C/00 SC 0	Р	L	# 162	C/ 00 SC 0	P 1	L 1	# 99		
Stover, David	Linear Technolo	ogy		Jones, Chad	Cisco				
Comment Type TR	Comment Status X		Pres: Paul1	Comment Type T	Comment Status X		Pres: Jones 1		
TDL D2.0 #513 - Syste	em Unbalance Requirements				vious that when numeric value				
SuggestedRemedy				management objects no need to state that	s, binary encoding is used. It is	s pervasive acros	s the standard. There is		
See paul_01_1116.pdf			no need to state that. What is needed is a description of what is			being trasmitted by the bits.			
Proposed Response	Response Status W				address my TDL items from				
WFP				SuggestedRemedy					
TFTD				see jones_01_1116.	pdf for a complete list of locati	ions and remedies	6.		
C/00 SC 0	P 0	L 30	# 124	Proposed Response	Response Status W				
Schindler, Fred	Seen Simply, C	isco, T		WFP					
Comment Type ER	Comment Status X		LLDP	TFTD					
managed object class System Group manage	3 Organizationally Specific TLV cross references' lists a numbe ed object class attribute' colume in Clause 30, Table 30-4 "DTE (30.9.1).	er of new attribu	ites in the 'LLDP Local via MDI' TLV that						
SuggestedRemedy									
	er expert (not the commentor) to to complete the called out sec		and provide the						
Add row with column v "PSE Basic Package (alues, aPSEPowerPairsx, ATT mandatory)".	RIBUTE, GET-	SET, X in column						
Proposed Response	Response Status W								
TFTD									

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

C/ 1 SC 1.4 Yseboodt, Lennart	P 20 Philips	L 15	# 170	C/ 1 Stover, Da	SC 1.4	ļ	P 20 Linear Tech	L 43	# 157
	Comment Status D		Definitions	,		-	Comment Status D	inology	Definitions
- 1.4.415 Type Physical Layer classificat - 1.4.416 Type Clause 33). - 1.4.417 Type Layer classification, unde classification (see IEEE 8	for Type 1/2 PSE/PD in th 1 PD: A PD that does not tion (see IEEE 802.3, Clau 1 PSE: A PSE that support 2 PD: A PD that provides erstands 2-Event classifica	provide a Class 4 use 33). orts only a Type 1 a Class 4 signatu ation, and is capal	4 signature during PD (see IEEE 802.3, ure during Physical ble of Data Link Layer	Type 4 Suggestea Chang "A PD Multipl To: "A PD Multipl	IPD does. PD does. IRemedy ge: that reque le-Event cl that reque le-Event cl	e 3 PE . Howe ests Cl assific ests Cl assific	ass 1 to Class 6 during Phy ation, and accepts power of ass 1 to Class 6 during Phy ation, and accepts power of ass 1 to Class 6 during Phy ation, is capable of Data Li simultaneously."	both Type 3 and T ysical Layer classi on both Modes sin ysical Layer classi	ýpe 4 PDs. fication, implements nultaneously." fication, implements
These definitions don't align well with our Type 3 and Type 4 definitions. SuggestedRemedy				Proposed	Response		Response Status W		
				PROP	OSED RE	JECT			
Proposed revision: - Type 1 PD: A PD that requests Class 0 to Class 3 during Physical Layer classification. - Type 1 PSE: A PSE that supports up to Class 3 power levels and provides power over 2-pair. - Type 2 PD: A PD that requests Class 4 during Physical Layer classification,		previo TFTD	usly and de	ecidec	Ds are not required to support I to leave it out of the definit rejected		this discussion		
	Classification and Data Lir A PSE that supports up to			CI 30 Darshan, Y	SC 30 7air		P 24 Microsemi	<i>L</i> 1	# 53
Proposed Response	Response Status W			Comment	Type T	R	Comment Status X		Management
	PROPOSED ACCEPT IN PRINCIPLE. Implement suggest remedy but add the references to IEEE 802.3, Clause 33 to each						be added to this section. Th D2.0)	is include Autocla	•
TFTD CJ:				lf not r	esolved ye	et for D	02.1, add it to the TDL for the	ne next draft.	
cause confusion. Though	PD leaves overlap with th I'm struggling with what t			Proposed TFTD	Response		Response Status W		
	is says "up to". Best to sta at supports no more than C						ssing based on this commo it as TFTD, please be read		
	s Type1 and Type2 vs. Typ luded in the definition of T								
TYPE: TR/technical required	ER/editorial required GR	/general required					Pa	24	Page 2 of 53

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 **24** Li **1** Page 2 of 53 11/6/2016 10:34:55 AM

C/ 00 SC 0	P 24	L 30	# 125	C/ 30	SC 30.12.3	.1.18aa	P 44	L 44	# 8
Schindler, Fred	Seen Simply	, Cisco, T		Anslow, Pe	te		Ciena		
Comment Type TR	Comment Status X		Pres: Schindler1	Comment	Type ER	Comme	nt Status D		Edito
managed object cla	302.3 Organizationally Specific T ass cross references' lists a num naged object class attribute' colu complete.	ber of new attrib	outes in the 'LLDP Local	http://w "The c	/ww.ieee802.o haracter ".z" is	rg/3/WG_tool	es not conform w s/editorial/require .z1", ".z2", and s	ements/words.htm	l#numb
SuggestedRemedy				Suggested	-	on chonge "	20 12 2 1 19a th	ough 20 10 2 1 10	a" to "20.10.2.1.10a
	dler_01_1116 provides a marked	d up Clause 30 v	vith proposed solutions.		n 30.12.3.1.18		30.12.3.1.16a (ni	ougn 30.12.3.1.10	3g" to "30.12.3.1.18a
Proposed Response	Response Status W	·			oer 30.12.3.1.1 3.1.18z4	8aa through	30.12.3.1.18ad t	o be 30.12.3.1.18z	1 through
WFP				Proposed I	Response	Respons	e Status W		
TFTD				PROP	OSED ACCEP	T IN PRINCI	PLE.		
C/ 30 SC 30.12		L 50	# 52	OBE b	y 172				
Darshan, Yair	Microsemi			TFTD	LY:				
(See comment #49 SuggestedRemedy	werType" There is no value for T 00 in D2.0) for D2.1, add it to the TDL for the <i>Response Status</i> W			J	e to ACCEPT				
TFTD									
Do we have a reso	lution?								
Cl 33 SC 33.3. Darshan, Yair	1 <i>P</i> 43 Microsemi	L	# 63						
Comment Type T (TDL #171)	Comment Status X	isite for the num	Pres: Darshan15						
in the standard and	bout addressing the significant d d try to be satisfied with 3 signific ons result and not cause system	ant digits unless							
SuggestedRemedy									
Adopt darshan_15	_1116.pdf if available. If not avai	lable keep this i	n the TDL.						
Proposed Response	Response Status W								
WFP	-								
TFTD									

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

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

CI 33	SC 33.1.3	P 53	L 20	# 9
Anslow, F	Pete	Ciena		
Comment	t Type TR	Comment Status X		Pres: Jones1

1.2.6 says: "Unless otherwise stated, numerical limits in this standard are to be taken as exact, with the number of significant digits and trailing zeros having no significance." This means that a parameter maximum of 0.1 has exactly the same meaning as a maximum of 0.100.

The new text in 33.1.3 says "Leading and trailing zeros have significance".

A leading zero would be 0100 rather than 100. As far as I can see, the only leading zeros in the draft are in front of the decimal point for numbers less than 1 (as per the IEEE style manual). What significance do these leading zeros have?

There are many trailing zeros in the draft, for example the Channel pairset maximum DC loop resistance for Type 1 is "20.0" ohms. Following 1.2.6, this would be a limit of exactly 20 ohms. 33.1.3 says that the single trailing zero has significance, but it is entirely unclear what significance it has. Does it mean that a resistance of 20.049 is compliant? (This was the assumption that some people were making that led to the introduction of 1.2.6.) If the answer is that no value above 20 ohms is compliant, then 33.1.3 should not state that trailing zeros have significance and all trailing zeros should be removed from Clause 33. If the answer is that the trailing zero modifies the limit away from exactly 20 ohms, then 33.1.3 has to be modified to state what the significance of the trailing zeros is. In summary: either remove trailing zeros or if they are retained, state what they mean.

SuggestedRemedy

Either:

Remove the statement "Leading and trailing zeros have significance" from 33.1.3 and remove all trailing zeros from Clause 33 in the draft. Or:

Modify 33.1.3 to state what the significance of leading and trailing zeros is.

Proposed Response Response Status W

TFTD

WFP

CI 33	SC 33.1.4	P 53	L 51	# 4	7
Darshan, Yair		Microsemi		-	
Comment Typ	e ER	Comment Status X			Cabling

The note below Table 33-1:

"NOTE-In Type 3 and Type 4 operation, the current per pairset may be impacted by pair-topair system resistance unbalance. See 33.2.8.4.1. For additional information on Type 4 current unbalance, see TIA TSB-184-A and ISO/IEC TR 29125 Edition 2." The note below Table 33-1 need some clarification. It looks like that in 4-pair operation Icable can't be e.g. >0.6A.

SuggestedRemedv

Add the following text to 33.2.8.4.1 on page 120 after line 35:

"Icable in Table 33-1 is defined for 100% pair-to-pair balanced operation where the total 4pair current for Type 3 and Type 4 is 2xlcable. In Type 3 and Type 4 operation over 4-pairs. the current per pairset may be impacted by end to end pair-to-pair system resistance unbalance which may cause lcable on one of the pairs of the pairs with the same polarity to be higher per the limits of Icon-2P_unb in Table 33-19 while the other pair will get to value lower than lcable resulting with total 2xlcable over a single 4-pair cable."

Proposed Response Response Status W

TFTD

Should this be a new section somewhere? Should this go in Section 33.1.4?

Better text:

Add the following text to 33.2.8.4.1 on page 120 after line 35:

"Icable in Table 33-1 is defined for 100% pair-to-pair balanced operation where the total 4pair current for Type 3 and Type 4 is 2xlcable. In Type 3 and Type 4 operation over 4-pairs, the current per pairset may be impacted by end to end pair-to-pair system resistance unbalance which may cause lcable on one of the pairs of the pairs with the same polarity to be higher per the limits of Icon-2P unb in Table 33-19 while the other pair will be lower than lcable resulting with a total current of 2xlcable over a single 4-pair cable."

Pa 53 Li 51

C/ 33 SC 33 Yseboodt, Lennart	3.1.4.1	P 54 Philips	L 10	# 173	C/ 33 Yseboodt	SC 33.1.4	P 54 Philips	L 11	# 174
Comment Type	TR	Comment Status D		Cabl	ing Commen	t Type TR	Comment Status D		Editoria
We list a numb	er of key	v parameters and their desci	ription in this se	ction. Rch is missing.	"R CI	nan is the actual	DC loop resistance from the	PSE PI to the PE	OPI and back."
SuggestedRemedy							plains a couple paragraphs ba		resistance' is a term
		e the Rchan description: ghest DC pairset loop resist	ance		used	in the cable stan	dards, which doesn't match o	our numbers.	
		d value of Rch depends on		nd is defined in Table			to avoid using this term here ed to sync that to the Rchan-:		
Proposed Respons	е	Response Status W			Suggeste	dRemedy			
PROPOSED A	CCEPT.				"R CI	nan is the actual	resistance from the PSE PI to	o the PD PI and	back."
	imum ch	annel DC pairset loop resist	tance		back		nan-2P to: is the actual pairset resistan	ce from the PSE	PI to the PD PI and
TFTD FS: The comment is can be improved and is incomplete. This text may be better, "Rch is the maximum DC pairset loop resistance. The supported value of Rch depends on the RCF Time and is defined in Table 22.4."					I Response POSED ACCEPT	Response Status W			
	the PSE Type and is defined in Table 33-1." Scrap duplicate, less complete, definition on page 54 line 14.			reade minin	oving "DC loop" f er has already be num keep "DC" a	rom the definition makes the en warned that our definition Ind lose "loop". aange the Rchan-2P definition	deviates from ot	•	
					TFTD) YD:			

The problem is not clear. The wording that we currently have contain more information. So I'd like to keep it unchange.

Pa **54** Li **11**

arch the doc, Iport do	e removed from th 3. Vpd and Vpse n besn't make an ap es point to 33.2.8 been used nearly 3 5.1.3?	he definitions and now appear in 33.1.3 ppearance until 8.6, which is overload	import we ne The ca tempe Suggested Chang To: m Chang Proposed PROF TFTD	Type mbient t tant dist ed to be able rea erature v dRemed ge: maxi aximum ge also o Respon	inction that correct a with the he dy imum amb a ambient t on line 36	CommScope Comment Status D ure is not of the cable, but of at affects many users includi and consistent. teady state operating tempera- eat generated equal to the here bient operating temperature temperature and 37 below line 35 of pag Response Status W	the air surroun ng requlations ature that is hig eat dissipated. of the cable	and other standards, so gher than the ambient
t #6 against D2.0 whi t, Vpd and Vpse to be on, suggesting 33.1.3 arch the doc, Iport do This appearance doe red but after having b t not get added to 33 ort-2P) to 33.1.3. <i>ponse Status</i> W INCIPLE.	e removed from th 3. Vpd and Vpse n besn't make an ap es point to 33.2.8 been used nearly 3 5.1.3?	hlaf of maintenance he definitions and now appear in 33.1.3 ppearance until 3.6, which is overload	The a import we ne The c tempe Suggested Chang To: m Chang Proposed PROF	mbient t tant dist eed to be able rea erature v dRemed ge: maxi aximum ge also o Respon	temperatu inction tha e correct a nches a ste with the he dy imum amb n ambient t on line 36 ase	ure is not of the cable, but of at affects many users includi and consistent. teady state operating tempera- eat generated equal to the he bient operating temperature temperature 5 and 37 below line 35 of pag <i>Response Status</i> W	ng requlations ature that is hig eat dissipated. of the cable	nding the cable. This is an and other standards, so gher than the ambient
t, Vpd and Vpse to be on, suggesting 33.1.3 arch the doc, Iport do This appearance doo ned but after having b t not get added to 33 ort-2P) to 33.1.3. ponse Status W INCIPLE.	e removed from th 3. Vpd and Vpse n besn't make an ap es point to 33.2.8 been used nearly 3 5.1.3?	he definitions and now appear in 33.1.3 ppearance until 8.6, which is overload	import we ne The ca tempe Suggested Chang To: m Chang Proposed PROF TFTD	tant dist eed to be able rea erature v dRemeo ge: maxi aximum ge also o Respon POSED	inction that correct a with the he dy imum amb a ambient t on line 36 ase	at affects many users includi and consistent. teady state operating tempera- eat generated equal to the he bient operating temperature temperature 5 and 37 below line 35 of pag <i>Response Status</i> W	ng requlations ature that is hig eat dissipated. of the cable	and other standards, so gher than the ambient
ponse Status W INCIPLE. 1.4, suggest also to a			To: m Chang <i>Proposed</i> PROF TFTD	aximum ge also o <i>Respon</i> POSED o	ambient t on line 36 ase	temperature 6 and 37 below line 35 of pag <i>Response Status</i> W		
ponse Status W INCIPLE. 1.4, suggest also to a			Chanç <i>Proposed</i> PROF TFTD	ge also o <i>Respon</i> POSED /	on line 36 ase	and 37 below line 35 of pag Response Status ₩	e 54	
INCIPLE.			Proposed PROF TFTD	Respon POSED	ise	Response Status W	e 54	
			chang	-	aximum ar	Imbient temperature surround	ding the cable	
e share the definition ion for T1/2 PSE SM	to be inserted		"opera Chris	e are cha ating" ter DiMinico	mperature o during .3	legacy text. The term "opera e permitted by the cable prov 3at creation. This text was u ed operating ratings and curre	vider. The origination of the origination of the original tension of tensi	inal text was proposed by ystem installers to select
i). on 33.2.8.6, which is ed on a pairset by the		gh for 2P and 4P:	1. Per 2. Per	mit a 50 mit a ca	C reduction	achieve two things: on when half the conductors a ufacturer to have a higher ope		ature that benefits the
both pairs with the sa	ame polarity and i	is defined in Equation	l want	the text	t we adopt	ot to make it clear that a high	er operating ter	mperature allowance,
		ed on a pairset by the PSE to the PI,	ed on a pairset by the PSE to the PI, both pairs with the same polarity and is defined in Equation	Opera both pairs with the same polarity and is defined in Equation I want	both pairs with the same polarity and is defined in Equation I want the tex	both pairs with the same polarity and is defined in Equation I want the text we adopt	both pairs with the same polarity and is defined in Equation I want the text we adopt to make it clear that a high	Operating temperature – temperature rise = ambient temperature

Pa **54** Li **35**

3 SC 33.2.5.4 P 66 L 6 # 176 poodt, Lennart Philips pment Type ER Comment Status D PSE -	C/ 33 SC 33.2.5.7 P 72 L 24 # 112 Schindler, Fred Seen Simply, Cisco, T 112
ment Type ER Comment Status D PSE	
	Comment Type TR Comment Status D PSE
Legacy state diagram, variable error_condition, refers to wrong Figures: "These error conditions are different from those monitored by the state diagram In Figure 33-21, Figure 33-22, and Figure 33-23." gestedRemedy Change to: "These error conditions are different from those monitored by the state diagram In Figure 33-14." Mosed Response Response Status W PROPOSED ACCEPT. TFTD YD: Error in the remedy. It should be Figure 33-13.	Comment TypeTRComment StatusDPSEThe legacy state diagram (page 72) and the Type 3 and 4 state diagram (page 91) and the do not match for the behavior for the processing time of the tdbo_timer cover in text on page 105 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 Roper 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 all PSE types skip the BACKOF state when the signature is open_circuit while the text makes this behavior optional.SuggestedRemedyState diagrams overrides text. Change the text to match the state diagram behavior by replacing the called-out text with, "When a PSE that is performing detection using Alternative B (see 33.2.4) determines that the impedance at the PI is greater than Roper as defined in Table 33–12, it is recommend that Type 1 or Type 2 PSEs omitted the the tdbo_timer interval."Proposed ResponseResponse StatusWPROPOSED ACCEPT IN PRINCIPLE.This needs to be filed as a maintenance request for Type 1 and Type 2. However, I wou recommend updating the state diagram to make it optional since that was the intent and you won't make any PDs noncompliant by doing that.For Type 3 and 4, TFTDsome thoughts:add new 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.

