C/ FM	SC FM	P 19	L 13	# 1	C/ FM	SC FM		P 5	L 1	# 4
Abramsor	n, David	Texas Instrun	nents		Anslow, P	ete		Ciena		
Comment "devic	<i>Type</i> ER ces or networks. i	Comment Status D mplement-"		Editorial	Comment 802.3	<i>Type</i> E bn and 802.3t	Com z are now	ament Status D		Editorial
Suggeste	dRemedy				Suggested	dRemedy				
Capit	alize the start of a	a sentence. "devices or netwo	orks. Implement	_"	Chang Chang	ge "IEEE Std a ge "IEEE Std a	802.3bn™- 802.3bz™-2	20xx" to "IEEE Std 8 20xx" to "IEEE Std 8	802.3bn™-2016" 802.3bz™-2016"	
Proposed	Response	Response Status W			Proposed	Response	Resp	onse Status W		
PRU	POSED ACCEPT				PROF	OSED ACCE	PT.			
<i>Cl</i> 00 Anslow, P	SC 0 Pete	<i>P</i> Ciena	L	# 2	C/ 1	SC 1.4.38	1a	P 20	L 35	# 5
Comment	Type ER	Comment Status D		Editorial	Alisiow, F		0			
The " and d chang Suggeste	Draft 2.1 difference loes not show cha ges made to the c dRemedy	ce to Draft 2.0 compare file " anges to the rest of the draft. Iraft much more onerous for t	only contains cl This makes the he reviewers.	nanges to Clause 33 work of reviewing the	"single by 802 http://v	e-signature PI 2.3bp accordin www.ieee802. means that th	D" comes b ng to the ru org/3/WG_	efore "1.4.381a sing les in: tools/editorial/requir	le twisted-pair co ements/words.htr 1 4 381aa as per	pper cable" as inserted
Includ	de all of the draft i	in the compare file.			agains	st D2.0 (comn	nent #136 v	vas incorrect in this	regard).	
Proposed	Response	Response Status W			Suggested	dRemedy				
PROF	POSED ACCEPT	•			Chang "Inser	ge the editing t 1.4.381aa be	instruction efore 1.4.38	to: 31a "single twisted-p	air copper cable"	(as inserted by IEEE
C/ FM	SC FM	P3	L 23	# 3	Std 80 Renur	02.3bp-2016) mber the new	as follows: definition to	o 1.4.381aa		
Comment	<i>Type</i> E	Comment Status D		Editorial	Proposed PROF	Response POSED ACCE	Resp PT.	onse Status W		
For ex 802.3 follow	xample "A full dup is comprised of t	the following" should be "Il	e 802.3 Framei d in 1997. " is m EEE Std 802.3 i	s composed of the	<i>Cl</i> 30 Anslow, P	SC 30.9.1 ete	.2.1	<i>P</i> 30 Ciena	L 47	# 6
S <i>uggeste</i> Upda	<i>dRemedy</i> te the frontmatter	to the latest version.			<i>Comment</i> The cl	<i>Type</i> E hanges in 30.9	<i>Com</i> 9.1.2.1 hav	nment Status D e no corresponding	editing instructior	Editorial
Proposed PROF	Response POSED ACCEPT	Response Status W			Suggested Add a	<i>dRemedy</i> n appropriate	editing inst	ruction		
					Proposed PROF	Response POSED ACCE	Resp PT.	onse Status W		

Cl 30 Anslow, Pe	SC 30.12.2.1.	18aa	P 36 Ciena	L 4	# 7		C/ 33 Anslow. Pe	SC 33.1.3	P 53 Ciena	L 20	# 9
Comment	Type ER	Comment	Status D			Editorial	Comment	Type TR	Comment Status X		Pres: Jones1
the ins http://v "The c	erted clause nun www.ieee802.org, haracter ".z" is fo	hbering does /3/WG_tools/ Ilowed by ".z	not conform wi editorial/require 1", ".z2", and s	th the rules in: ements/words.htn o on."	nl#numb		1.2.6 s exact, This m maxim	ays: "Unless oth with the numbe eans that a par	herwise stated, numerical lir r of significant digits and tra ameter maximum of 0.1 has	nits in this standa iling zeros having s exactly the sam	ard are to be taken as no significance." e meaning as a
