposed Response

Response Status **O**

CI 79	SC 79.3.2		P 237	L 2	#	198
Law, David		ŀ	HPE			

Comment Type **TR** Comment Status **X**

The text states that '... the legacy Power via MDI TLV originally defined in IEEE Std 802.1AB-2009 Annex F.3.' however the Power Via MDI TLV was first defined in IEEE Std 802.1AB-2005 Annex G.3. The text then goes on to describe 'newly' added fields in respect to the fields added by the amendment IEEE Std 802.3at-2009, now superseded by IEEE 802.3-2015, to support Data Link Layer (DLL) classification.

The text then states that the revised (read IEEE Std 802.3at-2009) TLV can be used by the PSE only when it is supplying power to a PI ... and by the PD only when it is drawing power from the PI.'. In the final paragraph it then states that the TLV has been further revised (read IEEE Std 802.3bt-201X) and that 'Type 3 and Type 4 PSEs and PDs may use these additional fields.'.

Since the IEEE Std 802.3bt-201X added fields come after the IEEE Std 802.3at-2009 added fields, and since the IEEE Std 802.3at-2009 fields can't be sent until power is being supplied/sourced, by definition IEEE Std 802.3bt-201X added fields can't be sent until power is being supplied/sourced either.

The text then states that 'If the power entity implements Data Link Layer classification, it shall use the Power via MDI TLV shown in Figure 79–3 after the PI has been powered.'. Since Figure 79–3 includes the Type 3 and Type 4 extension this text seems to mandate existing Type 2 implementation provide the Type 3 and Type 4 extension which I don't think is the intent.

Finally it is stated that 'The TLV in Figure 79–3 has been further revised to support additional capabilities offered by Type 3 and Type 4 PSEs and PDs as defined in Clause 33. Type 3 and Type 4 PSEs and PDs may use these additional fields.'. The use of the 'may' in the second sentence in respect to these additional fields implies an option, but isn't the option support of DLL classification by a Type 3 or Type 4 device, and if such a device supports DLL classification, support of these additional fields is mandatory.

SuggestedRemedy

Suggest that:

[1] In Figure 79–3 'Power Via MDI TLV format' the three 'legacy' fields 'MDI Power support', 'PSE Power pair', and ' Power Class' be annotated 'Basic fields' in the same way that the Type 3 and Type 4 related fields are annotated 'Type 3 and Type 4 extension'.

[1] In Figure 79–3 'Power Via MDI TLV format' the three DLL classification related fields 'Type/source/priority', 'PD Requested power value' and 'PSE Allocated power value' be annotated 'DLL classification extension' in the same way that the Type 3 and Type 4 related fields are annotated 'Type 3 and Type 4 extension'.

[2] Paragraph 2 of subclause 79.3.2 be replaced with the following:

The Power via MDI TLV shown in Figure 79-3 was originally defined in IEEE Std 802.1AB-

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	Pa 237	Page 86 of 101
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	Li 2	12/19/2016 11:30:16 A
SORT ORDER: Page, Line		

2005 Annex G.3. This original TLV only supported the first three fields of Figure 79-3, labelled basic fields, enabling discover and advertisement of Power via MDI capabilities. The Power via MDI TLV was revised by IEEE Std 802.3at-2009 to add a further three fields, labelled DLL classification extension, to provide Data Link Layer (DLL) classification capabilities. The Power via MDI TLV was revised again by IEEE Std 802.3bt-201X to add a further nine fields, labelled Type 3 and Type 4 extension to support additional capabilities offered by Type 3 and Type 4 PSEs and PDs.

Power entities may continue to use the Power Via MDI TLV basic fields shown in Figure 79–3 prior to supplying/drawing power to/from the PI. The DLL classification extension fields and Type 3 and Type 4 extension fields shown in Figure 79–3 can be used by the PSE only when it is supplying power to a PI encompassed within an MDI and by the PD only when it is drawing power from the PI.

If a Type 1 or Type 2 power entity implements Data Link Layer classification, it shall support the Power Via MDI TLV DLL classification extension fields shown in Figure 79–3 after the PI has been powered. If a Type 3 or Type 4 power entity implements Data Link Layer classification, it shall support both the DLL classification extension fields and Type 3 and Type 4 extension fields shown in Figure 79–3 after the PI has been powered.

Proposed Response	Response Status	0	
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CI 79	SC 79.3.2.2	P 237	L 42	# 270
Schindle	r, Fred	Seen Simply,	Cisco, T	

Comment Type TR Comment Status X

IEEE Clause 30 and 79 text references RFC 3621 for TLV and MIB variable definitions, which is no longer correct. IEEE Std 802.3.1-2013 states in Clause 1 'Overview' that 'This document supersedes and makes obsolete ... IETF RFC 3621 ...'. This comment should close TDL D2.1 #283.

SuggestedRemedy

Replace legacy text, page 237 in 79.3.2.2 and 79.3.2.3

"... object in IETF RFC 3621." with,

"... object."

Make the same correct to text in PICs page 253 79.5.8, PVT2 and PVT4. David Law is also provide text in Clause 30 to fix these concerns.

Proposed Response Response Status **O**

Cl 79	SC 79.3.2.2	P 237	L 44	#	199
Law, David		HPE			

Comment Type **TR** Comment Status **X**

The reference to pethPsePortPowerPairs is somewhat indirect since pethPsePortPowerPairs in RFC 3621, which has now been deprecated by IEEE Std 802.3.1-2013, and in IEEE Std 802.3.1-2013 itself, both reference back to IEEE Std 802.3, subclause 30.9.1.1.4 aPSEPowerPairs. The one item that pethPsePortPowerPairs provides, that aPSEPowerPairs does not, is values assigned to each enumeration, which are the values used in the TLV. For this reasons, rather than reference an item in an external standard, that then references back in to a subclause of IEEE Std 802.3, suggest that a direct reference to the subclause in IEEE Std 802.3 be provided, along with a table providing the mapping between the pair in use and the value in the TLV with the mapping identical to that in pethPsePortPowerPairs.

In addition the pethPsePortPowerPairs object is part of the pethPsePortEntry object, a set of objects '... that display and control the power characteristics of a power Ethernet PSE port ...' (see IEEE Std 802.3.1-2013 subclause 8.5) and hence only exist for a PSEs. Based on this there is no behaviour defined for the PSE power pair bits for a Power Via MDI TLV sourced by a PD.

Further, the first three fields of the Power Via MDI TLV can be sent both before and after power is being supplied to the PD, see second paragraph of 79.3.2. Due to this the two new sentences 'Type 3 or Type 4 PSEs that are furnishing power ...' and 'Either pairset may be indicated when furnishing power ...' cover when power is being supplied, but not before power is being supplied. Suggest either pairset be used here as well. The Type 3 and Type 4 extension however, which includes the PSE power status field defined in 79.3.2.6a, is only sent after power is being supplied, see second paragraph of 79.3.2, hence can only be used to communicate that both pairsets are being used to supply power.

Finally suggest that '... supplying power ...' be used rather that '... furnishing power ...'.

SuggestedRemedy

Suggest that subclause 79.3.2.3 be changed to read:

The PSE power pair field transmitted by a PSE shall contain an integer value as defined in Table 79-X based on pethPsePortPowerPairs. A Type 3 or Type 4 PSEs that is supplying power on a single pairset shall use the value that defines that pairset (signal=Alternative A, spare=Alternative B). Either pairset may be indicated when a PSE is detecting or supplying power on both pairsets. The PSE power status value field defined in 79.3.2.6a can indicate when a PSE is supplying power on both pairsets. The value of the PSE power pair field transmitted by a PD is undefined.