Pa **72** Li **24**

C/ 33 SC 33.2.5.11 Darshan, Yair	P 75 Microsemi	L 11	# 54	C/ 33 Stover, Dav	SC 33.2.5.9 id	9 <i>P</i> 82 Linear Te	L 25 chnology	# 161
Comment Type TR The pd_autoclass term (See comment #503 in SuggestedRemedy	Comment Status X is never read by the state di D2.0)	agram.	PSE SD	Suggestedl	Table 33-7. T Remedy	Comment Status D ype 3 PSEs obviously can		
	2.1, add it to the TDL for the	next draft.		Change Proposed F		of "Type 3" and "class_num Response Status W	1_events_pri" fror	m "1, 2, 4" to "1, 2"
Proposed Response TFTD	Response Status W					T IN PRINCIPLE.		
C/ 33 SC 33.2.5.9 Yseboodt, Lennart	P 76 Philips	L 54	# 177	OBE by TFTD	178			
Comment Type ER	Comment Status D		PSE SD	C/ 33	SC 33.2.5.9	P 82	L 30	# 178
"These error in Figure 33-26." SuggestedRemedy Change to: "These error in Figure 33-21, Figure Proposed Response PROPOSED ACCEPT. TFTD YD:	able error_condition, refers to conditions are different from 33-22, and Figure 33-23." <i>Response Status</i> W hould be Figure 33-15, Figu	those monitore	d by the state diagrams d by the state diagrams gure 33-17.	anythin <i>SuggestedI</i> The pro	ype TR anges adopted For instanc g but Class 7 of <i>Remedy</i> posed remedy ail_power and Adopt yseb	Philips <i>Comment Status</i> X I last cycle that introduced e, according to Table 33-7 or 8. y is to simplify the classification no longer use class_num_ oodt_01_1116_simpleclas <i>Response Status</i> W	and 33-8, a Type 4 ation state diagram _events.	PSE cannot deliver
C/ 33 SC 33.2.5.9 Stover, David	P 77 Linear Techno	L 17 blogy	# 169	TFTD				
SuggestedRemedy Add "or this function is r Remove the assignmen Proposed Response PROPOSED ACCEPT. TFTD CB: cannot remove the assi	Comment Status D iclass_lim_det and _det_priv not active" to the end of the l it "iclass_lim_det <= FALSE" Response Status W gnment "iclass_lim_det <= F	FALSE value fo ' from global IDI FALSE" from glo	iclass_lim_det. E state. bal IDLE state, since it					

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

Pa **82** Li **30**

C/ 33 SC 33.2.5.9 P 82 L 46 # 17 Beia, Christian STMicroelectronics	C/ 33 SC 33.2.5.12 P 91 L 40 # 167 Stover, David Linear Technology
Comment Type E Comment Status D PSE SD These normative sentences are misplaced, since they have more general scope than just Type3 and Type4 Variables definition PSE SD	Comment Type TR Comment Status X PSE SD Some arcs point to "A", which used to be entry to global IDLE. Pointer has been changed to "IDLE" (is there an accepted comment associated with this change?) PSE SD
SuggestedRemedy move the following sentences to 33.2.7 as sixth paragraph (D2.1 page 106 line 18): Type 1 and Type 2 PSEs shall issue no more class events than the Class they are capable of supporting. 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 at VReset for at least TReset and a transition to any of the power up states.	SuggestedRemedy Replace pointers to "A" with pointers to "IDLE" (4 locations). Proposed Response Response Status W TFTD should it be IDLE or A??? This comment will be used to OBE all related comments. C/ 33 SC 33.2.5.12 P 93 L 6 # 20
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. TFTD where these sentences should go.	Beia, Christian STMicroelectronics Comment Type ER Comment Status D PSE SD Figure 33-16 The arc between ENTRY_PRI and IDLE_PRI states wasn't there in the original Visio file.
My suggestion: Page 110, line 15. (although Type 1 is out of place in multi-event) 2/ 33 SC 33.2.5.12 P 89 L 1 # 165 Atover, David Linear Technology Linear Technology Pres: Stover1 Comment Type TR Comment Status X Pres: Stover1 Some optional behaviors described in text are missing from PSE SD. SuggestedRemedy See stover_01_1116.pdf	SuggestedRemedy Remove the arc between ENTRY_PRI and IDLE_PRI states. Proposed Response Response Status W PROPOSED ACCEPT. TFTD That arc was not there, but was there for the SEC alternativewas there a reason for this?
Proposed Response Response Status W WFP TFTD	CI 33 SC 33.2.5.12 P 93 L 10 # 64 Darshan, Yair Microsemi Comment Type TR Comment Status X PSE SD Figure 33-16: The exit from IDLE_PRI to START_DETECT_PRI.
	We should be able to get to START_DETECT_PRI regardless if pwr_app_sec is TRUE or FALSE. SuggestedRemedy Delete "pwr_app_sec" from the condition "!pwr_app_pri * pwr_app_sec" Proposed Response Response Status W TFTD This path is only used by some sequences. For example, you can go from ENTRY_PRI to START_DETECT_PRI without this condition.

TYPE: TR/technical required ER/editorial required GR/gener	al required T/technical E/editorial G/general	Pa 93	Page 9 of 53
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	Li 10	11/6/2016 10:34:55 AM
SORT ORDER: Page, Line			

C/ 33 SC 33.2.5.12 P 93 L 10 # 168	C/ 33 SC 33.2.5.12 P 96 L 5 # 66			
Stover, David Linear Technology	Darshan, Yair Microsemi			
Comment Type T Comment Status D PSE SD	Comment Type TR Comment Status D PSE SL			
If iclass_lim_det_pri and _sec return "false" when do_classification_pri and _sec are "not active", then setting these variables to "false" in ENTRY_PRI and ENTRY_SEC is unnecessary.	Figure 33-17. Error in CLASS_EVAL_SEC state. Missing paranthesis in: "IF (pd_cls_4PID_sec * (sig_sec = valid) * (sig_pri = valid) + pwr_app_pri) THEN"			
SuggestedRemedy	(This error corrected for figure 33-16 for the primary side but not corrected in figure 33-17 in the secondary side)			
Remove assignment of "false" to iclass_lim_det_pri and _sec in ENTRY_PRI and ENTRY_SEC	SuggestedRemedy			
Proposed Response Response Status W PROPOSED ACCEPT.	Change from: IF (pd_cls_4PID_sec * (sig_sec = valid) * (sig_pri = valid) + pwr_app_pri) THEN To			
TFTD CB: Removing assignment of "false" to iclass_lim_det_pri and _sec in ENTRY_PRI and	IF (pd_cls_4PID_sec * (sig_sec = valid) * ((sig_pri = valid) + pwr_app_pri)) THEN:			
ENTRY_SEC the SM is stuck in IDLE_PRI or IDLE_SEC.	Proposed Response Response Status W			
C/ 33 SC 33.2.5.12 P 95 L 9 # 65	PROPOSED ACCEPT.			
Darshan, Yair Microsemi	TFTD HS:			
Comment Type TR Comment Status X PSE SD	The PRI construction and the suggested SEC construction makes class based 4PID mandatory (top level AND term).			
Figure 33-17: The exit from IDLE SEC to START DETECT SEC.	The parentheses in PRI makes 4PID option B impossible			
We should be able to get to START_DETECT_SEC regardless if pwr_app_pri is TRUE or FALSE.	"b) The PSE detects a valid detection signature on the unpowered pairset when power has been applied to a pairset."			
SuggestedRemedy	Also the detection check is not known to occur while the other alt is powered so it is not			
Delete "pwr_app_pri" from the condition "!pwr_app_sec * pwr_app_pri"	known if 4PID is valid via method B as the SM is built.			
Proposed Response Response Status W				
TFTD				
See 64				

Pa **96** Li **5**

C/ 33 SC 33.2.5.12	<i>P</i> 96	L 5	# 185	C/ 33		33.2.5.12	P 97	L 22	# 55
Yseboodt, Lennart	Philips			Darsha	n, yair		Microsemi		
Comment #21 this was forgotten ? EVAL_PRI: "If pwr_app_sec)) THEN" EVAL_SEC: "I pwr_app_pri) THEN" SuggestedRemedy Change the IF statemen "IF (pd_cls_4F	Comment Status D SS_EVAL_SEC does not 1 2 against D2.0, made char F (pd_cls_4PID_pri * (sig_p IF (pd_cls_4PID_sec * (sig t in CLASS_EVAL_SEC to PID_sec * (sig_sec = valid)	nges in _PRI, bu pri = valid) * ((sig g_sec = valid) * (s p read:	SS_EVAL_PRI. t not in _SEC. I ass I_sec = valid) + sig_pri = valid) +	sume Th cla wh Th Sugge Ac thi If r Propos	ss code by ch it need s is covere tedRemed d to figure 3 meeting. ot available ed Respon	e machine issuing 3 f to generate d by the te ly 33-18 the r e, keep this	Comment Status X , D2.0) part for single signature (f finger and then doing class e only one finger etc. is mi ext but not in the state mac missing state machine par s in the TDL. Response Status W	s reset due to lake ssing. hine.	e of sufficient power in
THEN" Proposed Response PROPOSED ACCEPT II	Response Status W		, , , , , , , , , , , , , , , , , , , ,	W TF <i>C</i> / 33	TD	33.2.5.12	P 99	L 21	# 111
See 66				Picard	Jean		Texas Instru	iments	
mandatory (top level AN The parentheses in _PR "b) The PSE detects a va been applied to a pairse Also the detection check	I makes 4PID option B imp alid detection signature on	bossible the unpowered le the other alt is	pairset when power	Th Sugge has Co ot Propos	tedRemed	ly diting to ave se	Comment Status D CLASS_EV3_SEC to K is oid the text overlapping ov Response Status W		
					TD CJ: ake it AIP a	and add Cl	ASS EV3 SEC to MARK	EV3 SEC exit	condition (it overlaps

"Make it AIP and add CLASS_EV3_SEC to MARK_EV3_SEC exit condition (it overlaps another transition line) and the C1 on pg 97, C2 on 98, and C3 on 99 to the list to clean up.

Also, whats going on with the kerning in some of these transitions? For example see temp_var_pri on pg 98, In 21. very compressed."

Pa **99** Li **21**

Cl 33 SC 33.5.12 P 101 L 8 # 188	C/ 33 SC 33.2.6 P 101 L 22 # 21
Yseboodt, Lennart Philips Comment Type T Comment Status X	Beia, Christian STMicroelectronics Comment Type T Comment Status D PSE Detection
"alt_pwrd_sec * !pwr_app_sec" in exit branch IDLE_INRUSH_SEC is not correct.	the transition between 2-pair and 4-pair power is possible only if the conditions defined in 33.2.8.1 are met
The inrush SD is stuck in IDLE_INRUSH this way.	SuggestedRemedy
SuggestedRemedy Change to "alt_pwrd_sec".	replace: When a PSE is already in POWER_ON, it is allowed to transition between 2-pair and 4-pair
Proposed Response Response Status W TFTD	power without redoing detection as described in 33.2.8.1. with:
See 187	When a PSE is already in POWER_ON, it may be allowed to transition between 2-pair and 4-pair power without redoing detection if the conditions described in 33.2.8.1 are met.
Cl 33 SC 33.5.12 P 101 L 8 # 187 Yseboodt, Lennart Philips	Proposed Response Response Status W PROPOSED REJECT.
Comment Type T Comment Status X PSE SD "alt_pwrd_pri * !pwr_app_pri" in exit branch IDLE_INRUSH_PRI is not correct.	33.2.8.1 explains when the transition is allowed or not. That is what this sentence is referring to (not the other operating conditions listed in 33.2.8.1).
The inrush SD is stuck in IDLE_INRUSH this way.	TFTD
SuggestedRemedy	Cl 33 SC 33.2.6.2 P 103 L 21 # 189
Change to "alt_pwrd_pri".	Yseboodt, Lennart Philips
Proposed Response Response Status W TFTD	Comment TypeTComment StatusDPSE Detection"The PSE shall not be damaged by up to 5 mA backdriven current over the range of V oc as specified in Table 33-10."
I don't understand how the SD is stuck. Alt_pwrd_pri says you are/will apply power while !pwr_app_pri says you are not yet at full operating current (POWER_ON). The only way to get stuck is if you go from IDLE to POWER ON without going through inrush, right?	Voc is not a range, it is a maximum.
See 188	SuggestedRemedy "The PSE shall not be damaged by up to 5 mA backdriven current up until a voltage of V oc as specified in Table 33-10."
	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
	TFTD
	Can't we just put "0" into the min column and leave the text as is. I don't like the suggested text.
	Or how about: "The PSE shall not be damaged by up to 5 mA backdriven current for any voltage less than or equal to V oc as specified in Table 33-10."
TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/ COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/w SORT ORDER: Page, Line	"The PSE shall not be damaged by up to 5 mA backdriven current for any voltage less than or equal to V oc as specified in Table 33-10." /general Pa 103 Page 12 of 53

C/ 33 SC 33.2.8 Darshan, Yair	P 104 Microsemi	L 49	# 51	C/ 33 SC 33.2.7 Yseboodt, Lennart	P 105 Philips	L 49	# 191
	Comment Status X 6.pdf for a proposal to address om comment #510 D2.0. 16.pdf	s TDL list regard	Pres: Darshan1 ding lunb=3%*(lpeak or	Serial comma. SuggestedRemedy	Comment Status D on allows Type 2, Type 3 or Ty on allows Type 2, Type 3, or T		
Proposed Response WFP TFTD	Response Status W			Proposed Response PROPOSED ACCEP	Response Status W		
<i>Cl</i> 33 <i>SC</i> 33.2.8.1 Darshan, Yair	P 105 Microsemi	L 32	# 56	commas every meetir TFTD	ng.		
	Comment Status X pairs and 4-pairs is not covered clude in the TDL for comment		PSE SD achine.	, , ,	one out just to announce that uying him at least one anyway		ennart a beer this
,	D2.1, add it to the TDL for the	next draft.			ng it out to announce the com t doesn't mean I love you less		cause Lennart will
Proposed Response TFTD	Response Status W						

Pa **105** Li **49**

C/ 33 SC 33.2.7 P106	L 9	# 114	C/ 33 SC 33.2.7	P 106	L 15	# 193
chindler, Fred Seen Simply, C	Cisco, T		Yseboodt, Lennart	Philips		
omment Type TR Comment Status D		PSE Class	Comment Type TR	Comment Status D		PSE Clas
The explanation, "The assigned Class is the result of number of class events produced by the PSE as sho is incomplete. DLL operations may alter the assigne <i>tuggestedRemedy</i> Replace the referenced sentence with, "The assigned requested Class and the number of class events pro- 33–13 and Table 33–14 or operations performed usin	wn in Table 33 d class, see Ta d Class is the r duced by the P	–13 and Table 33–14." able Table 33-25. esult of the PD's SE as shown in Table	output of the PSE is I supports at the PI. Ba power level supported Equation (33-3)."	ed Class to a single-signal P Class as shown in Equat ased on the assigned Class d for a pairset at the output peated 2 paragraphs later,	ion (33-2). P Class i s to a dual-signature of the PSE is P Cla	is the power the PSE PD, the minimum ass-2P as shown in
oposed Response Response Status W			SuggestedRemedy			
PROPOSED ACCEPT. TFTD LY: OK technically, but too much stuff in one sentence. Keep sentence as is, add new sentence after: "DLL o Class, see Table 33-25"	classification m	ay alter the assigned	level the PSE suppor	to a single-signature PD de ts at the PI, as defined in E is PClass-2P, defined per <i>Response Status</i> W	quation (33-2). For	a dual-signature, this
TFTD CJ: reject. This is the physical layer introductory text. Phy Don't confuse the reader. As Dave says, they need to later, while still is participe 23.2.7, they act that explore	o read the who		TFTD HS:	l be dual-signature PD		
later, while still in section 33.2.7, they get that explan			Cl 33 SC 33.2.7 Schindler, Fred	<i>P</i> 107 Seen Sim	L 1 ply, Cisco, T	# 115
ater, write sum in section 33.2.7, they get that explan			Schindler, Fred Comment Type TR Existing text, "If the P 33.3.6.3), the PSE m and the Type 3 and 4 pse_available_pwr, w	Seen Sim Comment Status X D connected to the PSE p ay set its minimum suppor PSE state diagram do not thich is used to determine to classification takes place	ply, Cisco, T erforms Autoclass (ted output power ba provide the behavio the power provided	Pres: Yseboodt see 33.2.7.3 and sed on PAutoclass," or that determines to the PD. Similarly I
			Schindler, Fred Comment Type TR Existing text, "If the P 33.3.6.3), the PSE m and the Type 3 and 4 pse_available_pwr, w do not see where aut	Seen Sim Comment Status X D connected to the PSE p ay set its minimum suppor PSE state diagram do not thich is used to determine to classification takes place	ply, Cisco, T erforms Autoclass (ted output power ba provide the behavio the power provided	Pres: Yseboodt see 33.2.7.3 and sed on PAutoclass," or that determines to the PD. Similarly I
aler, write suit in section 33.2.7, they get that explai			Schindler, Fred Comment Type TR Existing text, "If the P 33.3.6.3), the PSE m and the Type 3 and 4 pse_available_pwr, w do not see where aut PSEAllocatedPower\ SuggestedRemedy The subject matter exidetermining pse_ava value." The other mise	Seen Sim Comment Status X D connected to the PSE p ay set its minimum suppor PSE state diagram do not thich is used to determine to classification takes place	ply, Cisco, T erforms Autoclass (ted output power ba provide the behavio and how the system 0 comments 232, a nction do_autoclass completed to close	Pres: Yseboodt see 33.2.7.3 and sed on PAutoclass," or that determines to the PD. Similarly I n adjusts the adjusts the adjusts the sification to set this the D2.0 TDL
ater, wrine sum in section 33.2.7, they get that explain			Schindler, Fred Comment Type TR Existing text, "If the P 33.3.6.3), the PSE m and the Type 3 and 4 pse_available_pwr, w do not see where aut PSEAllocatedPower\ SuggestedRemedy The subject matter exi determining pse_ava value." The other mis comments. This com	Seen Sim Comment Status X D connected to the PSE p ay set its minimum suppor PSE state diagram do not hich is used to determine to classification takes place /alue. kpert (Lennart) tackling D2. ilable_pwr, by modifying fu ssing behavior will likely be	ply, Cisco, T erforms Autoclass (ted output power ba provide the behavio and how the system 0 comments 232, a nction do_autoclass completed to close	Pres: Yseboodt see 33.2.7.3 and sed on PAutoclass," or that determines to the PD. Similarly I n adjusts the adjusts the adjusts the sification to set this the D2.0 TDL

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 **107** Li **1** Page 14 of 53 11/6/2016 10:34:55 AM

33 SC 33.2.7 P 107 L 10 # 86 nes, Chad Cisco	C/ 33 SC 33.2.7 P 107 L 10 # 197 Yseboodt, Lennart Philips
mment Type TR Comment Status X PSE Class	Comment Type TR Comment Status X Pres: Yseboodt
Table 33-13. Rows 2 and 5 have the same criteria in the first two columns but different results in the third. This is truly two solutions for the same problem. If you are a class 4, you can look at row 2 or row 5, provide only one class even and then assign class 3 or class 0. I get that this is there for legacy Type 1 devices as they have to be allowed to assign Class 0. It just isn't very clear.	Table 33-13 is titled "Physical Layer power classifications for single-signature PDs (P Class)" Table 33-14 is title "Physical Layer power classification for dual-signature PDs (P Class-2P)"
ggestedRemedy Step one: move row 2 below row 5. Step 2: move the superscript 2 in column 4 to column three. This has a problem of making it look like 'zero squared', consider making just this cell say 'Class 0'	We never say which PSE Type needs to use which Table. Even if we did, it would suggest that Type 1/2 PSEs need to verify that the PD is single-signature, which they cannot do. SuggestedRemedy
Step 3: modify note 2 from "Only applies to Type 1 and Type 2 PSEs." to "Only applies to Type 1 and Type 2 PSEs. Type 3 and Type 4 PSEs that see PD requested class of 4 but stop after one PSE class event are required to assing class 3, whereas Type 1 and Type 2 PSEs assign class 0."	Proposed is to: - Make Table 33-13 and 33-14 into Type 3/4 PSE Tables - Create a new Table in the same style for Type 1/2
posed Response Response Status W	This also allows us to clean up some of the oddball cases around Class 0 from Table 33- 13.
TFTD	
Is there a difference between class 0 and class 3?	Adopt yseboodt_03_1116_pclasstable.pdf
	Proposed Response Response Status W WFP
	TFTD
	C/ 33 SC 33.2.7 P 108 L 10 # 88 Jones, Chad Cisco
	Comment Type ER Comment Status X PSE Clas
	I want it to be perfectly clear that the PD is required to advertise it's maximum class and cannot request more power via LLDP than was requested via Layer 1.
	SuggestedRemedy change: "Data Link Layer classification takes precedence over Physical Layer classification." to: "Data Link Layer classification takes precedence over Physical Layer classification but can never be more than requested over Physical Layer classification."
	Proposed Response Response Status W TFTD
	Should this be a shall? Is it covered somewhere else?

Pa **108** Li **10**

33	SC	33.2.7		P 108	L 11	# 116	C/ 33	SC	33.2.7	P 108		L 50	# 199
chindler,	Fred		S	Seen Simply,	Cisco, T		Yseboodt,	_ennar	t	Philips			
comment	Туре	TR	Comment St	atus X		PSE Class	Comment	Гуре	TR	Comment Status)		PSE Clas
the PE allow, layer of may h move level is uses a The re followi	D draws already classific ave its the pre- s limited all class equester ng solu	across a vagreed u ation at a budget in viously po d by what ification o d Class o tion beca	Il output voltage upon operational point within its t crease, due to a ower constrained the PD will requ events allowed. f a PD is not me	s and operation states where budget (page system power d PSE port to nest using phy easurable (page ed Class of a	onal modes." S a power limited 106, line 11). A r budget chang a higher power rsical layer class ge 149, Line 30 PD may not res	maximum power that hould be clarified to d PSE stops its physical later this point, the PSE ge, and use DLL to level. The upper power sification if the PSE	See m So far Any su - A PS provide - A PS - PSEs Suggested	otion 6 we hav ch requ E may E may may g Remed	: http://wv e not enc uirement be config have a po rant high	e Physical Layer classif ww.ieee802.org/3/bt/pub oded this in a text requ needs to take into acco ured to limit the Class of ower budget limit er power than the assig new paragraph in 33.2.7	iremer unt tha or num ned Cl	15/motions_and it. it: ber of class eve ass through DL	_straw_polls_0115.pdf
uggested							"A Turo	0 2 or ⁻		SE shall be capable of a	eciani	na tha hiabast (lass it can support by
Replac	ce the c	called out	sentence with,							er Classification."	issigili	ng the highest C	class it can support by
						oower that the PD is utilized. The	Add to	PICS					
Physic	al Laye	er classifi	cation value of th	ne PD by a PS	SE with no budg	et power budget	Proposed I		ise	Response Status V	v		
	ion is th tional m		um power that th	ne PD draws a	across all outpu	t voltages and	•	•		IN PRINCIPLE.	•		
roposed	Resnor	190	Response Sta	atus W			TFTD,	there a	are a lot o	f comments on this top	C.		
TFTD	кезры	130	Response Sid				C/ 33	SC	33.2.8.4. ⁻	I P 108		L 513	# 58
	0.1						Darshan, Y	air		Microse	mi		
TFTD I think		asking tl	nat a PD be allow	wed to negotia	ate for more po	wer if the result of MUID	Comment	Гуре	TR	Comment Status X	[Pres: Darshar
						E that is power budget			n flexibility	to PSE when Equation	n 33-15	5 is used at high	er than Vpse-2P_min
oversu	ubscribe	e the pow		efore we need	l a mechanism	to allow a PSE/PD present the proper		mmen		es stover_01_0916.pdf .pdf for proposed reme		comment #513 [02.0.
physic	al layer	r class - tl	hough the PSE v	won't be able	to confirm this.	Otherwise, you'd have	Suggested	_			,		
to repo	oot the	PD and t	nat isn't accepta	DIE. THIS IS GO	ing to take som	e real crafting of text.	00			.pdf for proposed reme	dy.		
No it d	Response DNA: No it doesn't. The PSE simply has to trust the PD. The PD has a requirement not to ask for more than its advertised class. Done.			equirement not to ask	Proposed I WFP	Respon	se	Response Status V	V				
							TFTD						

Pa **108** Li **513**

C/ 33 SC 33.2 Yseboodt, Lennart	7.2 <i>P</i> 110 Philips	L 8	# 202	CI 33 Schindler, Free	SC 33.2.7.2	P 110 L Seen Simply, Cisco,	13 # <u>117</u> T
Comment Type TF	Comment Status D		PSE Class	Comment Typ	e TR	Comment Status X	PSE Class
single-signature F	Il provide a maximum of four clas Ds and a maximum of three class nature PDs unless a class reset	s events and thr	ee mark events on each	identificati	on." does no	and Type 4 PSEs may issue a class r t provide details on what a class rese es not provide this behavior. Timing	et is or does. The Type 3 and 4
Two issues:				SuggestedRei	nedy		
- we also need to	support the reset statement for si worded is insufficiently precise	ngle-signature				PSE classification of a single signate	
	d of a dashed list will increase rea	adability (with ec	litorial license to decide	classificat	on to enter (pse_class_r	y appending, the sentence, "A class of CLASS_EV1_LCE." Add an entry intreset". On page 81 add the new defined the set of	o CLASS_EV1_LCE with the
SuggestedRemedy						ecific means of repeating classificatio	on, see 33.3.7.2.
"Type 3 PSEs							
signature PDs be	provide a maximum of four class ween a class reset and the applic provide a maximum of three clas	cation of power t	to the PD.			entry into PD classification (default). to PD classification."	
	ial-signature PDs between a clas			Add opera	tion "pse_cla	ass_reset <= FALSE" within state CL	ASS_EV1_LCE.
	provide a maximum of five class			Tpon requ		this ability should discuss the need to ne existing timing cannot be met (i.e. Ipon).	
	ween a class reset and the applic			Proposed Res	ponse	Response Status W	
	provide a maximum of four class nature PDs between a class res			TFTD			
•	PICS accordingly.				air is workin ot necessary	g on this. This solution provides an i ⁄.	mplementation specific solution
Proposed Response	Response Status W						
PROPOSED ACC							
TFTD HS: This does not do on.	vhat we want. It allows infinite ev	ents between, sa	ay, a detect and power				
Change (4x) between a class r	eset and the application of power	to the PD.					
To Unless a class re	et event clears the class and ma	rk event counts.					

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 **110** Li **13**

C/ 33 SC 33.2.7.2 P 110 L 13 # 89 Jones, Chad Cisco	C/ 33 SC 33.2.7.2 P 112 L 7 # 208 Yseboodt, Lennart Philips
Comment Type ER Comment Status D PSE Class	Comment Type TR Comment Status D PSE Class
the sentence: "Type 3 and Type 4 PSEs may issue a class reset event to perform mutual identification." leaves out the reason why one might do this.	Table 33-17, item 10, on T_pdc is listed only for Type 1. Single-event classification also exists for Type 2 PSEs.
SuggestedRemedy	SuggestedRemedy
add this sentence at the end of the paragraph (line 14): "This behavior is allowed because	Change Table 33-17, item 10, "PSE Type" from "1" to "1, 2"
it takes three class events to discover a DS PD. The PSE may have progressed to this point only having Type 1 power available and will need to reset and start classification over with the knowledge that they are probing a DS PD."	Proposed Response Response Status W PROPOSED REJECT.
Proposed Response Response Status W	Looking at the 2042 standard (AT), the Tride is only ellowed for Type 4. If a Type 2 DOC
PROPOSED ACCEPT IN PRINCIPLE.	Looking at the 2012 standard (AT), the Tpdc is only allowed for Type 1. If a Type 2 PSE does single-event, it still has to use TCLE1.
I am not crazy about adding extra sentences to explain the reasoning. It begins to sound like a tutorial.	TFTD
	C/ 33 SC 33.2.7.2 P112 L8 # 22
How about we change the actual sentence to something like this:	Beia, Christian STMicroelectronics
"Type 3 and Type 4 PSEs that require more class pulses for mutual identification than their power available allows may issue a class reset event after performing mutual identification."	Comment Type TR Comment Status D PSE Class Table 33-17 Single-Event Physical Layer classification timing specification also applies to Type2 PSEs
TFTD	SuggestedRemedy
C/ 33 SC 33.2.7.2 P 111 L 33 # 207 Yseboodt, Lennart Philips	Table 33-17 Item 10 Single-Event Physical Layer classification timing: Add "2" to column PSE Type
Comment Type T Comment Status D PSE Class	Proposed Response Response Status W
Table 33-17, item 1, Vclass.	PROPOSED REJECT.
SuggestedRemedy	See 208
Add a footnote to parameter name "VClass" which states: "It is recommended to use a higher Vclass for the third class event. This will facilitate debugging using a scope."	TFTD
Proposed Response Response Status W	
PROPOSED REJECT.	
Huh? Why are we putting this in the standard?	
TFTD	

Pa **112** Li 8

PSE Class

PSE Class

C/ 33 SC 33.2.7.		L 13	# 23	CI 33		33.2.7.3	P 112	L 36	# 210
Beia, Christian	STMicroelect	ronics		Yseboodt, I	Lennar	t	Philips		
comment Type TR	Comment Status D		Pres: Darshan8	Comment 7	Гуре	TR	Comment Status D		Autoclas
Table 33-17 Tcle1 spec only appl	ies to Type2 PSEs			"If the F classifi	PSE im cation,	plements the PSE s	Autoclass and the connecte shall measure P Autoclass."	d PD requests A	Autoclass during
SuggestedRemedy					The	do autor	lassification function returns	variable nd aut	oclass that describes
Table 33-17 Item 12 Remove "3,4" from c				the abo	ove cas	e	attached to my name that sa	• -	
Proposed Response	Response Status W			somew	here.		·	-	
PROPOSED ACCEF	РТ.				D2.	0 TDL #38	38		
WFP				Suggested	Remea	'y			
	and then class reset, the 1st c irst class event after reset hav df.			suppor classifi	"If t ts Auto cation.	class, and	e pd_autoclass has the value I the PD has requested Auto all measure P_Autoclass wh	class during Ph	ysical Layer
SC 33.2.7.		L 36	# 90		Upo	late PICS	PSE80		
ones, Chad	Cisco			Proposed F	Respon	se	Response Status W		
Comment Type ER	Comment Status X		Autoclass	PROPO	OSED /	ACCEPT	N PRINCIPLE.		
during classification,	PSE implements Autoclass an " is missing pointers to help the						is what you were going for o n the autoclass_enabled va		
SuggestedRemedy									, , , , , , , , , , , , , , , , , , ,
	E implements Autoclass and th (see 33.3.6.3 and CLASS_EV1			TFTD					
Proposed Response	Response Status W			Replac		ed text by:		it reaches the F	
TFTD				variable			measure P_Autoclass when bled has the value 'True', ind		
See 210 (probably O	BE)			Autocla	ass, an of 'True'	d the do_a	autoclassification function re- g the PD has requested Auto	turned the varial	ble pd_autoclass with a
					Upo	late PICS	PSE80		

Pa **112** Li **36**

/ 33 SC 33.2.8 P 113 L 38 # 212 seboodt, Lennart Philips	C/ 33 SC 33.2.8 P 113 L 40 # 46 Darshan, Yair Microsemi
omment Type ER Comment Status D Editorial Table 33-19, item 2, parameter V_Port_PSE_diff is described as: "Output voltage pair-to-pair difference of pairs with the same polarity in the Editorial POWER_ON state". Has value 10mV. Has value 10mV. Editorial	Comment TypeTComment StatusXPres: Darshan7Table 33-19 item 2, VPort_PSE_diff.1. It is not clear if it is total 10mV or +/-10mV which is 20mV. (It is total 10mV regardless of the direction).2. It will be helpful to show where it is measured and its location.
According to that description, the PSE can have 10mV of difference between the positive pairs, and another 10mV in the negative, resulting in a total V_PSE to V_PSE voltage diff of 20mV. I checked with Yair and this is technically correct, we don't need to change the definition or the the number. However - too much information is presented in the Table 33-19, spread over a parameter name and additional information. <i>uggestedRemedy</i> Do the following: - Change the parameter name of item 2 to "Output voltage pair-to-pair difference" - Change Additional information to "See 33.2.8.1a" - Create a new subsection after 33.2.8.1 titled "Output voltage pair-to-pair difference" - With content: "VPort_PSE_diff is the maximum voltage difference between the pairs with the	SuggestedRemedy 1. In the additional information column for VPort_PSE_diff change the text to: "Open load voltage, when operating over 4-pair. See Figure 33B-2. 2. In the parameter name, modify the text to be: "Output voltage pair-to-pair **total voltage** difference of pairs with the same polarity in the POWER_ON state" 3. In Figure 33B-2, add VPort_PSE_diff label and arrow between the labels of the lines with "i1" and "i2". See darshan_07_1116.pdf Figure 33B-2 for reference. 4. In Figure 33B-2, add VPort_PSE_diff label and arrow between the labels of the lines with "i3" and "i4". See darshan_07_1116.pdf Figure 33B-2 for reference. Proposed Response Response Status W WFP TFTD
same polarity, at no load condition, when operating over 4-pair, in the POWER_ON state." roposed Response Response Status W PROPOSED ACCEPT. TFTD HS:	Cl 33 SC 33.2.8 P 114 L 1 # 213 Yseboodt, Lennart Philips Editorial Comment Type ER Comment Status D Editorial Table 33-19 has several parameter that depend on Class. We use inconsistent wording in the description to point this out. Editorial
This is better as a note than a new section. Also it should say "power on" instead of "POWER_ON".	SuggestedRemedy Use the construction " per the assigned Class" for item 5, 6, 7, 11, 12, 18, and 19. Proposed Response Response Status W PROPOSED ACCEPT. TFTD CB: I prefer "as function of the assigned Class" TFTD YD: "I prefer to keep the wording as it has today to have controll on each item. Item 11 ILIM-2P is not per the assigned class!. Regarding Item 6 and 7 linrush and linrush-2P I have doubdts and I would like to discuss it."

Pa **114** Li **1**

Cl 33 SC 33.2.8 P 114 L 16 # 80 Darshan, Yair Microsemi	C/ 33 SC 33.2.8 P 114 L 30 # 81
Comment Type TR Comment Status D PSE Inrush	Comment Type TR Comment Status D PSE Inrush
 Table 33-19, item 6, "Total output current of both pairsets of the same polarity in the POWER_UP state as function of assigned Class". The "assigned class" is irrelevant here due to the fact that the PD advertised class contain the information of the PD capability to consume linrush and not the assigned class. Example 1: PSE Type 4 that detect single-signature class 8 need to supply the Inrush current that suitable to class 8 due to the fact that if the assigned class in this case will be e.g. 6, it doesn't change the PD inrush circuitry (including its capacitance)and it remains class 8 for Inrush matters. Example 2: A Type 4 SS PD connected to Type 2 PSE. In this case regardless of the PD inrush needs, The PSE can supply only 0.4A to 0.45A. So the PD may or may not work due to linrush and also due to not sufficient power so it is not important if it is the assigned class or the advertised class. 	 Table 33-19, item 7, "Output current per pairset in the POWER_UP state as function of the assigned Class". The "assigned class" is irrelevant here due to the fact that the PD advertised class contain the information of the PD capability to consume linrush-2P and not the assigned class. Example 1: PSE Type 4 that detect single-signature class 8 need to supply the Inrush current that suitable to class 8 due to the fact that if the assigned class in this case will be e.g. 6, it doesn't change the PD inrush circuitry (including its capacitance)and it remains class 8 for Inrush matters. Example 2: A Type 4 SS PD connected to Type 2 PSE. In this case regardless of the PD inrush needs, The PSE can supply only 0.4A to 0.45A. So the PD may or may not work due to linrush and also due to not sufficient power so it is not important if it is the assigned class or the advertised class.
 SuggestedRemedy 1. Change to: "Total output current of both pairsets of the same polarity in the POWER_UP state". OR 2. Group to find good technical arguments why to keep it as it is and review case by case i.e. for each PSE class and Type. 	 Change to: "Output current per pairset in the POWER_UP state." OR Group to find good technical arguments why to keep it as it is and review case by case i.e. for each PSE class and Type. Proposed Response Response Status W
Proposed Response Response Status W	PROPOSED REJECT.
PROPOSED REJECT. This would require lower power PSEs to support the inrush demands of a high power PD.	TFTD See 80.
TFTD	

Pa **114** Li **30**

C/ 33 SC 33.2.8 Yseboodt, Lennart	P 114 Philips	L 44	# 215	C/ 33 SC 33.2.8 Stover, David	P 116 L 37 Linear Technology	# 164
Comment Type TR Table 33-19, Item 9, I_C	Comment Status D Cut-2P.		PSE Power	Comment Type T TDL D2.0 #510 - Intra	Comment Status D	Pres: Darshan
How is it specified right ICut-2P min is Icon-2P = ICut-2P max is ILIM-2P ILIM-2P in itself is a ran- upperbound template fo Also, ICut-2P is "optiona Verdict: convoluted, inco How often is Icut-2P use defined, once more in 3 SuggestedRemedy - Remove Item 9 from T - Replace in 33.2.8.6: "If I Port-2P, the current	=> this makes perfect sense for Type 1/2 PSEs and not s ge, with Class dependent nu r the maximum. al" but is in a normative Tabl omprehensible specification ed in the draft ? Precisely TV 3.2.8.6.	specified for Ty mbers for the r e with associat for a simple co VICE. Once in	pe 3/4 PSEs. minimum, and the PSE ed shall. Incept. the Table where it is	comments. Proposed Response PROPOSED ACCEP TFTD LY: I bet there is a darsha TFTD YD:		; reference 33.2.8.4 in
longer than T CUT-2P , Proposed Response PROPOSED ACCEPT. TFTD	t supplied on a pairset by th the PSE may remove powe <i>Response Status</i> W	from that pairs	set."			
C/ 33 SC 33.2.8 Yseboodt, Lennart	P 116 Philips	L 8	# 216			
Comment Type E	Comment Status D on for PSE 1,2 in item 18 Iho	ld-2P for PSE	<i>Editorial</i> Type 1 and 2.			
SuggestedRemedy add: "Class 0 to 4"						
Proposed Response PROPOSED ACCEPT.	Response Status W					
	E will use Ihold-2P as descril for this item should be "Any		ine of item 18 for any			

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 **116** Li **37**

Fditorial

CI 33	SC 33.2.8.2	P 117	L 30	#	92
Jones, Chac	I	Cisco			

Comment Type E Comment Status D Edi the note need punctiation to make it easier to read: "NOTE—The occurrence of voltage transients lasting more than 250 µs or voltage steps of significant amplitude (within the VPort_PSE-2P specification) should be limited to rare circumstances such as those involving switchover of backup power supplies to ensure system robustness or those involving significant change in current demand on the PSE power supply due to a large load step spread over multiple powered ports."

SuggestedRemedy

change to: "NOTE—The occurrence of voltage transients lasting more than 250 µs or voltage steps of significant amplitude (within the VPort_PSE-2P specification) should be limited to rare circumstances such as: those involving switchover of backup power supplies to ensure system robustness or, those involving significant change in current demand on the PSE power supply due to a large load step spread over multiple powered ports."

Proposed Response	Response Status	Ζ	
PROPOSED REJECT.			

This comment was WITHDRAWN by the commenter.

Here is the first result from google:

Colons. 1. Do not use a colon in a complete sentence after phrases such as "such as," "including," and "for example." Because phrases like these already indicate to the reader that a list of examples will follow, there is no need to introduce them with a colon, which would merely be redundant.

Also, you added a comma between a list of two things (I know I love serial commas, but you need 3 things in a list).

TFTD

C/ 33	SC 33.2.8.4	P 118	L 43	# 217
Wendt, M	latthias	Philips		

Comment Type TR Comment Status X

"I Peak-2P-unb is the minimum current due to unbalance effects that a PSE must support on a pairset as defined by Equation (33-11)."

Only applies when 4-pair powering a single-signature PD. Also 'must support' is not appropriate.

SuggestedRemedy

"I Peak-2P-unb is the minimum current due to unbalance effects that a PSE supports on a pairset, as defined by Equation (33-11), when powering a single-signature PD over 4-pair."

Proposed Response Response Status W

This section needs some work. This sentence says that the minimum current on a pairset is I Peak-2P-unb, but equation 33-14 says that it is actually the minimum of that value and I Peak - I Port-2p-other.

Why is Equation 33-14 introduced before equation 33-10?

Shouldn't this section introduce equation 33-14 first (make it equation 33-10) and then everything that follows is an explanation of those values?

I may try to rewrite this section before the meeting. Please talk to me (Dave A.) before working on it.

TFTD

C/ 33 SC 33.2.8.4		33.2.8.4	P 118	L 43	# 218
Yseboodt	, Lenna	rt	Philips		
Comment	t Type	TR	Comment Status X		PSE Unbalance

"I Peak is the total current of both pairs with the same polarity that a PSE supports."

Only applies when 2-pair powering or 4-pair powering a single-signature PD.

SuggestedRemedy

"I Peak is the total current of both pairs with the same polarity that a PSE supports, as defined in Equation 33-10, when powering either in 2-pair, or 4-pair powering a single-signature PD."