Table 79-X - PSE power pair field

- Value Meaning
- 1 signal
- 2 spare

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Proposed Response	Response Status	0	CI 79	SC 79.3.2.3	P 237	L 52	# 200
			Law, David		HPE		
			Comment T	ype TR	Comment Status X		
			pethPsel Std 802.3 802.3, st pethPsel values a: aPSEPo 5 througl pethPsel	ePortPowerClas 2.3.1-2013, and is subclause 30.9. ePortPowerClas assigned to eac owerClassification gh class 8 in IEE	sePortPowerClassifications is sifications in RFC 3621, whic in IEEE Std 802.3.1-2013 itse 1.1.6 aPSEPowerClassifications sifications provides, that aPS h enumeration, which are the on attribute however has had EP802.3bt but values for the sifications, nor is there any de	h has now been off, both reference on. The one item EPowerClassific values used in t addition enumer ose enumeration	deprecated by IEEE the back to IEEE Std that cation does not, is the TLV. The rations added for class as aren't provided in
			referen subclau betwee mappin additior subclau mapped	ces back in to a use in IEEE Std n the detected F g should be iden s for class 5 thr use 79.3.2.2 'PS d to class 4, noti	er than reference an item in a subclause of IEEE Std 802.3 802.3 be provided, along with 2D power class and the value: htical to that found in pethPse ough class 8. Suggest that ar E power pair' above be used ing that the additional classes ified in subclause 79.3.2.6a.	, suggest that a a table providin s in the TLV Pov PortPowerClass n approach simil here, and that cl	direct reference to the og the mapping wer class field. This sifications with lar to that used in lass 5 through 8 be
			a set of PSE po Based	objects ' that	PowerClassifications object is display and control the power Std 802.3.1-2013 subclause to behaviour defined for the P	characteristics 8.5) and hence of	of a power Ethernet only exist for a PSEs.
			Suggested	Remedy			
			Sugges	t that subclause	79.3.2.3 be changed to read	:	
			Table 7 same v	9-X based on al alue in this field	ansmitted by a PSE shall con PSEPowerClassification. Clas as the Class 4 and above is o a. The power class field trans	ss 4 and above is communicated b	s indicated with the by the Power Class
			Table 7 Value 1 2 3 4 5	9-X - Power clas Meaning Class 0 PD Class 1 PD Class 2 PD Class 3 PD Class 4 and at			
			Proposed F	Response	Response Status O		

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<i>Cl</i> 79 SC 79.3.2.4 Law, David	<i>Р</i> 238 НРЕ	<i>L</i> 1	# 201	C/ 79 SC 79.3.2.6 Law, David	6 P 239 HPE	L 19	# 204
Comment Type T Comm	ent Status X			Comment Type E	Comment Status X		
Since 'requested' does not appe the 'power type' and 'power sour sourcing power, suggest that 'Re	ce' bits, these bits s	state what the de	evices is and where it is		and 79-2 as they are no lor ted power value and PSE a		
SuggestedRemedy				SuggestedRemedy			
Suggest that subclause 79.3.2.4 read 'Power type/source/priority'		type/source/prio	rity' be changed to	30.12.2.1.17, 30.12.2	and 79-2. Remove referend .1.18, 30.12.2.1.18g, 30.12		
Proposed Response Respon	nse Status O			33.5.3.9.			
				Proposed Response	Response Status O		
79 SC 79.3.2.4	P 238	L 27	# 202				
aw, David	HPE			C/ 79 SC 79.3.2.5		L 25	# 273
omment Type T Comm	nent Status X			Skinner, John	Sifos Tech	hnologies, In	
According to Table 79-9 the attri	bute aLldpXdot3Lo	cPowerPriority m	aps to the 'Power	Comment Type ER	Comment Status X		
				0	INC in the state in a local sector of the		In hits 4 F.O. in famous of
priority' bits which according to 1 on this suggest that the 'meanin aLldpXdot3LocPowerPriority and	able 79-10 maps to g' listed in Table 79	-4 match the enu			"X is the decimal value of t atement on line 50, from wl		
priority' bits which according to 1 on this suggest that the 'meanin aLldpXdot3LocPowerPriority and	able 79-10 maps to g' listed in Table 79	-4 match the enu		differently from the st			
priority' bits which according to 1 on this suggest that the 'meanin aLldpXdot3LocPowerPriority and	able 79-10 maps to g' listed in Table 79	-4 match the enu		differently from the st been stricken. SuggestedRemedy Modify the statement		hich the phrase "th atement on line 50,	e decimal value of" has
priority' bits which according to 1 on this suggest that the 'meanin aLldpXdot3LocPowerPriority and SuggestedRemedy Suggest that: 'low' be changed to read 'low pri- 'high' be changed to read 'high p 'critical' be changed to read 'criti	able 79-10 maps to g' listed in Table 79 l aLldpXdot3RemPo riority PD' riority PD' cal priority PD'	-4 match the enu		differently from the st been stricken. SuggestedRemedy Modify the statement	atement on line 50, from wi on line 25 to match the sta	hich the phrase "th atement on line 50,	e decimal value of" has
priority' bits which according to T on this suggest that the 'meanin aLldpXdot3LocPowerPriority and SuggestedRemedy Suggest that: 'low' be changed to read 'low prio 'high' be changed to read 'high p 'critical' be changed to read 'criti 'unknown' be changed to read 'p	able 79-10 maps to g' listed in Table 79 l aLldpXdot3RemPo riority PD' riority PD' cal priority PD'	-4 match the enu		differently from the st been stricken. <i>SuggestedRemedy</i> Modify the statement on line 50 to its previo	atement on line 50, from wi on line 25 to match the sta bus form, matching the stat <i>Response Status</i> O	hich the phrase "th atement on line 50,	e decimal value of" has
priority' bits which according to T on this suggest that the 'meanin aLldpXdot3LocPowerPriority and SuggestedRemedy Suggest that: 'low' be changed to read 'low prio 'high' be changed to read 'high p 'critical' be changed to read 'criti 'unknown' be changed to read 'p	able 79-10 maps to g' listed in Table 79 aLldpXdot3RemPo riority PD' riority PD' cal priority PD' riority unknown'	-4 match the enu		differently from the st been stricken. SuggestedRemedy Modify the statement on line 50 to its previo Proposed Response Cl 79 SC 79.3.2.6	atement on line 50, from wi on line 25 to match the sta bus form, matching the stat <i>Response Status</i> O	hich the phrase "th atement on line 50, tement on line 25.	e decimal value of" has or revert the statement
priority' bits which according to T on this suggest that the 'meanin aLldpXdot3LocPowerPriority and uggestedRemedy Suggest that: 'low' be changed to read 'low pri- 'high' be changed to read 'high p 'critical' be changed to read 'reit 'unknown' be changed to read 'p proposed Response Responder To 79 SC 79.3.2.4.2	able 79-10 maps to g' listed in Table 79 aLldpXdot3RemPo riority PD' riority PD' cal priority PD' riority unknown'	-4 match the enu		differently from the st been stricken. SuggestedRemedy Modify the statement on line 50 to its previo Proposed Response CI 79 SC 79.3.2.6 Skinner, John Comment Type ER New sections labelled	atement on line 50, from who on line 25 to match the sta bus form, matching the stat <i>Response Status</i> O <i>P</i> 240 Sifos Tech	hich the phrase "th atement on line 50, tement on line 25. <i>L</i> 1 hnologies, In 3.2.6c, 79.3.2.6d ar	or revert the statement # 272 d 79.3.2.6e located on
priority' bits which according to T on this suggest that the 'meanin aLldpXdot3LocPowerPriority and SuggestedRemedy Suggest that: 'low' be changed to read 'low pri- 'high' be changed to read 'high p 'critical' be changed to read 'high p 'critical' be changed to read 'read 'unknown' be changed to read 'p Proposed Response Respon C/ 79 SC 79.3.2.4.2 aw, David	Table 79-10 maps to g' listed in Table 79 d aLldpXdot3RemPo riority PD' cal priority PD' riority unknown' nse Status O	-4 match the enuoverPriority.	umerations defined for	differently from the st been stricken. SuggestedRemedy Modify the statement on line 50 to its previo Proposed Response CI 79 SC 79.3.2.6 Skinner, John Comment Type ER New sections labelled	atement on line 50, from who on line 25 to match the sta bus form, matching the stat <i>Response Status</i> O <i>P</i> 240 Sifos Tech <i>Comment Status</i> X 179.3.2.6a, 79.3.2.6b, 79.3	hich the phrase "th atement on line 50, tement on line 25. <i>L</i> 1 hnologies, In 3.2.6c, 79.3.2.6d ar	or revert the statement # 272 d 79.3.2.6e located on
priority' bits which according to T on this suggest that the 'meanin aLldpXdot3LocPowerPriority and SuggestedRemedy Suggest that: 'low' be changed to read 'low pri- 'high' be changed to read 'high p 'critical' be changed to read 'high p 'critical' be changed to read 'read 'unknown' be changed to read 'p Proposed Response Respon Cr 79 SC 79.3.2.4.2 aw, David	Table 79-10 maps to g' listed in Table 79 d aLldpXdot3RemPo riority PD' riority PD' riority unknown' nse Status O P 238 HPE ent Status X	-4 match the enu owerPriority.	umerations defined for	differently from the st been stricken. SuggestedRemedy Modify the statement on line 50 to its previo Proposed Response CI 79 SC 79.3.2.6 Skinner, John Comment Type ER New sections labelled pages 240242 do no SuggestedRemedy To fit between the exit	atement on line 50, from wi on line 25 to match the sta bus form, matching the stat <i>Response Status</i> O <i>P</i> 240 Sifos Tech <i>Comment Status</i> X 179.3.2.6a, 79.3.2.6b, 79.3 of following the naming com sting sections 79.3.2.6 and	hich the phrase "th atement on line 50, tement on line 25. <i>L</i> 1 hnologies, In 3.2.6c, 79.3.2.6d ar vention of the 802.	# 272 and 79.3.2.6e located on 3 specification. anould be labelled
priority' bits which according to T on this suggest that the 'meanin aLldpXdot3LocPowerPriority and SuggestedRemedy Suggest that: 'low' be changed to read 'low pri- 'high' be changed to read 'high p 'critical' be changed to read 'low pri- 'high' be changed to read 'low pri- 'hight' be changed to rea	Table 79-10 maps to g' listed in Table 79 d aLldpXdot3RemPo riority PD' riority PD' riority unknown' ase Status O P238 HPE ment Status X upplying' power thro	-4 match the endowerPriority.	# 203	differently from the st been stricken. SuggestedRemedy Modify the statement on line 50 to its previo Proposed Response CI 79 SC 79.3.2.6 Skinner, John Comment Type ER New sections labelled pages 240242 do no SuggestedRemedy To fit between the exi 79.3.2.6.179.3.2.6.5	atement on line 50, from wi on line 25 to match the stat bus form, matching the stat <i>Response Status</i> O <i>P</i> 240 Sifos Tech <i>Comment Status</i> X 179.3.2.6a, 79.3.2.6b, 79.3 ot following the naming com	hich the phrase "th atement on line 50, tement on line 25. <i>L</i> 1 hnologies, In 3.2.6c, 79.3.2.6d ar vention of the 802. d 79.3.2.7, these sh n labels are potenti	# 272 and 79.3.2.6e located on 3 specification. anould be labelled ally subject to change
priority' bits which according to T on this suggest that the 'meanin aLldpXdot3LocPowerPriority and SuggestedRemedy Suggest that: 'low' be changed to read 'low pri- 'high' be changed to read 'high p 'critical' be changed to read 'p Proposed Response Respon- Cl 79 SC 79.3.2.4.2 Law, David Comment Type T Comm A PSE is usually described as 's Suggest that ' when the PSE is ' when the PSE is supplying po	Table 79-10 maps to g' listed in Table 79 d aLldpXdot3RemPo riority PD' riority PD' riority unknown' ase Status O P238 HPE pent Status X upplying' power threes s sourcing its power	-4 match the endowerPriority.	# 203	differently from the st been stricken. SuggestedRemedy Modify the statement on line 50 to its previo Proposed Response CI 79 SC 79.3.2.6 Skinner, John Comment Type ER New sections labelled pages 240242 do no SuggestedRemedy To fit between the exi 79.3.2.6.179.3.2.6.5 related to a separate	atement on line 50, from who on line 25 to match the stat bus form, matching the stat <i>Response Status</i> O <i>P</i> 240 Sifos Tech <i>Comment Status</i> X 179.3.2.6a, 79.3.2.6b, 79.3 of following the naming com- sting sections 79.3.2.6 and . (NOTE: the exact section comment regarding missing bels, such as 79.3.2.6a.1, 1	hich the phrase "the atement on line 50, tement on line 25. <i>L</i> 1 hnologies, In 3.2.6c, 79.3.2.6d ar vention of the 802. d 79.3.2.7, these sh h labels are potenti g description section	# 272 and 79.3.2.6e located on 3 specification. ally subject to change ons for new TLV fields)

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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 1	12/19/2016 11:30:16 A
SORT ORDER: Page, Line		

CI 79 SC 7	79.3.2.6a	P 240	L 5	# 205	CI 79	SC 79.3.2.6a	a P 240	L 22	# 425
Law, David		HPE	-		Yseboodt, Ler	nnart	Philips		
Comment Type	E Coi	mment Status X			Comment Typ	e TR	Comment Status X		
	he 'Power statu	wer Via MDI TLV forma s' field, not the ' Power		lause 79.3.2.6a title this eld.	Dual-sign The clear	ature was no lest fix is to e	e field has 4 bits allocated to t taken into account here. xtend this field to 16 bit. I pre		
Suggest that:	,				0	to the existing	g bits.		
					SuggestedRe				
Power status f [2] On page 24	field'. 40 line 9 the tab Table 79-6a-Pov	kt 'The Power status va ole title be changed fro wer status field'. <i>ponse Status</i> 0		0	- In the sa - In Table * Power * Fill out	ame Figure, e 79-6a insert Class Mode the table in s red values are	e "PSE power status" to "Po extend this field by 1 octet. between bit 4 and 3 two new A and Power Class Mode B similar fashion as "Power Cla e "0 0 0", "1 1 0" and " 1 1 1"	fields, each of 3 ss" for Class 1 tl	nrough 5
C/ 79 SC 7	79.3.2.6a	<i>P</i> 240 HPE	L 21	# 206	to value 1	"PSEs con 5".	79.3.2.6a.2 the following ser nected to a dual-signature P	D and dual-signa	
from the Powe	t3LocPowerCla er classx' bits a	ssx' to differentiate the	and 79-10 resp	attributes map to and vectively, and these bits erent 'Power class' bits		- Add new si n as single-s - Add approp	alue/meaning of "1 1 1 1 " of F ubsection after 79.3.2.6a.2 fo ignature. priate managed objects in Cl <i>Response Status</i> 0	or Mode A and M	
SuggestedRemed	ly								
Change 'Powe title on line 43		l 'Power Classx' as foll	ows on line 22 a	and in the subclause	C/ 79 Law, David	SC 79.3.2.6a	a.2 <i>P</i> 240 HPE	L 43	# 207
Proposed Respon	ise Res	ponse Status O			Comment Typ	e E	Comment Status X		
							2.3 already defines 'Power cl as they have been in Table 7		t these bits should be
					SuggestedRe	medy			
					Suggest t	hat:			
					power cla [2] Bits 3:	ssx,'. 0 in Table 79	8.2.6a text that reads ' pow ⊢6a be changed to read 'Pov		nanged to read '
					[3] The tit	le of subclau	se 79.3.2.6a.2 be changed to	read 'Power cla	ssx'.