Pa 118

Li 43

Proposed Response Response Status W

See 217

PSF Unbalance

C/ 33 SC 33.2.	3.4	P 119	L 50	# 75	Cl 33	SC	33.2.8.4.1		P 120	L 13	# 7	'1
Darshan, Yair	Mi	crosemi			Darshan, `	Yair		Ν	licrosemi		-	
Comment Type TR	Comment Stat	tus D		Pres: Darshan14	Comment	Туре	TR	Comment Sta	atus X		Pr	es: Darshan
darshan_16_0916F approved in Septer (See http://www.ie Please see darsha	.0 suggested remedy Rev003.pdf was not ir nber 2016 meeting. ee802.org/3/bt/public/ n_14_1116.pdf which ges for the Table/Equa	mplemented /sep16/darsl is identical	as presented, nan_16_0916R to the one that	discussed and ev003.pdf)	septer 1. Res 33B-1 See u 2. Upo 3. Upo	nber 20 solving to rem pdates dating 3	016. TDL for col ove repetiti to PSE-PD 03B.4 to cla igure 33B-2	mment #78 D2. ion. See comm	0 (Yair to alig ent 78 in D2. uirements in	darshan_07_11	bove and be	
	/www.ieee802.org/3/h	t/nublic/sen	16/darshan 16	_0916Rev003.pdf with	Suggested	Reme	dy					
	ng actions to sync wit				Addop	ot darsh	an_07_11	16.pdf.				
Implement darsh	an_14_1116.pdf whic	ch do the ed	iting work (prefe	erred).	Proposed	Respor	nse	Response Sta	atus W			
Proposed Response	Response State	us W			WFP	•						
PROPOSED ACCE	EPT.											
TFTD LY:					TFTD							
	"approved" presentat	ion, darshar	16_0916. Tha	at presentation was not	CI 33	SC	33.2.8.4.1		P 120	L 21	# 5	7
adopted. Let's look at darsha	n 14 1116				Darshan, `	Yair		Ν	licrosemi			
	<u></u> 10.				Comment	Туре	TR	Comment Sta	atus X		Pr	es: Darshan
TFTD CB: it is not clear which TFTD HS: WFP.	it is not clear which remedy has been implemented TFTD HS:				Accura This c accura	acy of E ommer acy of e	nt addresse equation 33	3-15 at short ca s stover_01_09 -15 at short cab odf for proposed	916.pdf from bles.	comment #513	D2.0 regard	ing the
					Suggested	Reme	dv.		-			
					00			odf for proposed	d remedy.			
					Proposed	Respor	nse	Response Sta	atus W			
					, WFP	,						
					TFTD							
					IFID							

Pa **120** Li **21**

C/ 33 SC 33.2.8.7 P 123 L 45 # 220 Yseboodt, Lennart Philips	C/ 33 SC 3.2.8.7 P 123 L 45 # 76 Darshan, Yair Microsemi
Comment Type TR Comment Status D PSE Power ILIM_min is defined here in Equation 33-17 as Ipeak_max + 4mA. Ipeak_max however, does not exist, we only have a reference in the "where" part saying to use the "maximum value of Ipeak from Equation 33-10". It is not obvious what this maximum value really is. SuggestedRemedy It will be more clear to calculate ILIM_min and put that in Table 33-19. - Add a new item to Table 33-19, after item 11 (I_LIM-2P) Parameter: "Output current - at short circuit condition, when operating in 4-pair mode, when connected to a single-signature PD, as function of the Class assigned to the PD" Symbol: I_LIM Unit: A	Comment Type E Comment Status D Editoria "The total current at ILIM-2P min operating point during TLIM-2P min is ILIM_min is defined by Equation (33–17)." Missing "and". SuggestedRemedy Change to: "The total current at ILIM-2P min operating point during TLIM-2P min is ILIM_min and is defined by Equation (33–17)." Proposed Response Response Status W PROPOSED ACCEPT. TFTD LY: Should be OBE to #220 Status W
Min: PSE Type: Class 0-4 L_LIM-2P 3,4 Class 5 0.958 3,4 Class 6 1.278 3,4 Class 7 1.539 4 Class 7 1.539 4 Class 8 1.856 4 Max: (empty) Additional information: See 33.2.8.7 - Remove page 123, lines 45-54 Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Implement suggested remedy with following change: Parameter: "Output current - at short circuit condition, when operating in 4-pair mode and connected to a single-signature PD, as function of the Class assigned to the PD" TFTD YD: "Due to the fact that ILIM-2P is just a data point in Figure 33-28 and Figure 33-29 and has no use for protection (we have to have ILIM-2P per per set), it is better to remove ILIM_min data point from Figure 33-28 and Figure 33-17."	OBE to #220 Cl 33 SC 33.2.8.11 P 126 L 30 # 77 Darshan, Yair Microsemi Comment Type TR Comment Status X Pres: Darshan1 (TDL #510 D2.0) "NOTE-For practical implementations, it is recommended that Type 1 PSEs support Type 2, 3, 4 lunb requirements." This is incorrect. For practical implementations it is recommended that Type 1 PSEs support Type 2 and not Type 3 and 4 as well. For Type 3 and 4, lunb=0.03*lpeak-2P_unb. There is no technical reason that Type PSEs magnetics will have to be designed to work with Type 3 and Type 4 lunb which can be 3 times higher. Ibias for any class is Ibias=lunb/2=0.03*lport/2 when working over 2-pairs. When working over 4-pairs, Ibias=lunb/2=lpeak-2P_unb*0.03/2and Ipeak-2P_unb for Type 4 is almost 3 times than what is required for Type 1. SuggestedRemedy Adopt Darshan_01_1116.pdf Proposed Response Response Status W WFP TFTD

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Page, Line Pa **126** Li **30**

C/ 33 SC 33.2.8.11 Yseboodt, Lennart	P 126 Philips	L 30	# 222	<i>CI</i> 33 Stewart, H	SC 33.3.1 eath	P 131 Linear Tech	L 1 Inology	# 150
Comment Type T	Comment Status D		Pres: Darshan1	Comment	Type TR	Comment Status X		PD Types
2, 3, 4 l unb requireme					single-signatur	Ds must be able to operate of PDs above class 4 and du		
	at I_unb requirements for Typ "Type 2,3,4" is not the way t			Suggestee	Remedy			
SuggestedRemedy	1990 2,0,1 10 101 110 110			Chang	,			
Change to:	practical implementations, it	is recommende	d that Type 1 PSEs			with a power demand lower Mode A column and the PD		
support Type 2 I_unb r	equirements."			to				
Proposed Response PROPOSED ACCEPT	Response Status W				hall be able to o 33–21.	operate per the PD Mode A of	column and the P	D Mode B column in
TFTD YD:				Proposed	Response	Response Status W		
	1116.pdf that coveres this su	oject.			rstand both the /hat to do with t	comment and why the origin his one.	nal text is the way	/ it is…Thus I am not
				TFTD				
				Full or	iginal text:			
				signat opera PDs n	ure PDs with a te per the PD M	emented to be insensitive to power demand lower or equ ode A column and the PD M g supplied over Mode A and evel.	al to Class 4 pow lode B column in	er shall be able to Table 33–21. All other
					•	lement only Mode A or Mode e sensitive to polarity are sp	•	5
				C/ 33 Jones, Ch	SC 33.3.1	P 131 Cisco	L 11	# 98
				Comment		Comment Status X		PD Powe
				"The F perma	PD shall withsta ment damage."	nd any voltage from 0 V to 5 we know this sentence had the suggested remedy.		efinitely without
				Suggestee	Remedy			
				chang	e to: The PD sh	all withstand any voltage fro able 33-4 at the PI indefinite		
				Proposed	Response	Response Status W		
				TFTD				
	ed ER/editorial required GR						131	

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Pa 131
 Page 26 of 53

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 Li
 11
 11/6/2016 10:34:56 AM

 SORT ORDER: Page, Line
 Sort Order Page, Line
 Page 26 of 53
 11/6/2016 10:34:56 AM

C/ 33SC 33.3.2P 132L 3# 151Stewart, HeathLinear Technology	C/ 33 SC 33.3.2 P 132 L 26 # 103 Jones, Chad Cisco					
Comment Type TR Comment Status D Type 1 and 2 PDs cannot be constructed as dual-signature PDs. This is out of scope of our work as a Task Force. See Table 33-22. SuggestedRemedy SuggestedRemedy Change lines PDs can be constructed as single-signature or dual-signature as defined in 1.4 and 33.3.5.	Comment Type ER Comment Status D PD Power We must hate the end users of our document because we have made one of the most unreadable specs I have ever seen (only further cements that we messed up by not making this it's own clause, but I digress). Here we introduce the concept of Type 1-4 and Class 0-8 but no where do we tell them what that means in terms of power - which I think is one of the main things a person will want to know when they are looking at specs for a POWERed device. This information doesn't come until page 151. At least be nice and tell					
to Type 3 and Type 4 PDs can be constructed as single-signature or dual-signature as defined in 1.4 and 33.3.5. or PDs can be constructed as single-signature or dual-signature as defined in 1.4 and 33.3.5 and shown in Table 33-22.	them to look ahead to Table 33-27 and 33-28 to give the rest of the explanation. SuggestedRemedy after Table 33-22 or at the end of 33.3.2 add a new pargraph: For more information about the allowed PD power for each Type and Class see Table 33-27 and Table 33-28. Proposed Response Response Status W PROPOSED REJECT.					
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Change to: PDs can be constructed as single-signature or dual-signature as defined in 1.4 and 33.3.5 and shown in Table 33-22.	If we adopt this methodology we will be left with a document that is completely swamped out by cross references. Readers need to read the entire document! Making it easy for them to cherry pick certain information without understanding the whole spec will only lead to more problems.					
TFTD CB: the remedy does not help to clarify that Type 1 and Type 2 PDs cannot be constructed as dual-signature PDs. Table 33-22 doesn't say that. We should add this info in Table 33-22 maybe?	TFTD CJ: I only added cross references where I thought it was helpful to the poor reader of our doc. In actuallity I am saying this section should be restructured to tell a better story from beginning to end but that is too much work. So the minimum effort is to give a pointer.					

Response DNA: Type 1 and 2 can be constructed as dual-signature (I can build a compliant DS Type 1 PD). It is just never addressed by the standard and that is how we

are leaving it.

Pa **132** Li **26**

C/ 33 SC 33.3.3.3 Stewart, Heath	P 133 Linear Technolog	L 23 V	# 153	<i>Cl</i> 33 <i>SC</i> 33.3.3 . Beia, Christian	5 P 136 L 5 STMicroelectronics	# 24
Comment Type E Cor	nment Status D		Maintenance	Comment Type T	Comment Status D	PD Class
Use of a dash is non-traditiona viable in most programming la SuggestedRemedy	al in a variable name. Reu			NOTE 2—In general signature for any DO 33–31:	, there is no requirement for a PD to respon- _CLASS_EVENT duration less than TClass e, so it should be replaced with its max value	d with a valid classification 5_PD as defined in Table
Change (globally) pd_2-event to pd_2_event Proposed Response Resp	oonse Status W				ows: , there is no requirement for a PD to respond _CLASS_EVENT duration less than TClass	
PROPOSED REJECT.				Proposed Response PROPOSED REJEC	Response Status W	
This is the Type 1, 2 State Dia are filed as maintenance requ	0	ng it unless comm	nents against it		a max value, so it is not a range.	
TFTD LY: An MR is required to make teo name of the state, which is no state name in all of 802.3 with	on-technical. The argumen		0	TFTD CB: I understand TClass since it is clearer.	_PD is not a range but I would prefer using	TClass_PD max anyway,

Accept the comment.

Response DNA:

Fine with me, I was only trying to save our friendly neighborhood editor some work.

Pa **136** Li **5**

C/ 33 SC 33.3.3.7 P 138 L 4 # 139 Stewart, Heath Linear Technology Linear Technology	C/ 33 SC 33.3.3.7 P 138 L 24 # 140 Stewart, Heath Linear Technology Linear Technology Linear Technology Linear Technology					
Comment Type T Comment Status D PD SD present_det_sign value description references to over each pairset are inconsistent. SuggestedRemedy Change invalid:A non-valid PD detection signature is to be applied to the link. valid:A valid PD detection signature is to be applied to the link over each pairset. either: Either a valid or non-valid PD detection signature is to be applied to the link over each pairset. to invalid:A non-valid PD detection signature is to be applied to the link over each pairset. valid:A non-valid PD detection signature is to be applied to the link over each pairset. valid:A valid PD detection signature is to be applied to the link over each pairset. valid:A valid PD detection signature is to be applied to the link over each pairset. valid:A valid PD detection signature is to be applied to the link over each pairset. either: Either a valid or non-valid PD detection signature may be applied to the link.	Comment Type E Comment Status X Pres: Stewart1 pse_dll_power_type A control variable output by the PD power control state diagram, defined in Figure 33–49, that indicates the PSE Type as 1 or 2, see 79.3.2.4.1. Values: 1: The PSE is a Type 1 PSE, for a Type 1 PSE 2: The PSE is a Type 2 PSE, for Type 2, Type 3, or Type 4 PSEs As clear as this already is, perhaps it could be even more clear. Generally the Type 3/4 single-signature definition of pse_dll_power_type and associated					
Globally change to the link to to the PI.	text in 33.3.7 PSE Type id has become imprecise in labeling Type 2, 3 and 4 PSEs as Type 2's.					
Proposed Response Response Status W PROPOSED ACCEPT.	Changing the variable enumerations to "is a Type 1" TRUE and FALSE seems like the easiest way forward.					
TFTD CJ: remedy instructs to globally change 'to the link' to 'to the PI'. At a minimum I want that with editorial license. I haven't searched the whole doc for 'to the link' to make sure it is appropriate in each instance to change to 'to the PI'.	SuggestedRemedy See stewart_01_1116 Proposed Response Response Status W WFP					
	TFTD					

Pa **138** Li **24**

C/ 33 SC 33.3.3.8 P 138 L 43 # 141 Stewart, Heath Linear Technology	Cl 33 SC 33.3.3.10 P 141 L 28 # 118 Schindler, Fred Seen Simply, Cisco, T
Comment Type T Comment Status D PD SD	Comment Type TR Comment Status X PSE SD
In the INRUSH state the PSE controls inrush, when tinrush expires the PD transitions to MDI_POWER1, then either begins to control inrush or transitions directly to its Pclass_PD state.	The Type 3 and 4 Single Signature PD state diagram prevents DLL from increasing power demand when the PSE power budget has increased. This occurs because the variable pse_power_level and pd_req_class is not changed when the PDMaxPowerValue is increased.
Note or is change to and to reflect the Miniumum(PDinrush, PDclass) function.	SuggestedRemedy
Also verb forms do not match (controls vs observe)	On page 150 modify the second column of Table 33-25 from "Assigned Class" to
CuggestedRemedy Change	" Assigned Class pse_power_level pd_req_class"
tinrushpd_timer A timer used to determine when the PD controls the input current, or observe PClass_PD power	Proposed Response Response Status W Huh?
limits; see TInrush_PD in Table 33–31. to tinrushpd_timer	I don't understand why this comment is associated with page 141, line 28, but the fix is on page 150. I also don't understand what the suggested remedy means.
A timer used to determine when the PD exits the INRUSH state and begins to either control the input current, and observe PClass_PD power limits; see TInrush_PD in Table 33–31.	TFTD TFTD FS:
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	PROBLEM The Type 3 and 4 Single Signature PD state diagram prevents DLL from increasing power demand when the PSE power budget has increased. This occurs because the variable
Change to: tinrushpd_timer A timer used to determine when the PD exits INRUSH and meets the requirements of	pse_power_level and pd_req_class is not changed when the PDMaxPowerValue is increased. Variable pse_power_level indicates the PSE power supplied to the PD. Table 33-25
MDI_POWER1; see TInrush_PD in Table 33–31.	provides the PD DLL maximum power value that the PD may operate at. To permit the PD state diagram to increase PD demand, pse_power_level needs to change because pd_req_class does not change.
MDI_POWER1 has the requirement of drawing class 3 power or less (see SD). This	pu_req_class does not change.
directly contradicts inrush currents above 400mA.	SOLUTION On page 150 modify the second column of Table 33-25 from "Assigned Class" to " Assigned Class
This comment is not clear to me.	pse_power_level pd_req_class"
	ADDITIONAL CONCERN pd_max_power □ min(3, pd_req_class)
	Is min() defined (Lennart says it is but I could not find it in .3)? I guess it means the smaller of the inputs so pd_max_power can never go higher than 3! What is the point of min(3, x)? If a PD wants class 2 it should get class 2. The min value needs to be guaranteed on the PSE side of the system so that indicators can work on an underpowered PD. Do you agree with these concerns? If so we need to created a TDL item.
YPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/ge COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/writ	