Pa **240** Li **43**

C/ 79 SC 79.3.2.6b	P 240	L 51	# 208	Cl 79	SC 79.3.2.6		L 12	# 107
According to Figure 79–3 'Pov field if called the 'System setu SuggestedRemedy Suggest that: [1] On page 240 line 51 the te System setup field'. [2] On page 241 line 1 the tab field' to read 'Table 79-6b-Sys	p' field, not the 'Syster xt 'The System setup le title be changed fro	m setup value' f value field' be	eld. e changed to read 'The	The te "Using maxim In add I belie a) It is b) Wh c) Wh d) Wh e) Wh	<i>Type</i> TR #41 and #129 E ext says: the Autoclass hum power cons lition Table 79-5 ve the definition	id tries to specify some "hand as are incomplete and may ca s initiating the request for new sequence? er? Acknowledge?	dshake" paramet ause issues.	ers.
The 'PD PI' field does not exis SuggestedRemedy Change the text ' the Power type, PD 4PID and PD Load	type, PD 4PID, PD PI		# 209	Proposed Cl 79 Yseboodt, Comment	completed for th Response SC 79.3.8 Lennart Type T	his meeting, keep it in the TD Response Status 0 P 243 Philips Comment Status X wer measurement field in the	L1	# <u>426</u>
The values defined for the Sys the values for this field when t SuggestedRemedy Suggest the text 'The value of be added to the end of subcla	he TLV is transmitted the System setup fiel	by a PSE need	s to be defined.	Currer Suggested Do the - Exter - Add - Add - Add - Add - Add - Add	htly it's Current <i>Remedy</i> a following: nd the PD and an Power reque a Power measu a power accura power support st text in 79.3.8 Clause 30 man	Voltage and Energy. PSE measurements by 3 byte est bit irrement field cy field ield .1 and 79.3.8.2		

Pa **243** Li **1**

C/ 79 SC 79.3.8 Law, David	<i>P</i> 243 HPE	L 6	# 211	<i>Cl</i> 79 Law, David	SC 79.3.8	<i>P</i> 243 HPE	L 10	#	212
Comment Type E	Comment Status X			Comment T	ype TR	Comment Status X			
Туро.						Measurements TLV define	s 12 octets for th	e PD mea	surements
SuggestedRemedy				field and	d 12 octets for th	e PSE measurements.			
	the sample generic cabling'	should be char	nged to read ' over the			b, when transmitted by a Ps in use as they all relate to F			
Proposed Response	Response Status O			90 in us	se indicating wha	t measurements are being	requested by the	PSE. The	n, according
				use as t	they relate to PS	wing PSE measurements fine E measurements, with bits and which are disabled.			
				91 to 95 indicate measur measur	5 in use as they r which measurer rements field bits	ed by a PD, the PD measure elate to PD measurements nents are valid and which a 0 to 87 and 91 to 95 will no t bits 88 to 90 in use indicat	, with bits 88 to 9 are disabled. The at be in use as the	0 in use as n in the fol ey all relate	s they llowing PSE e to PSE
			used ou efficient	ut of the 192 bits t. In addition this	can be seen in the summa of the PD and PSE measur results in a set of PD and F h are not used in each devi	ement fields which set which set attributes in the set of the set	ch doesn't	seem very	
				TLT trai	nsmitted by PSE	:			
					asurements field				
					7: Not in use				
): In use 5: Not in use				
					easurements field	d			
					7: In use				
): in use				
				91 to 95	5: In use				
				TLT trai	nsmitted by PD:				
					asurements field				
					7: In use				
): In use				
					5: In use easurements fiel	4			
				-	7: Not in use	Li di la constante di la consta			
): In use				
					5: Not in use				
				In addit	ion subclause 8.0	6 'Organizationally Specific	TLVs' item b) of	IEEE Std	802.1AB-
VDE: TD/toobaical roqui	ed ER/editorial required GR/			<u>.</u>		Pa 2		-	age 92 of 101

TYPE: TR/technical required ER/editorial required GR/gene	ral required T/technical E/editorial G/general	Pa 243	I
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	Li 10	
SORT ORDER: Page, Line			

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2016 states that 'Information transmitted in an Organizationally Specific TLV shall be independent from information in a TLV received from a remote port.' so it isn't if request bits 88 to 90 can be supported.

SuggestedRemedy

Suggest that, assuming request bits can be supported:

[1] Figure 79-9 the 'PD measurements' field be renamed the 'Measurements' field and be increased to 13 octets.

[2] Figure 79-9 the 'PSE measurements' field be deleted.

[3] Subclause 79.3.8.1 text be changed to read ' The measured voltage value field carries a measured voltage value at the PI defined in Table 79–7b, the measured current value field carries a measured current value at the PI defined in Table 79–7b and the measured energy value field carries the measured energy consumption value at the PI defined in Table 79–7b.'.

[4] Table 79–7b 'PD measurements' be renamed 'Measurements' and be expanded to define 104 bits as follows:

104 Voltage support 103 Current support 102 Energy support 101:100 Measurement source 94:99 Reserved 93 Voltage measurement valid 92 Voltage request 91 Current measurement valid 90 Current request 89 Energy measurement valid 88 Energy request 87:0 Unchanged.

For bits 104:102 (were bits 95:93) remove 'PD' from description so for example '1 = PD supports voltage measurement' would become 1 = Supports voltage measurement'.

For bit 93 description reads:

- 1 = Request for voltage measurement
- 0 = No request for voltage measurement

For bit 92 description reads: 1 = Voltage measurement contains valid data 0 = Voltage measurement disabled

For bit 91 description reads: 1 = Request for current measurement

0 = No request for current measurement

For bit 90 description reads:

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

1 = Current measurement contains valid data

0 = Current measurement disabled

For bit 89 description reads: 1 = Request for energy measurement 0 = No request for energy measurement

For bit 88 description reads: 1 = Energy measurement contains valid data 0 = Energy measurement disabled

For bits 87:0 no change to the description.

[5] Delete subclause 79.3.8.2 'PSE measurements' including Table 79–7c 'PSE measurements'.

[6] Remove 'PD' from the TLV variable name and attribute names for PD Voltage support, PD Current support, PD Energy support, PD Measurement source, PD Voltage measurement, PD Voltage measurement, PD Current measurement and PD Energy measurement Rows in Table 79–9 and Table 79–10.

[7] Delete the rows for PSE Voltage support, PSE Current support, PSE Energy support, PSE Measurement source, PSE Voltage measurement, PSE Voltage measurement, PSE Current measurement and PSE Energy measurement from Table 79–9 and Table 79–10.

Proposed Response Response Status O

CI 79	SC 79.3.8.1	P 243	L 19	# 427
Yseboodt,	Lennart	Philips		
Comment The pa togeth	age split across	Comment Status X 79.3.8.1 is quite unfortu	-	the whole section
S <i>uggestea</i> Fight v	,	eep 79.3.8.1 together.		
Proposed	Response	Response Status)	

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	1 P 244 HPE	L 25	# 213	C/ 79 SC 7 9 Law, David	9.3.8.3	<i>P</i> 246 PE	L 45	# 214
Law, David Comment Type T	Comment Status X				E Comment Sta	. –		
)	efined as the 'Measurement so	urce' hits which '	Determine where the	Comment Type Typo.	E Comment Sta	ilus X		
measurement is to be	e taken.'. It however doesn't se	eem clear what th	ne setting 'Port total'	SuggestedRemedy				
voltage on each Alter	the 'Voltage measurement' sup mative summed, which seems or these bits as the maximum t	a bit odd to repo	ort, the result will likely		. index to the current valu	ue' should	l be changed to r	ead ' index of the
SuggestedRemedy				Proposed Respons	e Response Sta	tus O		
	of 'Port total' for the voltage me -7c.	asurement in 48	to 63 of both Table					
Proposed Response	Response Status O			CI 79 SC 79	9.4	P 247	L 11	# 215
				Law, David	Н	PE		
				Comment Type	T Comment Sta	ntus X		
79 SC 79.3.8.2 ones, Chad	2 <i>P</i> 246 Cisco	L 31	# 145		states that 'TLV selection ne means' and ' the			
				Clause 11 of IE	EE Std 802.1AB-2009) t	o'. Clause	e 11 of IEEE Std	802.1AB-2009 is
omment Type E	Comment Status X				LLDP MIB definitions', wi			
	e bits are 1 through 65000". T note alerting reader that yes we				use 10.2.2 is titled 'TLV			
imply you can operate		s know it s larger			Clause 11 was titled 'LLE Clause number between l			
uggestedRemedy				2008 wasn't tra			2.17 D 2000 and	
	after "Valid values for these bit	ts are 1 through 6	35000".	SuggestedRemedy				
Add Note 1 below tab	ble79-7c that says: "Maximum nge of Vport PD-2P."				tables (see Clause 11 c see Clause 10 of IEEE S			o' be changed to
allowed operating rar	.go of tpont_i b iii i			Proposed Respons	e Response Sta	tus O		
1 0	Response Status O			FTOPOSEU RESPONS				
roposed Response	Response Status O	L 44	# 428	Cl 79 SC 7		P 248	L 26	# 216
roposed Response	Response Status O	L 44	# 428		9.4.2	<i>P</i> 248 PE	L 26	# 216
Proposed Response	Response Status O	L 44	# 428	<i>Cl 79 SC 79 Law, David</i>	9.4.2	PE	L 26	# 216
Proposed Response 79 SC 79.3.8.3 Seboodt, Lennart Comment Type TR The power price index	Response Status O P 246 Philips Comment Status X x should get a reserved bit so			<i>Cl 79 SC 79 Law, David</i>	9.4.2 H	PE	L 26	# 216
roposed Response 79 SC 79.3.8.3 seboodt, Lennart omment Type TR The power price index meaning to the field a	Response Status O P 246 Philips Comment Status X x should get a reserved bit so at a later date.			Cl 79 SC 79 Law, David Comment Type	9.4.2 H E Comment Sta	PE	L 26	# 216
Troposed Response 779 SC 79.3.8.3 seboodt, Lennart Comment Type TR The power price inde: meaning to the field a Checked with Bruce 1	Response Status O P 246 Philips Comment Status X x should get a reserved bit so			CI 79 SC 7 9 Law, David Comment Type Typo. SuggestedRemedy	9.4.2 H E Comment Sta	PE htus X		
Proposed Response C/ 79 SC 79.3.8.3 (seboodt, Lennart Comment Type TR The power price inde: meaning to the field a Checked with Bruce I SuggestedRemedy	Response Status O Response Status O Part Part Status X A should get a reserved bit so at a later date. Nordman, he supports this.	that there is a ha	andle to assign defined	CI 79 SC 7 9 Law, David Comment Type Typo. SuggestedRemedy	9.4.2 E Comment Sta	PE htus X er pairx', see		
Proposed Response Cl 79 SC 79.3.8.3 Yseboodt, Lennart Comment Type TR The power price inde: meaning to the field a Checked with Bruce I SuggestedRemedy	Response Status O Response Status O Response Status O Philips Comment Status X x should get a reserved bit so at a later date. Nordman, he supports this. bit in the Power price index fiel e bit is zero.	that there is a ha	andle to assign defined	Cl 79 SC 7 Law, David Comment Type Typo. SuggestedRemedy PSE power pai	9.4.2 E Comment Sta	PE htus X er pairx', see		

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	248
Li	26

C/ 79 SC 79.4.2	P 248	L 26	# 217	C/ 79	SC 79.4.2	P 249	L 11	# 219
Law, David	HPE			Law, David		HPE		
Comment Type T	Comment Status X			Comment Typ	e TR	Comment Status X		
class which this Table is	attribute isn't in the LLDP Lo cross referencing, instead irs should be added to the	a new attribute		measuren and voltag	nents' and 'PSE ge fields contain	-10 as well as the associa measurements' bits 88:90 valid data.		
SuggestedRemedy				SuggestedRe	-			
				Suggest t	hat:			
Suggest that [1] The entry 'aPSEPow	erPairs' be changed to read	t 'al ldpXdot3l o	cPowerPairs'	[1] In Tab	le 79-9 add the f	ollowing three rows after t	the 'PD Energy su	pport' row:
	Xdot3LocPowerPairs be ac			PD Currei	nt measurement	valid aLldpXdot3LocPDV valid aLldpXdot3LocPDC valid aLldpXdot3LocPDEn	CurrentMeasValid	
				[2] In Tab	le 79-9 add the f	ollowing three rows after t	the 'PSE Energy s	upport' row:
C/ 79 SC 79.4.2 Law, David	P 248 HPE	L 32	# 218	PEE Curr	ent measuremer	nt valid aLldpXdot3LocPS nt valid aLldpXdot3LocPS t valid aLldpXdot3LocPSE	ECurrentMeasVal	id
Comment Type T The 'PD PI' field does no	Comment Status X ot exist in the Power Via ME	DI TLV.		[3] In Tab	le 79-10 add the	following three rows after	r the 'PD Energy s	upport' row:
aLldpXdot3RemPDPI fro the same as the bit orde	aLldpXdot3LocPDPI from T om 79-10. In addition since r as the bit definitions sugg and PD Load aLldpXdot3Re	the remainder of jest that the rows	f these table entries are s for PD Load	PD Currei PD Powei	nt measurement	valid aLldpXdot3RemPD valid aLldpXdot3RemPD valid aLldpXdot3RemPDE following three rows after	CurrentMeasValid inergyMeasValid	
Proposed Response	Response Status O			PSE Curr	ent measuremer	nt valid aLldpXdot3RemP3 nt valid aLldpXdot3RemP3 t valid aLldpXdot3RemPS	SECurrentMeasVa	alid
				subclause	e 30.12.2.1 'LLDI	Power via MDI Measurem P Local System Group att (dot3LocPDMeasEnergyS	ributes' add the fo	
				aLldpXdot	t3LocPDVoltage t3LocPDCurrent t3LocPDEnergyI	MeasValid		
				subclause	30.12.2.1 'LLDI	Power via MDI Measurem P Local System Group att (dot3LocPSEMeasEnerg)	ributes' add the fo	
					t3LocPSEVoltag t3LocPSECurrer			
TYPE: TR/technical required COMMENT STATUS: D/disp SORT ORDER: Page, Line	•	- ·		0	/unsatisfied Z/w	Pa 2 4 vithdrawn Li 1 1	-	Page 95 of 101 12/19/2016 11:30:

aLldpXdot3LocPSEEnergyMeasValid

[7] In Table 30-7 in LLDP Power via MDI Measurement Local Package (conditional) and subclause 30.12.3.1 'LLDP Remote System Group attributes' add the following new attributes after 30.12.3.1.18n aLldpXdot3RemPDMeasEnergySupport:

aLldpXdot3RemPDVoltageMeasValid aLldpXdot3RemPDCurrentMeasValid aLldpXdot3RemPDEnergyMeasValid

[8] In Table 30-7 in LLDP Power via MDI Measurement Local Package (conditional) and subclause 30.12.3.1 'LLDP Remote System Group attributes' add the following new attributes after 30.12.3.1.18u aLldpXdot3RemPSEMeasEnergySupport:

aLldpXdot3RemPSEVoltageMeasValid aLldpXdot3RemPSECurrentMeasValid aLldpXdot3RemPSEEnergyMeasValid

NOTE 1: If the comment to optimise the measurement TLV is accepted the above should be implemented with 'PD' removed from the odd numbered items and the even numbered items not implemented.

NOTE 2: This comment relates to TDL D2.1 #124

Proposed Response	Response Status	ο
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<i>CI 79 Law, Davi</i>	SC 79.5.1 d	<i>P</i> 250 HPE	L 23	# 220
<i>Comment</i> Typo.	51	Comment Status X		
Suggester PSE p		I read 'PSE power pairx', see	subclause 79.3	3.2.6a.1.

Proposed Response Re

Response Status 0

CI 79	SC 79.5.1	P 250	L 23	# 221
Law, David		HPE		
Comment	Туре Е	Comment Status X		
Туро.				
Suggested	Remedy			
	dot3RemPowe 3.1.18a.	erPairs should read aLldpXdo	t3RemPowerPairs	x, see subclause
Proposed I	Response	Response Status O		
CI 79	SC 79.5.1	P 250	L 40	# 222
Law, David		HPE		
Comment	Туре Т	Comment Status X		
The 'P	D Mode selecti	on' field does not exist in the	Power Via MDI TL	_V.
The 'Pl Suggested		on' field does not exist in the	Power Via MDI TL	_V.
Suggested Remov Also re	Remedy ve the PD Mode move subclaus	on' field does not exist in the e selection aLldpXdot3RemP se 30.12.2.1.18c aLldpXdot3I deSelection entry from Table	DModeSelection r	ow from Table 79-10.
Suggested Remov Also re	Remedy ve the PD Mode move subclaus dot3LocPDMo	e selection aLldpXdot3RemP se 30.12.2.1.18c aLldpXdot3I	DModeSelection r	ow from Table 79-10.
Suggested Remov Also re aLldpX	Remedy ve the PD Mode move subclaus dot3LocPDMo	e selection aLldpXdot3RemP se 30.12.2.1.18c aLldpXdot3l deSelection entry from Table	DModeSelection r	ow from Table 79-10.
Suggested Remov Also re aLldpX	Remedy ve the PD Mode move subclaus dot3LocPDMo	e selection aLldpXdot3RemP se 30.12.2.1.18c aLldpXdot3l deSelection entry from Table	DModeSelection r	ow from Table 79-10.
Suggested Remov Also re aLldpX Proposed I	Remedy re the PD Mode move subclaus dot3LocPDMo Response SC 79.5.1	e selection aLldpXdot3RemP se 30.12.2.1.18c aLldpXdot3I deSelection entry from Table <i>Response Status</i> O	DModeSelection r _ocPDModeSelect 30-7.	ow from Table 79-10. ion and the
Suggested Remov Also re aLldpX Proposed I Cl 79	Remedy re the PD Mode move subclaus dot3LocPDMod Response SC 79.5.1	e selection aLldpXdot3RemP se 30.12.2.1.18c aLldpXdot3l deSelection entry from Table <i>Response Status</i> 0 <i>P</i> 251	DModeSelection r _ocPDModeSelect 30-7.	ow from Table 79-10. ion and the
Suggested Remov Also re aLldpX Proposed I Cl 79 Law, David Comment There	Remedy re the PD Mode move subclaus dot3LocPDMo Response SC 79.5.1 Type E are two entries	e selection aLldpXdot3RemP se 30.12.2.1.18c aLldpXdot3I deSelection entry from Table <i>Response Status</i> O <i>P</i> 251 HPE	DModeSelection r LocPDModeSelect 30-7. <i>L</i> 29 ent'	ow from Table 79-10. ion and the
Suggested Remov Also re aLldpX Proposed I Cl 79 Law, David Comment There	Remedy re the PD Mode move subclaus idot3LocPDMo Response SC 79.5.1 Type E are two entries idot3RemPSEN	e selection aLldpXdot3RemP se 30.12.2.1.18c aLldpXdot3I deSelection entry from Table <i>Response Status</i> O <i>P</i> 251 HPE <i>Comment Status</i> X for 'PSE Voltage measurement	DModeSelection r LocPDModeSelect 30-7. <i>L</i> 29 ent'	ow from Table 79-10. ion and the
Suggested Remov Also re aLldpX Proposed I Cl 79 Law, David Comment T There a aLldpX Suggested Delete	Remedy re the PD Mode move subclaus dot3LocPDMo Response SC 79.5.1 Type E are two entries dot3RemPSEN Remedy the second en	e selection aLldpXdot3RemP se 30.12.2.1.18c aLldpXdot3I deSelection entry from Table <i>Response Status</i> O <i>P</i> 251 HPE <i>Comment Status</i> X for 'PSE Voltage measurement	DModeSelection r _ocPDModeSelect 30-7. <i>L</i> 29 ent' e 79-10.	ow from Table 79-10. ion and the