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

Ci 33 SC 33.3.10 P141 L.6 \pm 25 Beis, Christian STM crosectorics Microsectorics Microsectorics Microsectorics Microsectorics Microsectorics Comment Type E Comment Status D Press: Stewart Figure 33-23 Comment Type E Comment Status D Press: Stewart Figure 33-23 Replace and citizen from DLL_ENABLE state differ from the original Visio file Suggested/Remedy Replace and condition to P1 with pse_dll_power_type=1 (it is pse_power_type=3 in D2.1); Proposed Response Response Status W PROPOSED ACCEPT. TFTD L' Schulder (2) 016 pdf made that change, but this wasn't implemented in the Visio, but dreatly into the rest state diagram. Do not implement suggested remedy. TFTD C.1 caughtion to pse_dll_power_type TFTD C.1 caughtion the comment against D2.0, these labels were in Fred's baseline. TFTD C.1 caughtion to pse_dll_power_type TFTD C.1 caughtion to pse_dll					• ·					
Comment Type E comment Status D Press: Stewart1 Figure 33-32 Figure 33-32 Suggested/Remedy Replace set conditions from DLL_ENABLE state differ from the original Visio file Suggested/Remedy Replace set condition to P with pag_dll_power_type=1 (it is pse_power_type=3 in D2.1); Proposed Response Response Status W PROPOSED ACCEPT. Request with the suffix "mode(M)" in order to sync with D2.1. Status Condition to P with pag_dll_power_type=1 (it is pse_power_type=3 in D2.1); Adden tellowing text to 33.3.3.11 on page 142 after time 7: TFTD LY: Schnider, Q, 1906 pdf made that change, but this wasn't implemented in the Visio, but derive the requirements for dual-signature state machine ever each mode and mode B. The dual-signature state machine shall be implemented ower each pairset for mode A and mode B are denoted with the suffix "mode(M)" where M" can be 'A' or B', A parameters that and SW unless otherwise specified. All the parameters that and swith the suffix "mode(M)" where M" can be 'A' or B', A parameter that and SW unless otherwise specified. All the parameters that and SW unless otherwise specified. All the parameters that and SW unless otherwise specified. All the parameters that and SW unless otherwise specified. All the SW is and the suffix "mode(M)" where M" can be 'A' or B', A parameter that and SW unless otherwise specified. All the parameters that and swith the suffix "mode(M)" where M" can be 'A' or B', A parameter that and SW unless otherwise specified. All the suffix "mode(M)" where M" can be 'A' or B', A parameter that and SW unless otherwise specified. All the suffix "mode(M)" where M" can be 'A' or B', A parameter th	C/ 33 SC 33.3.3.	10 <i>P</i> 141	L 46	# 25	CI 33	SC	33.3.3.11	P 142	L 7	# 37
Figure 33-32 The exit conditions from DLL_ENABLE state differ from the original Visio file Suggested/Renedy The state conditions for DLL_ENABLE state differ from the original Visio file Suggested/Renedy Replace exit condition to P1 with pse_dll_power_type=1 (it is pse_power_type=3 in D2.1), and exit condition to P2 with pse_dll_power_type=1 (it is pse_power_type=3 in D2.1). PROPOSED ACCEPT. Schedender 0.0 (9016Rev/05.0pt from last comment resolution. In addition, the suffix _mode/M was changed to _mode/M in order to sync with D2.1. FTFD LY: Schedinger, 02_0916 pdf made that change, but this wasn't implemented in the Visio, but directly into the new state diagram. Do not implement suggested remedy. TFTD CJ: caught this too but confirmed with Lennart that pse_power_level = 3 / s3 are the right conditions based on a comment against D2.0. these labels were in Fred's baseline. RELECT the comment Response Status W PROPOSED ACCEPT IN PRINCIPLE. TFTD HS: review my presentation on pse_dll_power_type TFT D Y: TFTD FS: See D2.0 schindler_01_0916 for accepted changes that resulted in D2.1 figure 33-32. On page 132, file 50 Change: "Dual-signature Type 3 and Type 4 PDs shall provide the behavior of the state diagram shown in Figure 33-33'. Cf 33 SC 33.3.3.1 P142 L 7 # [74] Dual-signature state machine some updates. See dashina_17_1116.pdf. Proposed Response Response Status W werp TFTD VD: The remedy is OK but there is more issues covered by darshan_17_1116.pdf	Beia, Christian	STMicroelectro	onics		Darshan, Y	/air		Microsemi		
The exit conditions from DLL_ENABLE state differ from the original Visio file Suggested/Remedy Replace exits condition to P1 with pse_dll_power_type=1 (it is pse_power_type=3 in D2.1), and exit condition to P2 with pse_dll_power_type=1 (it is pse_power_type=3 in D2.1) Proposed Response Response Status W PROPOSED ACCEPT. TFTD LY: Schulder 0.2 (916 pdf made that change, but this wasn't implemented in the Visio, but directly into the new state diagram. Do not implement suggested remedy. TFTD CI: caught this too but confirmed with Lenant that pse_power_level=3 / >3 are the fight conditions to pse_dll_power_type TFTD CS: review my presentation on pse_dll_power_type TFTD CS: TFTD TPIS: TFTD TPI	Comment Type E	Comment Status D		Pres: Stewart1	Comment	Туре	TR	Comment Status D		Pres: Darshan1
Suggested/Reindry Replace with condition to P1 with pse_dll_power_type=3 (it is pse_power_type=3 in D2.1), and exit condition to P2 with pse_dll_power_type=3 (it is pse_power_type=3 in D2.1). Proposed Response Response Status W PROPOSED ACCEPT. With pse_dll_power_type=3 (it is pse_power_type=3 (it	The exit conditions fr	om DLL_ENABLE state differ fr	om the origina	l Visio file	page 1	1 lines	3-7 in dar	shan_09_0916Rev005.pdf	from last comm	ent resolution.
and exit condition to P2 with pse_dil_power_type>1 (it is pse_power_type>3 in D2.1) Proposed Response Response Status W PROPOSED ACCEPT. TFTD IV: Schindler_02_0916.pdf made that change, but this wasn't implemented in the Visio, but directly into the new state diagram. Do not implement suggested remedy. TFTD C.: caught this too but confirmed with Lennart that pse_power_level =3 / >3 are the right conditions based on a comment against D2.0. these labels were in Fred's baseline. REJECT the comment TFTD YD: TFTD YD: TFTD YD: TFTD YD: TFTD YD: TFTD FS: See D2.0 schindler_01_0916 for accepted changes that resulted in D2.1 is correct due to approved remedy on tehsubject in D2.0 TFTD FS: See D2.0 schindler_01_0916 for accepted changes that resulted in D2.1 figure 33-32. Cf 33 SC 33.3.11 P142 L7 # 74 Darshan, Yair Comment Type TR Comment Status X Pres: Darshan17 Dual-signature statu machine needs some updates. See darshan_17_1116.pdf. Proposed Response Response Response Status W WFP										
PROPOSED ACCEPT. TFTD LY: Schindler_02_0916 pdf made that change, but this wasn't implemented in the Visio, but directly into the new state diagram. Do not implement suggested remedy. TFTD CJ: caught this too but confirmed with Lennart that pse_power_level =3 / >3 are the right conditions based on a comment against D2.0. these labels were in Fred's baseline. REJECT the comment TFTD YD: TFTD YD: TFTD YD: TFTD YD: TFTD YD: TFTD S: see D2.0 schindler_01_0916 for accepted changes that resulted in D2.1 lis correct due to approved remedy on tebsubject in D2.0 TFTD FS: See D2.0 schindler_01_0916 for accepted changes that resulted in D2.1 ligure 33-32. Cl 33 SC 33.3.11 P 142 Carshan, Yair Microsemi Comment Type TR Comment Status X Pres: Darshan17 Dual-signature state machine needs some updates. See darshan_17_1116.pdf. SuggestedRemody Adopt darshan_17_1116.pdf. Proposed Response Response Status W WFP WFP	Replace exit condition to and exit condition to	n to P1 with pse_dll_power_typ P2 with pse_dll_power_type>1	e=1 (it is pse_p (it is pse_powe	power_type=3 in D2.1), er_type>3 in D2.1)	Add th	e follow	ing text to			
TFTD LY: Schindler, 02_0916.pdf made that change, but this wasn't implemented in the Visio, but directly into the new state diagram. Do not implement suggested remedy. TFTD CJ: caught this too but confirmed with Lennart that pse_power_level =3 / s3 are the right conditions based on a comment against D2.0. these tabels were in Fred's baseline. REJECT the comment TFTD CF: caught this too but confirmed with Lennart that pse_power_level =3 / s3 are the right conditions based on a comment against D2.0. these tabels were in Fred's baseline. REJECT the comment TFTD VP: There is an error in the comment and also what we have in D2.1 is correct due to approved remedy on tehsubject in D2.0 TFTD FS: See D2.0 schindler_01_0916 for accepted changes that resulted in D2.1 figure 33-32. C/ 33 SC 33.3.11 P142 L7 # 74 Comment Type TR Comment Type TR Comment Status X Pres: Darshan17 Dual-signature to the machine needs some updates. See darshan_17_1116.pdf. SuggestedRemedy Adopt darshan_17_1116.pdf. Proposed Response Response Status W WFP WFP					and mode	odeB. T A and n	he dual-s	ignature state machine sha dependently unless otherw	all be implemente ise specified. All	ed over each pairset for the parameters that
Do not implement suggested remedy. TFTD CJ: caught this too but confirmed with Lennart that pse_power_level = 3 / >3 are the right conditions based on a comment against D2.0. these labels were in Fred's baseline. REJECT the comment TFTD KS: review my presentation on pse_dll_power_type TFTD YD: TFTD FS: See D2.0 schindler_01_0916 for accepted changes that resulted in D2.1 is correct due to approved remedy on tehsubject in D2.0 TFTD FS: See D2.0 schindler_01_0916 for accepted changes that resulted in D2.1 figure 33-32. C/ 33 SC 33.3.11 P 142 L 7 # 74 Darshan, Yair Microsemi Comment Type TR Comment Status X Pres: Darshan17 Dual-signature state machine needs some updates. See darshan_17_1116.pdf. Proposed Response Response Status W WEP	Schindler_02_0916.p		vasn't impleme	ented in the Visio, but	"A" or	"B". A p	arameter			
TFTD CJ: caught this too but confirmed with Lennart that pse_power_level =3 / >3 are the right conditions based on a comment against D2.0. these labels were in Fred's baseline. REJECT the comment TFTD H: TFTD YD: There is an error in the comment and also what we have in D2.1 is correct due to approved remedy on tehsubject in D2.0 schindler_01_0916 for accepted changes that resulted in D2.1 figure 33-32. On page 132, line 50 Cl 33 SC 33.3.3.11 P 142 L 7 # [74] Darshan, Yair Microsemi Pres: Darshan17 Discomment Type Comment Type TR Comment Status X Pres: Darshan17 SuggestedRemedy Adopt darshan_17_1116.pdf. Proposed Response Response Status W WFP WFP Were Were Were					Proposed I	Respon	se	Response Status W		
caught this too but confirmed with Lennart that pse_power_level =3 / >3 are the right conditions based on a comment against D2.0. these labels were in Fred's baseline. The right conditions based on a comment against D2.0. these labels were in Fred's baseline. REJECT the comment TFTD HS: review my presentation on pse_dll_power_type On page 132, line 50 TFTD YD: There is an error in the comment and also what we have in D2.1 is correct due to approved remedy on tehsubject in D2.0 TFTD FS: See D2.0 schindler_01_0916 for accepted changes that resulted in D2.1 figure 33-32. Cl 33 SC 33.3.11 P142 L7 # [74] Darshan, Yair Microsemi Comment Type TR Comment Status X Pres: Darshan17 Dual-signature state machine needs some updates. See darshan_17_1116.pdf. Proposed Response Response Status W WFP WFP Were Were Were Were					PROP	OSED	ACCEPT	IN PRINCIPLE.		
TFTD HS: review my presentation on pse_dll_power_type TFTD YD: There is an error in the comment and also what we have in D2.1 is correct due to approved remedy on tehsubject in D2.0 TFTD FS: See D2.0 schindler_01_0916 for accepted changes that resulted in D2.1 figure 33-32. Cl 33 SC 33.3.11 P 142 L 7 # [74] Darshan, Yair Microsemi Comment Type TR Comment Status X Pres: Darshan17 Dual-signature state machine needs some updates. See darshan_17_1116.pdf. Proposed Response Response Status W WFP WFP W W W W	caught this too but co conditions based on	a comment against D2.0. these						ne "constants" section. It b	pelongs in the PD	state diagram intro
There is an error in the comment and also what we have in D2.1 is correct due to approved remedy on tehsubject in D2.0 TFTD FS: See D2.0 schindle_01_0916 for accepted changes that resulted in D2.1 figure 33-32. C/ 33 SC 33.3.11 P 142 L 7 # T4 Darshan, Yair Microsemi Comment Type TR Comment Status X Pres: Darshan17 Dual-signature state machine needs some updates. See darshan_17_1116.pdf. SuggestedRemedy Adopt darshan_17_1116.pdf. Proposed Response Response Status W WFP	TFTD HS:				Chang	je: "Dua	Il-signatur		shall provide the	behavior of the state
See D2.0 schindler_01_0916 for accepted changes that resulted in D2.1 figure 33-32. Cl 33 SC 33.3.11 P 142 L 7 # 74 Darshan, Yair Microsemi Microsemi The remedy is OK but there is more issues covered by darshan_17_1116.pdf Comment Type TR Comment Status X Pres: Darshan17 The remedy is OK but there is more issues covered by darshan_17_1116.pdf SuggestedRemedy Adopt darshan_17_1116.pdf. Proposed Response Response Status W WFP WFP WFP WFP Microsemi	There is an error in the remedy on tehsubject		nave in D2.1 is	correct due to approved	shown param where	in Figu eters th "M" car	re 33–33 at apply to be "A" o	over each pairset independ o mode A and mode B are r "B". A parameter that end	dently unless oth denoted with the	erwise specified. All the suffix "_mode(M)"
C/ 33 SC 33.3.11 P 142 L 7 # 74 The remedy is OK but there is more issues covered by darshan_17_1116.pdf Darshan, Yair Microsemi Pres: Darshan17 The remedy is OK but there is more issues covered by darshan_17_1116.pdf Comment Type TR Comment Status X Pres: Darshan17 Dual-signature state machine needs some updates. See darshan_17_1116.pdf. Pres: Darshan17 SuggestedRemedy Adopt darshan_17_1116.pdf. Adopt darshan_17_1116.pdf. Proposed Response Response Status W WFP WFP		01_0916 for accepted changes	that resulted in	D2.1 figure 33-32.			es for mod	e A and mode B."		
Dual-signature state machine needs some updates. See darshan_17_1116.pdf. SuggestedRemedy Adopt darshan_17_1116.pdf. Proposed Response Response Status W WFP			L7	# 74			s OK but t	here is more issues covere	ed by darshan_17	7_1116.pdf
Adopt darshan_17_1116.pdf. Proposed Response Response Status W WFP	Dual-signature state	machine needs some updates.		Pres: Darshan17						
Proposed Response Response Status W WFP	SuggestedRemedy									
WFP	Adopt darshan_17_1	116.pdf.								
TFTD		Response Status W								
	TFTD									

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Page, Line Pa **142** Li **7**

				-				
C/ 33 SC 33.3.3.4 Yseboodt, Lennart	I3 P 144 Philips	L 16	# 227	C/ 33 Stewart, He	SC 33.3.3.1 ath	-	5 L 1 Technology	# 145
Comment Type T	Comment Status D		PD SD	Comment T	vpe TR	Comment Status))	PD S
from drawing more th	de(M): A timer used to preven an Type 1 power over Mode N an Class 2 power over Mode 1 3-31."	I and Class5 Ty	pe 4 dual-signature PDs	signatu SuggestedF	e PD does no Remedy	r 4 single-signature PD ot? s in single-signature Typ		state while a dual-
Needs to be updated	per the tpowerdly_timer desci	iption.		Proposed R		Response Status		
SuggestedRemedy				,	SED ACCEP	,	, v	
I Inrush_PD-2P durin Proposed Response	ent Type 3 and Type 4 PDs fro g the PSE's inrush period; Sec <i>Response Status</i> W			instruct	to do this, but ons to me, yo	we've fallen into the h ur friendly neighborhood vithout a specific instruc	editor. In this case,	
PROPOSED ACCEP	'I.			C/ 33FRO	SC 33.3.3.1	6 P 14	6 L 13	# 83
TFTD YD:				Darshan, Ya		Microse		
	be ""A timer used to prevent T D andI Inrush_PD-2P during t			Comment T	vpe TR	Comment Status	¢	Pres: Darshan1
min; See T delay-2P				 The exit from MDI_POWER1 state to MDI_POWER2 through MDI_POWER_DLY state can be simplified (as done for the single-signature PD state machine) by replacing the exit conditions from MDI_POWER1 to MDI_POWER_DLY from: (pse_power_level_mode(M) > 3) + (pse_dll_power_type >1) 				
C/ 33 SC 33.3.3.4 Beia, Christian	I5 P 144 STMicroelect	L 33 ronics	# [16					
Comment Type E	Comment Status D		Editorial		e nower leve	el_mode(M) > 3) + (pse_	dll power type	
	d be placed before the descrip signator M is also used.	tions of constar	nts and variables where	>1))*tpc 2. Now	werdly_timer_ the MDI_POV	_done_mode(M) VER_DLY state and the	exit from it can be d	eleted and resulted with
SuggestedRemedy						ectly connected to MDI_	OWER2.	
move paragraph 33.3	3.3.15 right after 33.3.3.1			SuggestedF		Labova		
Proposed Response	Response Status W			To adopt the proposal above. See SM drawing darshan_16_1116.pdf for the proposed changes.				
PROPOSED ACCEP	'Т.			Proposed R	esponse	Response Status	N	
				, WFP	,			
TFTD LY:								

Pa **146** Li **13**

PD Power

CI 33	SC 33.3.4	P 147	L 8	#	102
Jones, Cha	d	Cisco			

Comment Status D

I feel very strongly that we sold the formation of this standard based on efficiency and the ability to lower cable loss. We went one step further and promised the WG that we would not raise the power allowed over a 2P system above 30W. And then the Dual Signature PD was used as a trojan horse to sneak this ability into the standard. There is not one piece of text that states that a DS PD that draws power only from one pairset must not draw more than Type 2 power. I am resolute that a PD that wants more than 30W shall do so using 4P. Presently, the only penalty for a designer that wants more than 30W but doesn't want to implement a 4P design is that they have to have a valid detection signature on the unpowered pair. This is not much of an impediment to misbehavior.

SuggestedRemedy

Comment Type **TR**

add these sentences to the end of paragraph 2 on page 147 (at line 8): A Type 4 dualsignature PD that is powered over only one pairset shall only draw class 4 power from that pairset until it is powered on both pairsets. This prevents the intentional design of a PD to exceed Type 2 power on only 2P.

Proposed Response Response Status W

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TFTD
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We should not be putting reasons into the draft everywhere....

Add these sentences to the end of paragraph 2 on page 147 (at line 8): "A Type 4 dual-signature PD that is powered over only one pairset shall draw class 4 power or less from that pairset until it is powered on both pairsets."

What about a DS PD where power was there, but then removed?

TFTD CJ:

"This is not putting reasons everywhere. This is to clearly define misbehavior and prevent it. As for your question: the SHALL speaks for itself. If a DS is powered over 4P and then drops to 2P then it must drop power consumption to <25.5W. Anything else would be a hole for misbehavior. Also, having thought about it more this restriction needs to be placed on both ends. To effectively disallow this behavior, a shall is also needed on the PSE side (and in the SD). ""A Type 4 PSE shall not assign Class 5 to a dual-signature PD, when operating over 2-pair"". I'm guessing the SD will be a D2.1 To do item for me."

Response DNA: I think the fault case is much more complicated...how long does the PSE or PD have to reduce power?

C/ 33	SC 33.3.8.2.1	P 14	18 L	_ 37	#	59
Darshan, Yair		Micros	semi			
Comment Typ	e TR	Comment Status	х			PD Power

(This comment was in TDL from comment #47 D2.0)

"...the PD may consume greater than PClass_PD but shall not consume greater than PClass at the PSE PI."

Problem: Equation 33-2 defines Pclass by Rchan and Pclass_PD. If a PD consumes more than Pclass_PD, it will by definition cause Pclass in equation 33-2 to be exceeded.

SuggestedRemedy

If not resolved yet for D2.1, add it to the TDL for the next draft.

TFTD

C/ 33	SC 33.3.6	P 149	L 6	# 121	
Schindler	, Fred	Seen Simply,	Cisco, T		
Comment	t Type TR	Comment Status D		PD	Power

It is not clear what the definitions of "advertised Class by the PD" (page 149 Line 6, page 157 Line 21) and "requested Class by a PD" (page 149 Line 30) are. See a related comment, marked COMMENT-1 for comments on requested Class. Both of these terms seem to indicate the maximum class a PD would request if connected to a PSE without a power budget limitation. Also see a related comment, marked COMMENT-2.

SuggestedRemedy

If the definition is the same for both terms replace "advertised Class" with "requested Class." If the advertised class is the maximum class a PD would request if connected to a PSE without a power budget limitation, then on page 149 add the following to the last sentence on line 7. "The advertised Class by the PD is the maximum class a PD would request when classification probed by a PSE without a power budget limitation."

Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.

I believe this is OBE by 233.

TFTD

Pa **149** Li **6**

C/ 33	SC 33.3.6	P149 L6	# 119	C/ 33	SC 33.3.6	P 149 L 30	# 120
Schindler, Fr	red	Seen Simply, Cisco, T		Schindler, I	Fred	Seen Simply, Cisco, T	
Comment Ty	/pe TR	Comment Status D	PD Power	Comment 7	Type TR	Comment Status X	PD Class

The existing text, "The Class advertised by the PD during Physical Layer classification is the maximum power that a Type 3 or Type 4 PD shall draw." Should be clarified to allow, already agreed upon operational states where a power limited PSE stops its physical layer classification at a point within its budget (page 106, line 11). After this point, the PSE may have its budget increase, due to a system power budget change, and use DLL to move the previously power constrained PSE port to a higher power level. The upper power level is limited by what the PD will request using physical layer classification if the PSE uses all classification events allowed.

The advertised Class of a PD is not defined and is not used in the OPTION-1 solution. See a related comment marked COMMENT-2 for details related to OPTION-2 solution.

SuggestedRemedy

OPTION-1:

Replace the called out sentence with,

"The Class advertised by the PD during Physical Layer classification is the maximum power that a Type 3 or Type 4 PD shall draw before DLL is utilized. A Type 3 or Type 4 PD shall draw no more than the Class advertised by the PD during Physical Layer classification when classification probed by a Type-4 PSE that has no power budget limitation. "

OPTION-2: (if COMMENT-2 is accepted, and preferred) No change to the text called out in this comment.

Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.

I believe this is OBE by 233.

TFTD

TFTD CJ:

after 233 is accepted this should be rejected. There is no need to mention DLL here. The class requested via physical layer is the max. there is nothing saying that it can never draw more than originally granted via L1 if more information becomes available - so long as the PD was designed to advertise that extra power draw via L1.

 Comment Type
 TR
 Comment Status
 X
 PD Class

 The existing text, "The requested Class of the PD is the amount of power the PD requests from the PSE, as defined in 33.3.6.1 and 33.3.6.2." is not always measurable. For example, a PD that requests class 8 from a PSE only supporting a class-4 power budget would results in class events 4, 4, which would provide requested class-4. If the PSE can support class-5 then another event would occur resulting in events 4, 4, 3, which could be a result from a PD requesting class 8 or from something else that may result in an

unexpected series of class values (see page 136, pd_req_class). The PSE does not know the real PD requested class value because the PSE power budget limits how many events the PSE produces. This understanding does not change system operation but should be pointed out to the reader. The existing text should also be expressed better. Is there a real benefit making pd_req_class 8, for this case, rather than 5? Was that even the intent?

SuggestedRemedy

OPTION-1:

Replace the called-out text with, "The requested Class of the PD is the highest class a PSE establishes, as defined in 33.3.6.1 and 33.3.6.2. The PSE classification events produced are limited by the PSE power budget. The requested Class of the PD provided may assume that the last class value will repeat if probed for the maximum number of class event times possible for a full-powered PSE."

OPTION-2: (preferred)

Replace the called-out text with, "The requested Class of the PD is the highest class a PSE establishes, as defined in 33.3.6.1 and 33.3.6.2. The PSE classification events produced are limited by the PSE power budget."