Pa **251** Li **29**

<i>Cl</i> 79 SC 79.5 . Law, David	1 <i>P</i> 251 HPE	L 34	# 158	C/ 33A SC 33A.1 Yseboodt, Lennart	P 257 Philips	L 31	# 420
Comment Type E	Comment Status X Power price index' aLldpXdot3Re	emPSEPowerPr	iceIndex is missing	Comment Type T Text in 33A.1 uses no le	Comment Status X ess than 3 variants of the SA	ME variable nar	me.
SuggestedRemedy Add the entry for F 10.	SE Power price index' aLldpXdot	3RemPSEPowe	PriceIndex to Table 79-	SuggestedRemedy Replace "Zser", "Zo_ser Proposed Response	r" by "Z_ser" in the text on p <i>Response Status</i> 0	age 257 and Fig	jure 33A-1
Proposed Response	Response Status 0						
<i>Cl</i> 79 <i>SC</i> 79.5 . Anslow, Pete	8 <i>P</i> 254 Ciena	L 53	# 22	C/ 33A SC 33A.1 Yseboodt, Lennart Comment Type ER	P 259 Philips Comment Status X	L 24	# 421
Comment Type ER	Comment Status X			"See Figure 33A-2 for th	ne test setup and Figure 33A	-3 for the test re	equirements."
The structure of th clause.	e PICS section of Clause 79 show	uld follow the str	ucture of the main	This is a resubmit of the	D2.1 comment, here in cas	e it doesn`t get	addressed in January
SuggestedRemedy				Where do I begin ?			
Item: *PM				There is no text at all the 33A-3, describes "test re	Imber of issues. they are not used, nor descr at tells what to do with it. equirements". But is just a fi but no values anywhere.		
				SuggestedRemedy			
	gh PVT36 to a new PICS subclat 2016 and rename them to be PM				nd Figures 33A-2 and 33A-3		
PM:M in the Status				Proposed Response	Response Status O		
Proposed Response	Response Status O	L 12	# 108	C/ 33A SC 33A.2 Stewart, Heath	P 259 Linear Techn	L 39 blogy	# 281
Darshan, Yair	Mirosemi		" 100	Comment Type E	Comment Status X		
Comment Type T TDL #275 and #27 Clarify 33A.1 and 3	Comment Status X 6 D2.1 33A.2 per the comments in D2.1.			Awkward wording SuggestedRemedy			
SuggestedRemedy				Change The access to the PD in	put power supply		
	0117.pdf for proposed remedy.			to Access to the PD input	power supply		
See Daishan_04_				i lococo lo line i D input			

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 Pa 259

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 Li 39

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 Pa
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C/ 33A SC 33A.3 Stewart, Heath	P 260 Linear Techno	L 3 logy	# 282	Cl 33A SC 33A Darshan, Yair	5 <i>P</i> 260 Mirosemi	L 50	# 111
Comment Type E Needs more clarity	Comment Status X	0,			SE connected to any PD will m		
to Operation for all PSE a	and PD Types requires that the and PD Types requires that the is of resistance unbalance to in <i>Response Status</i> O	e intra pair res	istance unbalance be	 (1) (U*Rpse_min Rpair_pd_max)=0 Where U=(1+E2E We can see that I following: (2) Rpse_max = U Rpair_pd_max) Which is actually 	P2PRunb)/(1-E2EP2PRunb) PSE PI output common mode e I*Rpse_min + (U*Rch_min - Rc dentical to Equation 33-15 in th E must meet this equations in a	ch_max) +(U*Rpa ffective resistanc h_max) + (U*Rpa te spec.	air_pd_min - e, need to meet the air_pd_min -
connectors), connected SuggestedRemedy	P 260 Mirosemi Comment Status X ode resistance is the resistance d in parallel." Doesn't belong h de resistance is the resistance d in parallel." Response Status O	nere. Delete it.		 b) PSE has to be to support all PDs c) And when conr represent channe So far, all is good The question is if Discussion: We said already t (1) (U*Rpse_min Rpair_pd_max)=C As a result, PD PI (3) Rpair_pd_max) Rch_max) 	ected to Rload_min and Rload + worst case PD, it needs to m the above is covered by D2.2. the same concept should apply nat both PSE and PD must con Rpse_max) +(U*Rch_min - Rc input common mode effective = U*Rpair_pd_min +(U*Rpse_	ich is defined by o _max (also derive heet Icon-2P_unb to the PD. hply with Equation h_max) +(U*Rpa resistance need t min - Rpse_max)	n 1 above: ir_pd_min - o meet the following: +(U*Rch_min -
connectors), connecter for both Rch_max and SuggestedRemedy Move the text "Commo (including connectors), is the sum" without id	on mode resistance is the resistance is the resistance is the resistance is the resist of the resist of the resistence in parallel."	eparate line wit stance of the the eparate line be	hout ident as it applies	Now; we know for and PD meets un Currently it is not in the spec while In other words, we 2P_unb by definit connected to Rso above. Otherwise pair current unbal SuggestedRemedy	dentical to Equation 33A-4 in the sure that if PD meets Equation balance requirements including clear that measuring only lcon- meeting Equation 33A-4 is just a need to be sure (by mathemation on meets Equation 33A-4 (Rpa surce_min and Rsource_max whe we need to move Equation 33 ance.	33A-4 than syste Icon-2P_unb. 2P_unb in the PD guidelines and no ical proof) that PI ir_PD_min and R ich is also derive A-4 to 33.3.8.10 t	em equation is solved b is sufficient as currently a must. D that meets Icon- pair_PD_max) when d from Equation 1 hat addresses PD pair to

TYPE: TR/technical required ER/edito	orial required GR/generation	al required T/technical E/editori	al G/general		Pa	260
COMMENT STATUS: D/dispatched A SORT ORDER: Page, Line	A/accepted R/rejected	RESPONSE STATUS: O/open	W/written C/closed U	l/unsatisfied Z/withdrawn	Li	50

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C/ 33A SC 33A.5							
Darshan, Yair	P 261 Mirosemi	<i>L</i> 1	# 112	C/ 33A SC 33A.5 Yseboodt, Lennart	P 261 Philips	L 44	# 423
Comment Type TR TDL #44 D2.2	Comment Status X			Comment Type E	Comment Status X	ators	
	and β in the equation RPair_P	D max = $\alpha \times R$	Pair_PD_min + β		e proper spacing around opera	ators.	
ensure that ICon-2P- Table 33–26."	unb is not exceeded for PD pov	wer consumptio	n above the values in	SuggestedRemedy Fix.			
It will help to the desident extended power as w	gner to have the equations and vell.	constants for c	class 6 and 8 for	Proposed Response	Response Status O		
To add to the spec th above text according	ne equations for extended powe ly.	r for class 6 an	d 8 and modify the	C/ 33B SC 33B.1 Picard, Jean	P 264 Texas Instrun	L 8 nents	# 237
SuggestedRemedy				Comment Type TR	Comment Status X		
Adopt darshan_03_0 Proposed Response	117.pdf Response Status O			Same RPSE_min and	RPSE_max terminology is us ling since they will in fact be very		
Toposed Nesponse				SuggestedRemedy			
C/ 33 SC 33A.5 Yseboodt, Lennart Comment Type E	P 261 Philips Comment Status X	L 7	# 417	necessarily the same	t identifier for each (positive of	_	
difference of pairs wit	connected in parallel including th the same polarity (e.g. Vf1-V measured voltage V ef"			Proposed Response	Response Status 0		
difference of pairs wit resistance R n is the	th the same polarity (e.g. Vf1-V			C/ 33B SC 33B.5	P 268	L 4	# 23
difference of pairs wit resistance R n is the Missing space betwee	th the same polarity (e.g. Vf1-V measured voltage V ef"					L 4	# 23
difference of pairs wit resistance R n is the Missing space betwee SuggestedRemedy Fix.	th the same polarity (e.g. Vf1-V measured voltage V ef" en the two sentences.			Cl 33B SC 33B.5 Anslow, Pete Comment Type E	P 268	L 4	# 23
difference of pairs wit resistance R n is the Missing space betwee SuggestedRemedy Fix. Proposed Response	th the same polarity (e.g. Vf1-V measured voltage V ef" en the two sentences. <i>Response Status</i> 0	f3).The commo	n mode effective	Cl 33B SC 33B.5 Anslow, Pete Comment Type E	P 268 Ciena Comment Status X	L 4	# 23
difference of pairs wit resistance R n is the Missing space betwee SuggestedRemedy Fix. Proposed Response	th the same polarity (e.g. Vf1-V measured voltage V ef" en the two sentences.			Cl 33B SC 33B.5 Anslow, Pete Comment Type E The headings under 3 SuggestedRemedy	P 268 Ciena Comment Status X	L 4	# <u>23</u>
difference of pairs wit resistance R n is the Missing space betwee SuggestedRemedy Fix. Proposed Response CI 33A SC 33A.5 Yseboodt, Lennart	th the same polarity (e.g. Vf1-V measured voltage V ef" en the two sentences. <i>Response Status</i> 0 <i>P</i> 261 Philips <i>Comment Status</i> X	f3).The commo	n mode effective	Cl 33B SC 33B.5 Anslow, Pete Comment Type E The headings under 3 SuggestedRemedy Fix the headings	P 268 Ciena <i>Comment Status</i> X 3B.5 are missing the "33"	L 4	# 23
difference of pairs wit resistance R n is the Missing space betwee SuggestedRemedy Fix. Proposed Response CI 33A SC 33A.5 Yseboodt, Lennart Comment Type E Vef-f_pd_n is split at SuggestedRemedy - Tell Frame not to hy	th the same polarity (e.g. Vf1-V measured voltage V ef" een the two sentences. <i>Response Status</i> 0 <i>P</i> 261 Philips <i>Comment Status</i> X the end of the line.	f3).The commo	n mode effective	Cl 33B SC 33B.5 Anslow, Pete Comment Type E The headings under 3 SuggestedRemedy Fix the headings	P 268 Ciena <i>Comment Status</i> X 3B.5 are missing the "33"	L 4	# <u>23</u>

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 **268** Li **4**

Cl 33B SC 33B.5.3 Anslow, Pete	P 269 Ciena	L 6	# 24	C/ 33C SC 33C.1.1 Yseboodt, Lennart	P 272 Philips	L 5	# 424
Comment Type E	Comment Status X			Comment Type T	Comment Status X		
subclause column sho Also, in the value colu SuggestedRemedy	nn for A33B1, "33B" should be ould be cross-references. mn, each cell has an entry tha nn for A33B1, change "33B" to cross-references.	at should be a ci	ross-reference.	Probably to make clea	ing time parameters like Tpon ar that these timings can be dif . That is already clear from the	ferent between	the Primary and
	mn, fix the four entries that sh	ould be cross-re	eferences.	this. Avoid use of non-	existing parameters.	0	, ,
Proposed Response	Response Status 0			SuggestedRemedy			
				Remove "_pri" and "_s	sec" from timing parameters in	those Figures.	
C/ 33C SC 33C	P 271	L 6	# 25	Proposed Response	Response Status O		
Anslow, Pete	Ciena						
Comment Type E	Comment Status X			C/ 33 SC 33C.1.1	P 272	L 11	# 227
	on page 263, line 1 says "Ins			Lukacs, Miklos	Silicon Labs		
	" so there is no need for an ed	diting instruction	here.	Comment Type ER	Comment Status X		
SuggestedRemedy	3C after Annex 33B as follow	c-"		The "Tpon_sec" label	is missing from the arrow in Fi	gure 33C-2.	
Proposed Response	Response Status 0	3.		SuggestedRemedy			
r roposed nesponse				Add "Tpon_sec" label.			
				Proposed Response	Response Status O		
C/ 33 SC 33C.1.1	P 271 Philips	L 20	# 418				
Yseboodt, Lennart	Comment Status X			C/ 33 SC 33C.2	P 272	L 20	# 229
Comment Type E	e connection check is dual the	alternatives ar	e controlled by the semi-	Lukacs, Miklos	Silicon Labs		
independent dual-sign Need comma after "du	ature state machine."			Comment Type ER Calling T_CLE1 here i	Comment Status X		
SuggestedRemedy				SuggestedRemedy			
				Replace T_CLE1 with	T_PDC.		
Add comma.							

Pa **272** Li **20**

C/ 33 SC 33C.1.1	P 272	L 25	# 228	CIA SCA	P 279	L9	# 435
Lukacs, Miklos	Silicon Labs			Zimmerman, George	CME C	onsulting, Aqua	
Comment Type ER	Comment Status X			Comment Type E	Comment Status	K	
	subscripts are missing from To Figure 33C-9 and Figure 33C-		rrow labels in Figure	Add the 2017 versio	n of the national electrical	code to the Bibliogra	aphy of IEEE Std 802.3
-	Figure 550-9 and Figure 550-			SuggestedRemedy			
SuggestedRemedy	subscripts to the Tdet and Tpc	n labels in Fig	Ire 33C-3 Figure 33C-		w pattern of bibliography , National Electrical Code		Std 802.3-2015: [Bxx]
6, Figure 33C-9 and Fi			ile 350 3, 1 igule 350	Proposed Response	Response Status	. ,	
Proposed Response	Response Status 0			Proposed Response	Response Status)	
C/ 33C SC 33C.1.2	P 272	L 38	# 236				
Picard, Jean	Texas Instrum	ents					
Comment Type T	Comment Status X						
	ect, it should show that both ch lass 0-4, the second channel of						
same time. In fact, if cl of inrush period. SuggestedRemedy	lass 0-4, the second channel o						
same time. In fact, if cl of inrush period. SuggestedRemedy							
same time. In fact, if cl of inrush period. SuggestedRemedy Use the diagram of Pic Proposed Response Cl 33 SC 33C.3	card_01_0316.pdf, slide 4 <i>Response Status</i> O						
same time. In fact, if cl of inrush period. SuggestedRemedy Use the diagram of Pic Proposed Response Cl 33 SC 33C.3 Yseboodt, Lennart	card_01_0316.pdf, slide 4 <i>Response Status</i> 0 <i>P</i> 277 Philips	does not have t	o turn ON until the end				
same time. In fact, if cl of inrush period. SuggestedRemedy Use the diagram of Pic Proposed Response Cl 33 SC 33C.3 Yseboodt, Lennart Comment Type E "PD to maintain class s event"	card_01_0316.pdf, slide 4 Response Status 0 P 277 Philips Comment Status X signature '0' if it requests Auto	does not have t	o turn ON until the end # 419				
same time. In fact, if cl of inrush period. SuggestedRemedy Use the diagram of Pic Proposed Response Cl 33 SC 33C.3 Yseboodt, Lennart Comment Type E "PD to maintain class s event" fur is misspelled, shou	card_01_0316.pdf, slide 4 Response Status 0 P 277 Philips Comment Status X signature '0' if it requests Auto	does not have t	o turn ON until the end # 419				
same time. In fact, if cl of inrush period. SuggestedRemedy Use the diagram of Pic Proposed Response Cl 33 SC 33C.3 Yseboodt, Lennart Comment Type E "PD to maintain class s event" fur is misspelled, shou SuggestedRemedy	card_01_0316.pdf, slide 4 Response Status 0 P 277 Philips Comment Status X signature '0' if it requests Auto	does not have t	o turn ON until the end # 419 uration of the class				

Pa **279** Li **9**