Proposed Response Response Status W

TFTD

TFTD CJ:

you are over complicating this. The value pd_req_class is a constant and it equals the physical layer class. All we need to ensure is that a PD that gets less power than requested via physical layer is allowed to later move to a higher power IF THE PSE initiates the increase.

Pa **149** Li **30**

C/ 33 SC 33.3.8.3 P 149 L 30 # 61 Darshan, Yair Microsemi	CI 33 SC 33.3.6 P 149 L 30 # 148 Stewart, Heath Linear Technology Linear Technology
Comment Type T Comment Status X Pres: Darshans (TDL #460 from D2.0)	B Comment Type E Comment Status D Editorial Description of the requested class is inconsistent with a prior definition on line 10 same page. Add the word maximum.
 Lennarts comment #460 from D2.0. "If a PD has a larger C Port or C Port-2P value, then the PD shall limit the input inrush current such that I Inrush_PD max and I Inrush_PD-2P max, as defined in Table 33-28, are met." Very true, but also redundant to the requirement a few paragraphs above: "PDs shall draw less than I Inrush_PD and I Inrush_PD-2P from T Inrush-2P min until T delay-2P min." SuggestedRemedy Remove the "If a PD has a larger" sentence. ACCEPT. Add to the TDL: Darshan, Make sure removal of shall on page 149, line 30 in D2.0 does not cause issues. 	SuggestedRemedy Change The requested Class of the PD is the amount of power the PD requests from the PSE To The requested Class of the PD is the maximum amount of power the PD requests from the PSE Proposed Response Response Status PROPOSED ACCEPT. TETD LY:
SuggestedRemedy See darshan_03_1116.pdf. Proposed Response Response Status W WFP TFTD	Confusing: maximum implies that Pds regularly change their requested Class, or ask for something differently. No change to draft. TFTD FS: The comment appears to be referencing "PD classification" to get the duplicate definition for "requested class". The definitions for assigned and requested are not clear—see my comments 116, 120, 121. The proposed definition fits assigned class but not requested class. Also see 235.

Pa **149** Li **30**

C/ 33 SC 33.3.6	P 149	L 35	# 93	C/ 33 SC 33.3.6.1	P 150	L 21	# 94		
Jones, Chad	Cisco			Jones, Chad	Cisco				
Comment Type ER	Comment Status D		PD Class	Comment Type E	Comment Status X		PD Class		
LLDP than was reque line 32, but it is vague	is weak on the statement that ested on the physical layer. Yes e.			return Class 0, 1, 2, o	PDs may choose to impleme r 3 in accordance with the ma at does a PSE or PD gain by p	ximum power dra	aw, PClass_PD." is a		
SuggestedRemedy		l eleccification	the engineer Class	SuggestedRemedy					
changes depending o 33–25."	n line 35: "After a successful Di on the value of 35 PDMaxPowe on cannot be used to negotiate I layer classification."	rValue variable	as defined in Table	is this here simply to a the SD less complex?	allow a Type 1 PD to set pd_2) if so, can we say that here to allowed to set pd_2-event to 50, line 21.	o give a clue why	y the sentence exists?		
Proposed Response	Response Status W			Proposed Response	Response Status W				
PROPOSED ACCEP	T.			TFTD					
The word "cannot" is We already have a sl TFTD YD: The remedy is OK bu	nall, we don't need to repeat it	n different word	s.	of a 1-Event class sig paragraph 33.3.5.1 sh	hristian made this comment a nature is the response of a (w ould describe the behavior of of 1-event class signature in cl	hatever) PD to 1 Type 2 PDs as v	 Event classification, well. Alternatively, 		
C/ 33 SC 33.3.6.1	P 149	L 43	# 26	hence we accomodate	ed. This is the text from AT:PD	Os implementing	a 2-Event class		
Beia, Christian	STMicroelectr	onics			Class 4 in accordance with the				
Comment TypeTComment StatusXEditorialDespite of the title, 33.3.6.1 deals with both single and multiple-event class signature.				specified in Table 33–18. Since 1-Event classification is a subset of 2-Event classification, Type 2 PDs respond to 1-Event classification with a Class 4 signature. Type 1 PDs may choose to implement a 2-Event class signature and return Class 0, 1, 2, or 3 in accordance					
SuggestedRemedy Merge 33.3.6.1 and 3 Change the title to PI	3.3.6.2 in one subclause. D class signature			with the maximum power draw, Pclass_PD. The Type 2 PD's classification behavior shall conform to the electrical specifications defined by Table 33–17 this is in the 1-event class sig section. So here's what happened: the text got moved around trying to cordon off T1 from T2 from T3,4. in doing that, we lose the context and the statement has become					
Proposed Response TFTD	Response Status W				's effectiveness. I think the sta assification' should be reinste				
This is a hold over fro	om the AT spec								
The title really means	"How PDs respond to a single	e-event class"							

Pa 150 Li **21**

PD Class

C/ 33	SC 33.3.6.2	P 151	L 49	#	236
Yseboodt, Le	ennart	Philips			

Comment Type TR Comment Status D

"Type 3 and Type 4 PDs shall conform to the electrical requirements as defined by Table 33-31 for the level defined in the pse_power_level state variable."

 $\ensuremath{\mathsf{pse_power_level}}$ does not equate to the assigned Class, which is what the PD needs to conform to.

SuggestedRemedy

"Type 3 and Type 4 PDs shall conform to the electrical requirements as defined by Table 33-31 per the Class in the pd_max_power variable or pd_max_power(M) variable."

Also, move this paragraph to page 152, line 16.

Update PICS PD30 to match.

Proposed Response Response Status W PROPOSED ACCEPT

TFTD HS: Ok with idea but missing suffix, pd_max_power"_mode"(M)

TFTD YD:

"Lannart in his comment said: ""pse_power_level doesnt equate to the assigned class which is what the pd needs to conform to"" is correct only to the parameters that are functions of the assigned class and not all the parameters are function of the assigned class. Some of the parameters are function of the required class only such linrush and linrush-2P that we will discuss it in the meeting this week. The remedy should be: ""Type 3 and Type 4 PDs shall conform to the electrical requirements as defined by Table33-31 per the PD type column unless otherwise specified. ""in the Class in the pd_max_power variable or pd_max_power(M) variable.""In Table 33-1 and only there in one place to review all parameters and decide which parameter is used per the assigned class or per the required class (althoug this is what it says in D2.1) PDs are always designed with Inrush and Inrush-2P that for their required class or advertized class. For that matter, the current wording is OK (pse_power_level) but not for all parameters."

TFTD FS:

This comment is not clear and is related to other concerns about power assigned.

pse_power_level related definition on page 144, indicates "A control variable that indicates to the PD the level of power the PSE is supplying ..."

page 149 Line 31,

"Depending on the number of class events produced by the PSE, the assigned Class is equal to the requested Class, or it may be lower. The PD shall conform to the assigned Class, regardless of the Class it requested."

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

pse_power_level the power the PSE is providing to the PD. Assigned what the power the PD gets from the PSE. Why is assigned not equal to pse_power_level?

Requested class power is what the PD wants but may not get from the PSE.

C/ 33	SC 33.3.6.2	P 152	L 9	# 12	2
Schindler	, Fred	Seen Simply, C	Cisco, T		
Comment	t Type TR	Comment Status D			PD Class

The explanation of how DLL may alter PD variables to affect classification is spread over widely-separated points, which may lead to confusion. See points on page 149 line 35, Table 33-25 on page 150, and page 152 line 5.

SuggestedRemedy

Add a cross reference to the end of text on page 152 line 9. "... the variable pd_max_power. DLL affects pd_max_power indirectly by changing PDMaxPowerValue shown in Table 33-25."

Proposed Response Response Status W

PROPOSED ACCEPT.

TFTD LY:

Currently there is no "shall" associated with PDMaxPowerValue. The proper fix is to do that. Append to 33.3.8.2: "PDs that have succesfully completed DLL classification, shall not exceed power consumption of PDMaxPowerValue as defined in 33.5.3.3.

Pa **152** Li **9** Page 37 of 53 11/6/2016 10:34:56 AM

C/ 33 SC 33.3.6.3 P 153 L 19 # 156 Stover, David Linear Technology Linear Technology	C/ 33 SC 33.3.7 P 153 L 41 # 237 Yseboodt, Lennart Philips
Comment Type E Comment Status D Editorial	Comment Type TR Comment Status D PD Class
Units for Table 33-18 and Table 33-30 (PSE and PD Autoclass timing, respectively) are mismatched.	"Type 3 and Type 4 PDs may determine the Type of the PSE they are connected to by measuring the length of the first class event. The default value for long_class_event is
SuggestedRemedy	FALSE, which indicates the PSE is a Type 1 or Type 2 PSE. The PD may set long_class_event to TRUE if the first class event is longer than TLCE_PD min and shall
Specify all items in Table 33-30 in seconds, to match PSE Table 33-18.	set long_class_event to TRUE if the first class event is longer than T LCE_PD max."
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	A PD is not required to measure the length of the LCE. This text has an unconditional shall in it.
TACS should be in ms.	SuggestedRemedy
Change Tauto_pd1 and Tauto_pd2 to seconds (s).	"Type 3 and Type 4 PDs may determine the Type of the PSE they are connected to by measuring the length of the first class event. Such PDs shall set long_class_event to FALSE if the first class event is shorter than T_LCE_PD min, and shall set
I don't believe there is a rule saying all timing parameters in a table have to have the same unit	long_class_event to TRUE if the first class event is longer than T_LCE_PD max."
	Add these requirements to the PICS.
TFTD LY: IEEE-SA Standards Style Manual, 13.3.1 "The same units of measure shall be used	Proposed Response Response Status W
throughout each column; ohms shall not be combined with megaohms, millimeters with centimers, or seconds with minutes."	PROPOSED ACCEPT.
No change to draft.	TFTD YD:
Response DNA: Our draft does not alwasys follow this rule (thus my belief it didn't exist). See Table 33-19. ms vs s, mV vs. V.	The problem is not clear and what has chaged in the remedy to resolv ethe comment? Why PD is not required to measure the length of LCE? Why the "default value" was removed?

Pa **153** Li **41**

Gebood. Lennart Philps Darsha, Yair Microsemi Commont Type ER Commont Status D PD Poyer As we did for the PSE Table, we should use 'per the assigned Class' in the PD Table 33-31. The Commont Status X Pers: Darsha, Yair Suggested/Remedy Use the construction 'per the assigned Class' in the PD Table 33-31 where appropriate. The Commont Status X Pers: Darsha, Yair PROPOSED ACCEPT. TTTD CB: In the comment Status IN Proceed Response Status IN Proceed Response Is assigned Class' TTTD VD: "All the comment Status Is to change in the tills to 'assigned class'' has huge the assigned class or ton. Example: lintush and lintush-2P cample the assigned class or ton. Example: lintush and lintush-2P cample the assigned class or the transher is appropriate is appropriate is appropriate. The changes in D2.1 for them 7 were made as a response to comment #523 for D. Lennart. Comment Type I Comment Status D Exitorial Is an against this aremody in giving the additional to acke as or the table it is specified If it is perified as a response to comment #523 in D2.1 Class C 33.3.8 P154 L 37 Zaio Class C as inter to the PSE inrush peak value ? Finance I and and inrush, PD-2P) both say in the additional if were was implemented correctly. Item 7 was not. Darshan Type I Comment Type I and a Table Sas 31. Where is no mather to a gasing the additis and the appolyabuildinary Efdiarshand 10,	CI 33 SC 33.3.8	P 154	L 1	# 239	CI 33	SC 33	3.3.8	P 154	L 42	# 78
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not important if it is the assigned class or the advertised class.

As a result, we need to restore the types that we have in the approved base line from May 2016 with the approved comments up to D1.8.

In addition in order to prevent confusion, we may need to consider changing the title of item 6:

From:

" Input inrush current as function of the assigned Class, when the PD is limiting the current during the inrush period per 33.3.8.3."

To:

"Input inrush current when the PD is limiting the current during the inrush period per 33.3.8.3."

The same issues with Item 7 linrush-2P.

This will prevent the confusion that the assigned class affect PD linrush requirements. The main problems that I see resulting from the changes in D2.1 in Table 33-31 items 6 and 7 are:

1. First implement the approved baseline from May 2016. We can start the discussion from this point again.

2. PD can't change its linrush, Inrush-2P requirements as a function of its assigned class. PD linrush and Inrush-2P are designed per the advertised class. PD can't switch Input capacitors and Inrush circuitry.

3. One undesired outcome from the changes in D2.1 that says that Type 7,8 PDs can have assigned class 0-6 is that it opens the door to Type 4 PDs that are only permitted to be class 7 and 8, to be designed for lower classes than class 7 and work only at lower classes. It doesn't mean that PD can't work with reduced power mode when there is no class 7-8 available power but this feature has nothing to do with the assigned class feature that is not relevant to linrush function.

SuggestedRemedy

Adopt darshan_18_1116.pdf.

Proposed Response Response Status W WFP

TFTD

CI 33	SC 33.3.8	P 154	L 42	# 79	
Darshan, Ya	ir	Microsemi			

Comment Type TR Comment Status X

(Resubmitting comment #522 from David Stover so we can address it properly.) (I am not resubmitting #523 from Lennart due to the fact that the comment and remedy was based on the assumption that it is editorial and as a result was not discussed at all and rationale was not supplied for the change. We can address it by my comment marked "linrush_mess")

Table 33-31 item 6 Ilnrush_PD class 0-6: The PD Type is "ALL" but it need to be "1,2,3" since Class 6 is only valid in Type 3 PD and not Type 4.

SuggestedRemedy

Table 33-31 item 6 Ilnrush_PD class 0-6:

1. Change "PD Type" from "ALL" to "1,2,3".

2. Group to discuss if linrush and linrush-2P need to be a function of the assigned class or not. There are issues with this concept. See darshan_18_1116.pdf.

Proposed Response	Response Status	w
WFP		

TFTD

C/ 33	SC 33.3.8	P 155	L 18	# 241
Yseboodt,	Lennart	Philips		

Comment Type TR Comment Status D

PD Inrush

Pres: Darshan18

Table 33-31, item 7, T_Inrush_PD has PD Type = "3, 4".

The relevant requirement in 33.3.8.3 applies also to Type 2 PDs.

SuggestedRemedy

Change PD Type for Item 7 to "2, 3, 4".

Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.

It applies to both Type 1 and Type 2.

Change PD Type for Item 7 to "All".

TFTD CB:

T_inrush_PD is not relevant for Type1 PDs since they were never asked to limit linrush. It may be read as a new requirement.

Response DNA: linrush applies to Types 1 and 2 in the 2012 standard. Also the text that says PDs must control inrush if C > 180 μ has no stipulation on Type (so it applies to both Type 1 and 2). Tdelay does not apply to Type 1.

Pa **155** Li **18** Page 40 of 53 11/6/2016 10:34:56 AM

C/ 33 Yseboodt, L	SC 33.3.8 Lennart	P 156 Philips	L 16	# 243	Cl 33 SC 33.3 Yseboodt, Lennart	8.8.2	P 157 Philips	L 20	# 245
"The ma	note of Table 33- aximum PPort_	Comment Status D -31: PD may be limited to less that external unbalance in order to			Comment Type E "PClass_PD and the PSE." Sentence can be	PClass_PD-2P	ent Status D in Table 33-31 are	e determined by t	PD Powe the Class assigned by
	s may not reach	efers to dual-signature PDs, i Pclass_PD-2P because ther			SuggestedRemedy "PClass_PD and Class."	PClass_PD-2P	in Table 33-31 are	e determined per	the PSEs assigned
This for	otnote only crea	tos confusion			Proposed Response	Respon	se Status 🛛 🛛 🛛 🛛 🛛 🖉		
					PROPOSED ACC	EPT IN PRINC	IPLE.		
SuggestedF Remove	-	from the footnote.			"PClass_PD and	PClass_PD-2P	in Table 33-31 are	determined per	the PDs assigned
Proposed R	Response	Response Status W			Class."				
•	OSED ACCEPT.				TFTD YD:				
	ote was added b	by Pete. His concern was that s affected by unbalance, one		e a bit higher power	term. Where thos C/ 33 SC 33.3		P 157	L 37	# 62
than Po violation the rem by pair- 2P and 33.3.8.2	class-PD-2P and n of Pclass-PD- nedy we write: "" -to-pair unbaland I the other pairse 10. Therefore it	the other will be lower than 2P per pair set and Pclass-2l Dual-signature PD implement ce, in which one pairset will h at will be lower than Pclass-P is recommended that PClass e load, may be limited to less	P in the PSE.I an nted with single I ave a bit higher D-2P which may s_PD for dual-sig	m suggesting that in oad may be affected power than Pclass_PD- result in violation of gnature PDs that are	signature PDs an This is continuation clauses content th	.4 and 33.3.8.4. d dual-signature on of the work d	PDs. one for comment #		Pres: Darshan ate between single- o cover the rest of the
than Pc violatior the rem by pair- 2P and 33.3.8.7 implem	class-PD-2P and n of Pclass-PD- nedy we write: "" -to-pair unbaland I the other pairse 10. Therefore it	2P per pair set and Pclass-2 Dual-signature PD implemer ce, in which one pairset will h et will be lower than Pclass-P is recommended that PClass	P in the PSE.I an nted with single I ave a bit higher D-2P which may s_PD for dual-sig	m suggesting that in oad may be affected power than Pclass_PD- result in violation of gnature PDs that are	Comment Type TF 33.3.8.2.1, 33.3.8 signature PDs an This is continuation clauses content the SuggestedRemedy	.4 and 33.3.8.4. d dual-signature on of the work d hat we didn't rev	ent Status X 1 needs some upo PDs. one for comment #		ate between single-
than Pc violation the rem by pair- 2P and 33.3.8.7 implem	class-PD-2P and n of Pclass-PD- nedy we write: "" -to-pair unbaland I the other pairse 10. Therefore it nented with singl SC 33.3.8.1	2P per pair set and Pclass-2 Dual-signature PD implement ce, in which one pairset will h et will be lower than Pclass-P is recommended that PClass e load, may be limited to less	P in the PSE.I an nted with single I ave a bit higher D-2P which may s_PD for dual-sig s than PClass_P	m suggesting that in oad may be affected power than Pclass_PD- result in violation of gnature PDs that are D."""	Comment Type TF 33.3.8.2.1, 33.3.8 signature PDs an This is continuation clauses content the SuggestedRemedy Addopt darshan_(.4 and 33.3.8.4. d dual-signature on of the work d hat we didn't rev 09_1116.pdf	ent Status X 1 needs some upo 9 PDs. one for comment # riew.		ate between single-
than Po violation the rem by pair- 2P and 33.3.8.2	class-PD-2P and n of Pclass-PD- nedy we write: "" -to-pair unbaland the other pairse 10. Therefore it nented with singl SC 33.3.8.1 Lennart	2P per pair set and Pclass-2 Dual-signature PD implemen- ce, in which one pairset will h et will be lower than Pclass-P is recommended that PClass e load, may be limited to less P 157	P in the PSE.I an nted with single I ave a bit higher D-2P which may s_PD for dual-sig s than PClass_P	m suggesting that in oad may be affected power than Pclass_PD- result in violation of gnature PDs that are D."""	Comment Type TF 33.3.8.2.1, 33.3.8 signature PDs an This is continuation clauses content the SuggestedRemedy Addopt darshan_(Proposed Response	.4 and 33.3.8.4. d dual-signature on of the work d hat we didn't rev 09_1116.pdf	ent Status X 1 needs some upo PDs. one for comment #		ate between single-
than Pc violation the rem by pair- 2P and 33.3.8.' implem C/ 33 (seboodt, L Comment T "The PI the PD	class-PD-2P and n of Pclass-PD- nedy we write: "" -to-pair unbaland the other pairse 10. Therefore it nented with singl SC 33.3.8.1 Lennart Type TR D shall turn on a shall stay on ov	2P per pair set and Pclass-2l Dual-signature PD implemen- ce, in which one pairset will h at will be lower than Pclass-P is recommended that PClass e load, may be limited to less <i>P</i> 157 Philips	P in the PSE.I an need with single I ave a bit higher D-2P which may s_PD for dual-sig s than PClass_P L 11 I to V On_PD . A ange. The PD sh	m suggesting that in oad may be affected power than Pclass_PD- result in violation of gnature PDs that are D.""" # 244 Pres: Yseboodt2 After the PD turns on, hall turn off at a voltage	Comment Type TF 33.3.8.2.1, 33.3.8 signature PDs an This is continuation clauses content the SuggestedRemedy Addopt darshan_(.4 and 33.3.8.4. d dual-signature on of the work d hat we didn't rev 09_1116.pdf	ent Status X 1 needs some upo 9 PDs. one for comment # riew.		ate between single-
than Pc violation the rem by pair- 2P and 33.3.8.' implem C/ 33 (seboodt, L Comment T "The PI the PD	class-PD-2P and n of Pclass-PD- nedy we write: "" -to-pair unbaland I the other pairse 10. Therefore it nented with singl SC 33.3.8.1 Lennart Type TR D shall turn on a shall stay on ov an V Port_PD-2f - Is at odds v	2P per pair set and Pclass-2l Dual-signature PD implemen- ce, in which one pairset will h at will be lower than Pclass-P is recommended that PClass e load, may be limited to less <i>P</i> 157 Philips <i>Comment Status</i> X at a voltage less than or equa per the entire V Port_PD-2P re	P in the PSE.I an need with single I ave a bit higher D-2P which may s_PD for dual-sig s than PClass_P L 11 I to V On_PD . A ange. The PD sh or equal to V Off rpe 3/4 state diag	m suggesting that in oad may be affected power than Pclass_PD- result in violation of gnature PDs that are D.""" # 244 Pres: Yseboodt2 After the PD turns on, hall turn off at a voltage f_PD."	Comment Type TF 33.3.8.2.1, 33.3.8 signature PDs an This is continuatic clauses content th SuggestedRemedy Addopt darshan_C Proposed Response WFP	.4 and 33.3.8.4. d dual-signature on of the work d hat we didn't rev 09_1116.pdf	ent Status X 1 needs some upo 9 PDs. one for comment # riew.		ate between single-
than Pc violation the rem by pair- 2P and 33.3.8.' implem Cl 33 (seboodt, L Comment T "The PI the PD less that SuggestedF	class-PD-2P and n of Pclass-PD- nedy we write: "" -to-pair unbaland the other pairse 10. Therefore it nented with single SC 33.3.8.1 Lennart Type TR D shall turn on a shall stay on ov an V Port_PD-2f - Is at odds v - Allows the I	2P per pair set and Pclass-2l Dual-signature PD implemen- ce, in which one pairset will h et will be lower than Pclass-P is recommended that Pclass e load, may be limited to less P 157 Philips Comment Status X at a voltage less than or equa rer the entire V Port_PD-2P ra- P minimum and greater than with both the Type 1/2 and Ty PD to turn on at any voltage I	P in the PSE.I an need with single I ave a bit higher D-2P which may s_PD for dual-sig s than PClass_P L 11 I to V On_PD . A ange. The PD sh or equal to V Off rpe 3/4 state diag	m suggesting that in oad may be affected power than Pclass_PD- result in violation of gnature PDs that are D.""" # 244 Pres: Yseboodt2 After the PD turns on, hall turn off at a voltage f_PD."	Comment Type TF 33.3.8.2.1, 33.3.8 signature PDs an This is continuatic clauses content th SuggestedRemedy Addopt darshan_C Proposed Response WFP	.4 and 33.3.8.4. d dual-signature on of the work d hat we didn't rev 09_1116.pdf	ent Status X 1 needs some upo 9 PDs. one for comment # riew.		ate between single-
than Pc violation the rem by pair- 2P and 33.3.8.' implem Cl 33 (seboodt, L Comment T "The PI the PD less that SuggestedF	class-PD-2P and n of Pclass-PD- nedy we write: "" -to-pair unbaland the other pairse 10. Therefore it nented with singl SC 33.3.8.1 Lennart Type TR D shall turn on a shall stay on ov an V Port_PD-2F - Is at odds v - Allows the I Remedy yseboodt_02_11	2P per pair set and Pclass-2l Dual-signature PD implemen- ce, in which one pairset will h et will be lower than Pclass-P is recommended that Pclass e load, may be limited to less P 157 Philips Comment Status X at a voltage less than or equa rer the entire V Port_PD-2P ra- P minimum and greater than with both the Type 1/2 and Ty PD to turn on at any voltage I	P in the PSE.I an need with single I ave a bit higher D-2P which may s_PD for dual-sig s than PClass_P L 11 I to V On_PD . A ange. The PD sh or equal to V Off rpe 3/4 state diag	m suggesting that in oad may be affected power than Pclass_PD- result in violation of gnature PDs that are D.""" # 244 Pres: Yseboodt2 After the PD turns on, hall turn off at a voltage f_PD."	Comment Type TF 33.3.8.2.1, 33.3.8 signature PDs an This is continuatic clauses content th SuggestedRemedy Addopt darshan_C Proposed Response WFP	.4 and 33.3.8.4. d dual-signature on of the work d hat we didn't rev 09_1116.pdf	ent Status X 1 needs some upo 9 PDs. one for comment # riew.		ate between single-

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 **157** Li **37** Page 41 of 53 11/6/2016 10:34:56 AM

TDL 2.0 comment #47 pointed out that an upper limit for PClass was not clearly defined. The suggested remedy adds a secondary limit based upon Icable. (if accepted, this would OBE TDL 2.0 #47.)	omment Type T Comment Status D PD Power From the TDL, comment #383 D2.0: Yair to rewrite 33.3.8.2.2, page 157 lines 46-54 without SHALL. PD Power VaggestedRemedy Change lines 46-54 only from: "When a Type 1, Type 2, single-signature Type 3, or single-signature Type 4 PD is supplied with V Port_PSE-2P min to V Port_PSE-2P max with R Ch (as defined in Table 33-1) in series, it shall operate at PPort_PD , as defined in Table 33-28, with the ripple and noise content as defined in Table 33-28, and with the DC input operating voltage range as defined by Table 33-28.
Pro	When a dual-signature PD is supplied with V Port_PSE -2P min to V Port_PSE-2P max with R Ch (as defined in Table 33-1) in series, it shall operate at PPort_PD-2P, as defined in Table 33-28, with the ripple and noise content as defined in Table 33-28, and with the DC input operating voltage range as defined by Table 33-28." To: "Verification of a PD is achieved when PD ripple and noise content as defined in Table 33- 28 is met while the PD is powered with a voltage source set in the range of VPort_PSE-2F min to VPort_PSE-2P max with R Ch (as defined in Table 33-1) in series, and PD load is operate at or below PPort_PD_max." <i>roposed Response</i> Response Status W PROPOSED ACCEPT IN PRINCIPLE. Verification of a PD? This is about system stability. What does that mean? Also multiple language fixes: Change to text: "Verification of stability is achieved when the PD ripple and noise content as defined in Table 33-28 is met while the PD is operating at or below Pport_PD_max while being powered by a voltage source set in the range of Vport_PSE-2P (as defined in Table 33-19)

Pa **157** Li **47**

C/ 33	SC 33.3.8.3	P 158	L 24	# 247	CI 33	SC 33.3.8.4.	.1	P 160	L 5	# 33
Yseboodt,	Lennart	Philips			Bennett, k	Ken	\$	Sifos Techno	ologies, In	
Comment	Type TR	Comment Status D		PD Inrush	Comment	Туре Т	Comment St	atus X		PD Power
	[1] PDs shall til T delay-2P mi [2] The PD sl	he PD inrush section: draw less than I Inrush_PD n. hall meet the inrush requirer	_		avera The s	ge power limit be	eyond a simple P y changes the 33	Class refere 3.3.8.4.1 PC	nce. lass reference to	8.2.1 is expanding the Pport_PD max., which s. TDL 2.0 comment
							a result of this c			
redund	lant to [1].	nment the previous cycle to out there is more going on th			Existi	ng Text:				
	- [1] can only	o separate issues: be met by a PD, when it is a			define		9 and with 5% du			an TCUT-2P min, as er shall not exceed
to be c	If the PSE c compliant to [1].	loes not provide enough inru	ish current, the I	PD cannot be expected	Suggeste	dRemedy				
to be t		ement is unconditional thoug	jh.		Chang sha	ge: Il not exceed PC	lass			
rootrio		warn the PD designer that i bility at low VPSE.	t is allowed for F	SEs to have severely	to: sha	I not exceed Ppo	ort PD max			
	This was the	e reason statement [2] was a 2] is still a redundant shall to				Response	Response Sta	atus W		
Suggestea	Remedy				CI 33	SC 33.3.8.5		P 160	L 33	# 34
- Char	ge [1] to read:				Bennett, k			Sifos Techno		
until T		aw less than I Inrush_PD ar hen connected to a source t			Comment When	51	Comment St		esed in the last m	Pres: Bennet1 neeting, it was pointed
	- Remove [2]				out th	at the graphs and		eat the "sha	Ils" that exist in t	he average and peak
for det	"PSEs may s	owing to the NOTE on page source a very limited current			sugge	sted remedy ren		and related	text from 33.3.8	ced those graphs. The .5, and modifies
	- Update PIC	S PD49 and remove PD52			Suggeste					
Proposed		Response Status W			00	sennett_01_1116	6.pdf			
PROP	OSED ACCEPT.				Proposed	Response	Response Sta	atus W		
	ference to 33.2.8	3.5 (and by nesting to 33.2.8 form the PD implementer of			WFP TFTD					
	e the proposed	sentence with, mpacted by PSE current lim	its covered in 33	.2.8.5."						
				d T/technical E/editorial G/g NSE STATUS: O/open W/w		d U/unsatisfied	Z/withdrawn	Pa 1 Li 3		Page 43 of 53 11/6/2016 10:34

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

11/6/2016 10:34:56 AM

Cl 33 SC 33.3.8.10 P 164 Beia, Christian STMicroelectronics	46 # <u>30</u>	Cl 33 SC 33.3.8. Darshan, Yair	10 P 165 L 24 Microsemi	# 43
Comment Type T Comment Status D	PD Unbalance	Comment Type TR	Comment Status X	Editorial
Rsource_min and Rsource_max represent the Vin source resistance that consists of the PSE PI components (RPSI specified in 33.2.8.4.1, VPort_PSE_diff as specified in Ta 33–19, the channel resistance, and RPair_PD_min and R 33A.5). RPair_PD_min and RPair_PD_max are not part of the PS SuggestedRemedy Remove RPair_PD_min and RPair_PD_max from the des components: Rsource_min and Rsource_max represent the Vin source resistance that consists of the PSE PI components (RPSI specified in 33.2.8.4.1, VPort_PSE_diff as specified in Ta	E_min and RPSE_max as ble Pair_PD_max specified in Annex E PI components. cription on the PSE PI common mode effective E_min and RPSE_max as	where presented for a) Information that is in the annex. b) We need a set of design. We don't new spec is complete and c) Informative Annex overlooked if it conta All the above make a Annex 33A.5 to the e PI par-to-pair unbala	neeting when Annex D was suggested to be why not to do it, as follows; needed for interoperability needs to be in the requirements that will be sufficient for PSE F ed to supply the reasons for the spec numbed sufficient to guarantee interoperability. is located far after clause 33 and there is a ins information that is needed to properly de a lot of sense. Therefore I suggest to move the end of 33.3.8.10 as it is critical guidelines for nce without guessing what to do	he standard body and not PI design and PD PI ers as long as the current high chance to be esign the PD. he design guidelines from
33–19 and the the channel resistance).		SuggestedRemedy		
Proposed Response Response Status W			of Annex 33A.5 to the end of 33.3.8.10 (pag ence to annex 33A.5 with 33.3.8.10.	e 165 after line 24).
PROPOSED ACCEPT IN PRINCIPLE.		Proposed Response	Response Status W	
TFTD		TFTD		
If Rsource_min and max include Rpair_PD min and max,	this is better langauge:			
Rsource_min and Rsource_max represent the Vin source resistance that consists of the PSE PI components (RPSI specified in 33.2.8.4.1 and VPort_PSE_diff as specified ir 33–19), the channel resistance, and Rpair_PD_min and R	E_min and RPSE_max as Table			

33A.5).

If not, remove Rpair_PD from this sentence, but keep other changes.

Pa **165** Li **24**

CI 33	SC 33.3.9	P 166	L1	# 249	CI 33	SC 33.3	0	P 166	L 10	#	49		
Yseboodt,		Philips	21	# 249	Darshan,		.9	Microsemi	210	<i>π</i>	49		
Comment	Type TR	Comment Status D		PD MPS	Comment	Туре Е	Co	mment Status D			Editoria		
		shall use the I Port_MPS ass al Layer classification."	ociated with the	PD Class assigned by		in Table 33- ture PD"	33 item 1 ti	tle "input current a funct	ion of the assig	ned Class	to a single-		
	This information applies to many parameters and is clearly marked in Table 33-					ed to be "as	a"						
33. change	 33. It is not needed to repeat it here. Also, with DLL the assigned Class can change (and then the MPS value also changes) 						SuggestedRemedy Change to: "input current as a function of the assigned Class to a single-signature PD"						
Suggested	IRemedy				Proposed	Response	Res	sponse Status W					
00	ve sentence.				PROF	POSED ACC	EPT IN PR	RINCIPLE.					
	Remove PIC	CS PD82.			Change to: "input current as a function of assigned Class to a single-signature PD"								
Proposed I	Response	Response Status W			input	current as a		i assigned Class to a sil	ngle-signature	FD			
-	PROPOSED ACCEPT.					TFTD LY: Inconsistent with comment #239							
TFTD This is	-	or Table 33-33. See page 16	5 Lino 20		Use same resolution as #239 for Table 33-33								
	alues of Iport_M	IPS, IPort_MPS-2P, TMPS_P		_PD are shown in Table	<i>Cl</i> 33 Wendt, Ma	SC 33.4 atthias	.1.1.1	P 167 Philips	L 53	#	250		
If this (comment's remo	oval is accepted then also am	end the senten	ce called out to state	Comment	Type E	Co	mment Status D			Editorial		
"The v		IPS, Iport_MPS-2P, TMPS_P			"A multiport NID complying with Environment A requirements does not require electrical power isolation between link segments."								
					ls a re	ecursive stat	ement with	in this section (Environn	nent A requiren	nents).			
					Suggestee	dRemedy							
					"An E segm		A multiport	NID does not require el	ectrical power i	solation be	tween link		
						Response POSED ACC		sponse Status W					
					TFTD This is	-	and should	d be discussed.					

Pa **167** Li **53**

C/ 33 SC 33.4.3 P 169 L 15 # 290	Cl 33 SC 33.5.5 P189 L 5	# 251
Zimmerman, George CME Consulting, Aqua	Yseboodt, Lennart Philips	
Comment Type ER Comment Status D Editorial TDL #171 on D2.0 - significant digits - Table 33-35 and 33-36 frequency limits do not require the extra ".0" in the limit. This accuracy is unusual, inconsistent with the usual "3 sig fig" limit in clause 33, inconsistent with frequency limits in later tables, and inconsistent with PHY specifications and unnecessary. SuggestedRemedy Gelete ".0" from all frequency limits in tables 33-35 and 33-36 on pages 169 and 170 Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT. PROPOSED ACCEPT. PROPOSED ACCEPT. PROPOSED ACCEPT.	Comment Type TR Comment Status X Autoclass has not been properly described in 33.5.5. D2.0 TDL #232, #316, #476, #503 SuggestedRemedy Adopt yseboodt_04_1116_autoclassdll.pdf Proposed Response Response Status W WFP TFTD	Pres: Yseboodt
TFTD FS: If we want 3-sig figs then 1.0 should be 1.00 and not 1. We should discuss these changes. If we want less than 3 sigfigs for this section then we should state this in a note.	Cl 33 SC 33.7.2.3 P 192 L 5 Yseboodt, Lennart Philips Commont Turce T Commont Status D	# 252
C/ 33 SC 33.5 P 180 L 26 # 39	Comment Type T Comment Status D PICS PD Major option PDT1 is missing.	PIC
Darshan, Yair Microsemi Comment Type TR Comment Status X Pres: Darshan11 From TDL comment #214 D2.0: 33.5 Data Link Layer classification need to be updated in order to support dual-signature PD. See darshan_13_1116.pdf for concept presentation. See darshan_11_1116.pdf for proposed baseline.	SuggestedRemedy Add item PDT1. Proposed Response Response Status W TFTD Why isn't this in the published standard?	
SuggestedRemedy Adopt darshan_11_1116.pdf if ready for the meeting. If not ready, keep it in the TDL. Proposed Response Response Status W WFP TFTD	Cl 33 SC 33.7.2.3 P 192 L 18 Yseboodt, Lennart Philips Comment Type E Comment Status D PICS *PDCL: Classification for PDT1, PDT3 and PDT4 is missing. SuggestedRemedy Add Status PDT1:O, PDT3:M, PDT4:M. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Add PDT3:M, PDT4:M TFTD Why isn't Type 1 in the published standard?	# 253 PIC

Pa **192** Li **18**

Comment Type E Comment Status X Item "DLLC: DLL support is optional for Type 1, and for Type 3 PDs that request Class 3 or lower. SuggestedRemody Add Status PD TriO. Not suit ow for kith ePDT3.M thing Proposed Response Response Status W TFTD C1 33 SC 33.7.3.2 P 195 L 45 # [259 Yseboodt, Lennart Philips Comment Status D From Auguitation of a PD as specified in 33.2.7.* TFTD APICS is missing for: "Type 3 and Type 4 PSEs that will deliver power on both pairsets shall complete a connection the classification of a PD as specified in 33.2.7.* SuggestedRemody Add PICS for this shall. Proposed Response Response Status W PROPOSED ACCEPT. TFTD Add PICS for this shall. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. TFTD Add new PIC. Also, PIC PSE21 only applies if delivering 4-Pair power, how do we indicate that? Do we need a new capability (or whatever it is called)? Comment Status S PICS TFTD C.: We we adding a new requirement, shall power up a Class 4 PD as if it used Multiple-Event Physical Layer classification, and requires Note ad many PICS item PSE95a. (Note: are we adding a maintenance request between AT and BT] guess they never adding the proper Status W PICS PROPOSED ACCEPT IN PRINCIPLE. TFTD Add new PIC. Also, PIC PSE21 only applies if delivering 4-Pair power, how do we indicate that? Do we need a new capability (or whatever it is called)? Mathem PICS PSE2. Note: are we adding a new requirement to Type 2.??) Proposed Response Response Status W PICS PSE2. Note: are we adding a new requirement to Type 2.??) Proposed Response Response Status W PICS missing for pairs 12 list of 2.? Note: are we adding a new requirement to Type 2.??) Proposed Response Response Status W PICS missing for pairs 12 list we adding a new requirement to Type 2.??) Proposed Response Response Status W PICS missing for pairs 12 list we adding a new requirement to Type 2.??) Proposed Response Response Status W PICS missing for pairs 12 list we adding an ew requirement t	C/ 33 SC 33.7.2.3	P 192	L 31	# 255		C 33.7.3.2	<i>P</i> 196	L 17	# 260				
Item TUC. DLC: DLL support is optional for Type 1, and for Type 3 PDs that request Class 3 or lower. In PICS PEE28: Suggested/Renedy Add Status PDT1:0. Not sure how to fix the PDT3:M thing Proposed Response Response Status W TFTD Why isn't Type 1 listed in published standard? C/ 33 SC 33.7.3.2 P 195 L45 # [259] Comment Type E Comment Status D PICS Apposed Response Response Status W PROPOSED ACCEPT. TFTD TFTD CJ: TFTD CJ: TFTD CJ: Apposed Response Type E Comment Status D PICS A PICS is missing for: TYpe 3 and thild eliver power on both pairsets shall complete a connection check prior to the classification of a PD as specified in 33.2.7.* TFTD CJ: Add PICS for this shall. ProposeD ACCEPT IN PRINCIPLE. TFTD CJ: TFTD Add PICS for this shall. Proposed Response Status W PROPOSED ACCEPT IN PRINCIPLE. Philps Comment Type I Comment Status X PICS Not such an exceptibility (or whatever it is called)? Prove the asstilling time, shall power up a Class 4 PD as it it used Multiple-Event Physical Layer classification, and an evolutions and an abould se fuel Add Ines APIC. Also, PIC PSE	rseboodt, Lennart	Philips			Yseboodt, Lenn	art	Philips						
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Not such how to fix the PDT3:M thing Proposed Response Response Status W TFTD Why isn't Type 1 listed in published standard? C/1 33 SC 33.7.3.2 P 195 Comment Type E Comment Status D P/DOS Is missing for: TYD2 Type 3 and Type 4 PSEs that will deliver power on both pairsets shall complete a connection check prior to the classification of a PD as specified in 33.2.7.* TFTD C.3: SuggestedRemedy Add PICS for this shall. PROPOSED ACCEPT IN PRINCIPLE. TFTD Add new PIC. Also, PIC PSE21 only applies if delivering 4-Pair power, how do we indicate that? Do we need a new capability (or whatever it is called)? Comment Type T Comment Type I Camment Status X PICS missing for page 121 line 52: "A TPD Call we are status W PICS missing for page 121 line 52: "Add new PIC. Also, PIC PSE21 only applies if delivering 4-Pair power, how do we indicate that? Do we need a new capability (or whatever it is called)? Comment Type T Comment Type I PSE54. Add this shall to new PICS item PSE95a. (Note: are we adding a new requirement to Type 2 ??) Proposed Response Response Status W TFTD This was added as a maintenance request between AT and BT I guess they never adding a new requirement to Type 2 ??) <td>SuggestedRemedy</td> <td></td> <td></td> <td></td> <td>÷</td> <td></td> <td>E-2P wrong, this should be V</td> <td>OC.</td> <td></td>	SuggestedRemedy				÷		E-2P wrong, this should be V	OC.					
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TFTD This was added as a maintenance request between AT and BTI guess they never add					Proposed Resp	onse	Response Status W						
					TFTD		·						
a PIC for it.					This was ac a PIC for it.		naintenance request betweer	n AT and BT…I g	guess they never added				

Pa **201** Li **27**

Cl 33 SC 33.7.3.3 Yseboodt, Lennart	P 205 Philips	L 30	# 263		C/ 33 Yseboodt,	SC 33.7.3.3 Lennart	P 205 Philips	L 36	# 265			
Comment Type E	Comment Status D			PICS	Comment	Туре Т	Comment Status D		PICS			
A PICS is missing for "The PD shall conform SuggestedRemedy	page 149, line 32 n to the assigned Class, rega	dless of the Clas	s it requested."		"A sir	ngle-signature P	vo PICS are missing for D shall include Cport a shall include CPort-2P	is defined in Table				
Add PICS item PD21t)				Suggested	dRemedy						
Proposed Response	Response Status W				Add to	PICS, unless K	en's baseline no longer l	has this shall.				
TFTD					Proposed PROP	Response POSED ACCEPT	Response Status W	I				
See 264												
C/ 33 SC 33.7.3.3	P 205	L 36	# 264		TFTD							
Yseboodt, Lennart	Philips				Ken, c	does your baselir	ne still have this shall?					
Comment Type T	Comment Status D			PICS	C/ 33	SC 79	P 208	L 2	# 42			
PICS missing for page	e 151, line 49.				Darshan, `	Yair	Microser	ni				
SuggestedRemedy Add PICS.					Comment (TDL f	<i>Type</i> TR for comment #23	Comment Status X 7 from D2.0)		Pres: Darshan5			
Proposed Response TFTD See 263	Response Status W				If PSE issues only single class event due to power limitations, it does not know what the PD physical advertised class is. DLL also doesn't have this information by the TLVs. If after some time PSE has a power budget > class 3, and the PD wants more using DLL,							
Are these two stateme	ents redundant?				the PE to kno	D can't require m w how much mo	ore power since DLL door re power he can ask for. add to TLVs information	esn't have the physic	al PD class information			
1. The PD shall confo	orm to the assigned Class, rec	gardless of the C	lass it requested.		Suggested			,,,,				
2. Type 3 and Type 4 PDs shall conform to the electrical requirements as defined by Table						See darshan_05_1116.pdf.						
33–31 for the level de	fined in the pse_power_level	state variable.			Proposed	Response	Response Status W	1				
Pse_power_level is ju	st a proxy for assigned class.				, WFP		,					
•					TFTD							

Pa **208** Li **2**

CI 79 SC 79	.3.2.2	P 219	L 36	# 283		CI 33	SC	79.3.2.6d	P 2 :	24	L 12	# 41	
Yseboodt, Lennart		Philips				Darshan, `	Yair		Micros	semi			
Comment Type	TR Comm	nent Status X		L	LLDP	Comment	Туре	TR	Comment Status	Х			LLDF
The b	ase standard als	3 refer to fields tha so has this issue. ent wrong when 802		-		The te "Using maxim	ext says g the Au num pov	itoclass fiel wer consum	ld to trigger a new A nption." rries to specify some				change
Proposed Response TFTD as reques		nse Status W				a)lt is b)Wha	not clea at is the	ar who is in timing seq				surement?	
C/ 79 SC 79 Darshan, Yair)	P 223 Microsemi	L 6	# 84		d)Whe e)Whe	en to me ere is th	ise power? easure? le final Ackı missing.	nowledge?				
Comment Type	TR Comm	nent Status X		Pres: Darsh	an12	Suggested		Ū					
signature. The PSE knows	ignature state ma	achine needs to kno through physical la information or by ot	yer tests howeve	-	the	00	s part of Respor	the TDL fo	or comment #232 D2 Response Status		ennart:)		
SuggestedRemedy	emedy in darsha					<i>Cl</i> 79 Schindler,		79.3.8.2	P 2: Seen		L 9 Cisco, T	# 130	
Proposed Response	e Respor	nse Status 🛛 🛛 🛛 🛛 🛛 🗤				Comment	Туре	TR	Comment Status	х			LLDF
WFP TFTD							proces		(Lennart?) needs to d. For example what				
CI 79 SC 79	.3.2.6d	P 224	L 9	# 129		Suggested	dRemed	ły					
Schindler, Fred		Seen Simply,	Cisco, T			Create	e a TDL	to correct	this concern.				
Comment Type	TR Comm	nent Status X		L	LLDP	Proposed	Respor	nse	Response Status	w			
		?) needs to comple example what does			V	TFTD							
SuggestedRemedy													
Create a TDL to	correct this con	cern.											
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TFTD

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

Pa **227** Li **9**

SC 79.3.8.1	<i>P</i> 227 Cisco	L 17	# 100		C/ 33 Darshan, Y		33A.5		P 234 Microsemi	L 17	#	44
be TR	Comment Status D	ough 650002 1			Comment	Туре	TR			28 and up to P(Pres: Darshai
	ollage measurement is i thi	ough 05000 ! I	This implies 05V at t		require	ment w	/ill be nee	eded to not exe	ceed ICon-2P_	unb by means c	of smaller	constants
5000 to 57000						•	•		equations and	d constants for c	class 6 ar	nd 8 for
sponse SED REJECT.	Response Status W				To add	I to the	spec the	equations for	extended powe	er for class 6 and	d 8 and n	nodify the
		er than 57, why	would we not allow	the	Suggested	Remed	y _y					
:										g. If not ready ad	dd to TDL	
ysical limit. Th					WFP	(espon	36	Responses	Status W			
	D is not responsible for provi	ding its voltage	Why should we		TFTD							
					C/ 33A Yseboodt,				P 239 Philips	<i>L</i> 1	#	270
SC 79.3.8.2	P 228 Cisco	L 42	# 101				ER h of comr			s 1 and 2.		Editor
be TR	Comment Status D	brough 650002			editing			aner to replace	Annex 33A ra	hter than convol	ute it with	n significant
					00		,	3A" at the beg	inning of the A	nnex.		
-								•	•			
sponse	Response Status W				PROP	OSED /	ACCEPT.					
SED REJECT.							place it. /	Add all lennar	s comments o	n the subiect to	Yair's TD	L (I wrote
		er than 57, why	would we not allow	the			•					- (*
: se, this number	could be 60V, as that is the SELV.	absolute max a	allowed at the PI be	free								
	es for the PD v emedy 5000 to 57000 sponse ED REJECT. ause PSEs aren the PSE that if : needs to explay sical limit. Thi ot true. e DNA: The PI from telling a P at is higher? SC 79.3.8.2 De TR les for the PSE emedy 5000 to 57000 sponse ED REJECT. ause PSEs aren eport a higher v	eres for the PD voltage measurement is 1 three ermedy 5000 to 57000 sponse Response Status GED REJECT. ause PSEs aren't supposed to supply greated the PSE that its voltage is higher? : needs to explain to me why it's ok to have ysical limit. This implies to me that it's OK to the true. e DNA: The PD is not responsible for provider for metiling a PSE that the voltage is too high at is higher? SC 79.3.8.2 P 228 Cisco Dee TR Comment Status D les for the PSE voltage measurement is 1 the emedy 5000 to 57000 sponse Response Status W SED REJECT. ause PSEs aren't supposed to supply greated point a higher voltage?	be TR Comment Status D es for the PD voltage measurement is 1 through 65000? T emedy 5000 to 57000 sponse Response Status W GED REJECT. ause PSEs aren't supposed to supply greater than 57, why the PSE that its voltage is higher? : needs to explain to me why it's ok to have an upper limit s ysical limit. This implies to me that it's OK to provide more sysical limit. This implies to me that it's OK to provide more of true. e DNA: The PD is not responsible for providing its voltage from telling a PSE that the voltage is too high or that it is p at is higher? SC 79.3.8.2 P 228 L 42 Cisco be TR Comment Status D es for the PSE voltage measurement is 1 through 65000? emedy 5000 to 57000 sponse Response Status W GED REJECT. ause PSEs aren't supposed to supply greater than 57, why eport a higher voltage?	the TR Comment Status D tes for the PD voltage measurement is 1 through 65000? This implies 65V at the source of the PD voltage measurement is 1 through 65000? This implies 65V at the source of the PD voltage measurement is 1 through 65000? 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This implies to me that it's OK to provide more than 57V. This is th true.TFTDis is the restCiscoTFTDSC 79.3.8.2P 228L 42101CiscoCiscoLLDPthe es for the PSE voltage measurement is 1 through 65000? This implies 65V at the immedyStore the PSE voltage measurement is 1 through 65000? This implies 65V at the medyStore the PSE voltage measurement is 1 through 65000? This implies 65V at the suggested Remed Add "ReplaceseponseResponse StatusWSED REJECT.Wause PSEs aren't supposed to supply greater than 57, why would we not allow the sponseTFTD YD: Dissagre to re 33A.1 it and I	per TR Comment Status D LLDP per se for the PD voltage measurement is 1 through 65000? This implies 65V at the send of the PD voltage measurement is 1 through 65000? This implies 65V at the send of the PD voltage measurement is 1 through 65000? This implies 65V at the send of the SEC REJECT. Comment Type TR suse PSEs aren't supposed to supply greater than 57, why would we not allow the the PSE that its voltage is higher? 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ALFA and BETA in the equation RPE to the PSE status W SED REJECT. To add to the spec the equations for above text accordingly. SuggestedRemedy Adopt darshan_04_1116.pdf if ready Proposed to supply greater than 57, why would we not allow the the PSE that its voltage is too high or that it is plugged into an AUX at is higher? TFTD 2 2 P228 L42 # 101 2 Cisco LLDP Comment Type ER Comment Type Comment Type TFTD 2 Cisco LLDP TFTD Comment Type TFTD TFTD 2 Cisco LLDP LLDP TFTD That e a bunch of comments on Anne It will be cleaner to replace editing instructions. 3 Stop Response Status W SuggestedRemedy Add "Replace Annex 33A" at the beg 4 Model Comment Status D LLDP SuggestedRemedy Comment Type Response Status W See TR Comment Status D LLDP LLDP	be TR Comment Status D LLDP es for the PD voltage measurement is 1 through 65000? This implies 65V at the immedy So00 to 57000 For PD power above the values shown in Table 32 requirement will be needed to not exceed ICon-2P_ALFA and BETA in the equations for extended power as well. immedy immedy is ok to have an upper limit set well above the sysical limit. This implies to me that it's OK to provide more than 57V. This is the true. To add to the spec the equations for extended power above that accordingly. immedy SC 79.3.8.2 P 228 L 42 101 Cisco It will be cleaner to replace Annex 33A are deting instructions. is porse Response Status D LLDP is for PD source and the post of the specifies of the post of	Provide TR Comment Status D LLDP es for the PD voltage measurement is 1 through 65000? This implies 65V at the meddy "For PD power above the values shown in Table 33.28 and up to PI 5000 to 57000 sponse Response Status W sED REJECT. will be needed to not exceed to constants for constants for constants of the PSE that its voltage is higher? in needs to explain to me why it's ok to have an upper limit set well above the ysical limit. This implies to me that it's OK to provide more than 57V. This is it rule. To add to the specer Response Status W ge DNA: The PD is not responsible for providing its voltage. Why should we tor tore the PSE voltage measurement is 1 through 65000? This implies 65V at the Cisco TETD SC 79.3.8.2 P 228 L 42 # 101 Cisco LLDP es for the PSE voltage measurement is 1 through 65000? This implies 65V at the meddy SC 79.3.8.2 P 228 L 42 # 101 Cisco LLDP Comment Type ER Comment Status D I have a bunch of comment 30A sections 1 and 2. Response Status W Sco 79.00 Sponse Response Status W PROPOSED ACCEPT. Stop ER ECT. will be cleaner to replace it. Add all lennarts comments on the subject to 33A.1 it and I can adress all the comments).	be TR Comment Status D LLDP es for the PD voltage measurement is 1 through 65000? This implies 65V at the medy Soud to 57000 Soud to 57000 sponse Response Status W ED REJECT. LLDP use PSEs aren't supposed to supply greater than 57, why would we not allow the the PSE that its voltage is higher? To add to the spec the equations for extended power for class 6 and 8 and n above text accordingly. sponse Response Status W To add to the spec the equations for extended power for class 6 and 8 and n above text accordingly. sponse Not the PSE that its voltage is higher? To add to the spec the equations for extended power for class 6 and 8 and n above text accordingly. suggestedRemedy To add to the spec the equations for extended power for class 6 and 8 and n above text accordingly. suggestedRemedy To add to the spec the equations for extended power for class 6 and 8 and n above text accordingly. suggestedRemedy To add to the spec the equations for extended power for class 6 and 8 and n above text accordingly. suggestedRemedy Status W st true. ED Main Text PD is not responsible for providing its voltage. se DNA: The PD is not response Status D LLDP Cisco LLDP se of the PSE voltage measurement is 1 through 65000? This implies 65V at the medy

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

Pa **239** Li **1**

C/ 33A SC 33A.1 P 239 L 33 # 273 Yseboodt, Lennart Philips	C/ 33A SC 33A.1 P 241 L 1 # 276 Yseboodt, Lennart Philips
Comment Type T Comment Status D Annex	Comment Type ER Comment Status X Anne
"If Zo_ps < Zo_ser and V Port is kept to V Port min and V Port max as defined in Table 33- 11 during dynamic load changes from 10 Hz to 100 kHz, then the value of Zo_ps is not limited."	Figure 33A-3 uses no less than 3 different font sizes, and fonts in one Figure. It is also unclear if the Z_ser @ frequency=0 belongs to that bottom line, or belongs to the range at the bottom.
V_Port needs to be V_Port-2P	SuggestedRemedy
SuggestedRemedy	I will venture a guess here and predict this is a Yair Figure from the .af days.
Change to V_Port-2P	TFTD - what does this Figure mean & how can we draw it better ? In any case, fix font size/type.
Proposed Response Response Status W	Proposed Response Response Status W
PROPOSED ACCEPT.	TFTD
TFTD YD:	Possible OBE by 275.
Remedy is OK but the table is 33-19 and not 33-11.	C/ 33B SC 33B P 245 L 1 # 286
Cl 33A SC 33A.1 P 240 L 24 # 275	Yseboodt, Lennart Philips
Yseboodt, Lennart Philips	Comment Type ER Comment Status X Pres: Ysebood
Comment Type ER Comment Status X Annex	Annex 33B, p245, line 18 says:
"See Figure 33A-2 for the test setup and Figure 33A-3 for the test requirements." Where do I begin ?	"Current unbalance requirements (R PSE_min , R PSE_max and I Con-2P-unb) of a PSE shall be met with R load_max and R load_min as specified by Table 33B-1."
These figures have a number of issues. The biggest one is that they are not used, nor described. There is no text at all that tells what to do with it.	This is a KEY requirement for PSEs to meet. It is the essence of 4-pair unbalance, and the counterpart of the PD requirement in 33.3.8.10.
33A-3, describes "test requirements". But is just a figure.	This requirement should not be lurking in an Annex, where it may get overlooked, this needs to be in the main text.
With an X axis in KHz but no values anywhere.	SuggestedRemedy
SuggestedRemedy	Adopt yseboodt_05_1116_annex33b.pdf.
- Remove quoted text and Figures 33A-2 and 33A-3.	This baseline will endeavor to:
Proposed Response Response Status W TFTD	 Move the requirements into 33.2.8.4.1 'Unshall' some text in 33B that should not be a requirement, but informative Make Annex 33B an informative Annex if possible
TFTD YD: Don't remove the quoted text and Figure. To add it to Yair's TDL to adress this comment to tie the figures to the text.	Proposed Response Response Status W WFP
	TFTD

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Page, Line Pa **245** Li **1**

Imment Type TR Comment Status X Annex The text "A compliant unbalanced load, Rload_min and Rload_max, consists of the Image: Complexity of the status of	Comment Type TR Comment Status X Pres: Lukac
channel (cables and connectors), the PD effective resistances, and the PSE PI effective resistance." Is not fully acurate after removing part of the text in D2.1.	(TDL #231 Lukacs, Miklos) Annex 33c objective is to supply informative data regarding the timing relationships between detection and connection check as function of CC_DET_SEQ variable options. After reviewing it, it seems to supply also information regarding if classification must be
gestedRemedy Change from: "A compliant unbalanced load, Rload_min and Rload_max, consists of the channel (cables and connectors), the PD effective resistances, and the PSE PI effective resistance." To: "A compliant unbalanced load, Rload_min and Rload_max, consists of the channel (cables and connectors), the PD PI effective resistances, and a portion of PSE PI effective resistance."	 done in parallel when dual-signature PD is detected and Class_4PID_mult_events_sec is TRUE which is not necessarily correct. Staggered classification can be done regardless if it is single or dual signature PD and staggered classification can be done regardless if it is Class_4PID_mult_events_sec is TRUE or FALSE. In addition, in all drawings, PWRUP starts at the same time while in dual-signature or ever single signature, PWR_UP can be done in different times. SuggestedRemedy
TFTD This sentence doesn't make sense to me. How does a compliant load include part of the PSE PI effective resistance?	Update drawing to address the following points: a)In dual-signature classification can be done in parallel or in staggered way. See example in figure 33C-2, 33C-5 that classification is in parallel and can be also staggered. Or add note saying "The drawing show one option to classification and POWER_ON timing. Staggered classification and POWER_ON can be done." b)Scan all drawing in Annex 33C and repeat the fix if required.
3 SC 33C.1 P 251 L 14 # 106	Proposed Response Response Status W
acs, Miklos Silicon Labs	WFP
ment Type TR Comment Status X Pres: Lukacs1	TFTD
The text and figures suggest at multiple places that based on the value of State Machine variables classification must be done in parallel on both alternatives when dual-signature PD is detected.	Cl 33 SC 33C.1 P 251 L 14 # 107 Lukacs, Miklos Silicon Labs Silicon Labs
<i>gestedRemedy</i> Classification can optionally be done staggered also for dual signature PDs. See presentation "Remedies for comments against Annex 33C"	Comment Type TR Comment Status X Pres: Lukac The figures suggests at multiple places that Power On must be done in parallel on both alternatives.
oosed Response Response Status W WFP	SuggestedRemedy Staggered Power On can be implemented. See presentation "Remedies for comments against Annex 33C"
TFTD	Proposed Response Response Status W WFP
	TFTD

Pa **251** Li **14**

C/ 33	SC 33C.2	P 2	55	L 20	#	105
Lukacs, N	liklos	Silico	n Labs			
Comment Figure	51	<i>Comment Status</i> g TCLE1 label and ar	~	ne for Figure	33C-13	Pres: Lukacs1
00	dRemedy presentation "Ren	nedies for comments	against Ar	nex 33C"		
Proposed WFP	Response	Response Status	W			

TFTD

Pa **255** Li **20**