Suggested In the throug renum 30.12.2	IRemedy editing instructior h 30.12.2.1.18z4 ber 30.12.2.1.18z 2.1.18z4 Response	n, change "30 " aa through 30 Response	0.12.2.1.18a thr 0.12.2.1.18ad to Status W	ough 30.12.2.1.1 b be 30.12.2.1.18	8ad" to "30.1 z1 through	2.2.1.18a	The ne A lead in the o manua There loop re	w text in 33.1.3 ng zero would t draft are in front I). What signific are many trailin sistance for Typ	says "Leading and trailing a be 0100 rather than 100. As of the decimal point for nur ance do these leading zero g zeros in the draft, for exan be 1 is "20.0" ohms. Follow	zeros have signifi far as I can see, nbers less than 1 s have? nple the Channel ing 1.2.6, this wo	cance". the only leading zeros (as per the IEEE style pairset maximum DC uld be a limit of exactly
PROP	OSED ACCEPT.	Response					20 ohn what s	ns. 33.1.3 says gnificance it ha	that the single trailing zero s. Does it mean that a resist	has significance, stance of 20.049	but it is entirely unclear is compliant? (This was
Cl 30 Anslow, Pe	SC 30.12.3.1.	18aa	<i>P</i> 44 Ciena	L 44	# 8		the ass If the a trailing	sumption that so nswer is that no zeros have sign	ome people were making the o value above 20 ohms is con nificance and all trailing zero	at led to the intro ompliant, then 33 os should be rem	duction of 1.2.6.) 1.3 should not state that oved from Clause 33.
Comment the ins http://w "The c Suggested In the throug renum 30.12.: Proposed I PROP OBE b	Type ER serted clause nun www.ieee802.org, haracter ".z" is fo <i>IRemedy</i> editing instructior h 30.12.3.1.18z4 ber 30.12.3.1.18z4 <i>Response</i> OSED ACCEPT by 172	Comment obering does (3/WG_tools/ illowed by ".z a, change "30 a through 30 <i>Response</i> IN PRINCIPL	Status D not conform wi editorial/require 1", ".z2", and s 0.12.3.1.18a thr 0.12.3.1.18ad to Status W E.	th the rules in: ements/words.htn o on." ough 30.12.3.1.1	nl#numb 8g" to "30.12 z1 through	Editorial .3.1.18a	If the a 33.1.3 In sum Suggested Either: Remov Or: Modify Proposed I TFTD WFP	nswer is that th has to be modif mary: either rer <i>Remedy</i> re the statemen e all trailing zero 33.1.3 to state <i>Response</i>	e trailing zero modifies the I fied to state what the signific nove trailing zeros or if they t "Leading and trailing zeros os from Clause 33 in the dra what the significance of lead <i>Response Status</i> W	Imit away from ei cance of the trailin are retained, sta have significanc ft. ding and trailing a	kactly 20 onms, then ng zeros is. te what they mean. e" from 33.1.3 and zeros is.
							C/ 33 Anslow, Pe	SC 33.1.4.1	P 54 Ciena	L 54	# 10
							Comment ⁻ As poir referer	<i>Type</i> E nted out by Con nce	Comment Status D nment #172 against D2.0, "A	Annex A" in footn	<i>Editorial</i> ote 1 should be a cross-
							Suggested Make i	<i>Remedy</i> t a cross-refere	nce		
							Proposed I PROP	Response DSED ACCEPT	Response Status W		

CI 33	SC 33.2.7	P 108	L 20	# 11	C/ 79	SC 7	9.3	P 218	L 1	# 14
Anslow, P	ete	Ciena			Anslow, P	ete		Ciena		
Comment	Type ER	Comment Status D		Editorial	Comment	Туре	ER	Comment Status D		Editorial
The II "Rang becau	EEE style manu ges should repe use they can be	ual includes: eat the unit (e.g., 115 V to 125 V misconstrued as subtraction s	V). Dashes shou igns."	ıld never be used	Comn Chang 2016)	nent #185 ge the edi as follow	5 against iting instru vs:" has no	D2.0 was ACCEPT, but was uction to: "Change Table 79 ot been done.	s not fully imple -1 (as modified	mented: by IEEE Std 802.3br-
Suggeste	dRemedy				Suggestee	dRemedy				
In Tat	ole 33-15, chan	ge "1 – 39" to "1 to 39" and so	on.		Chang	ge the edi	iting instru	uction to: "Change Table 79	-1 (as modified	by IEEE Std 802.3br-
Proposed	Response	Response Status W			2016)	as follow	'S:"			
PROF	POSED ACCEP	РТ.			Proposed PROF	Respons POSED A	e CCEPT.	Response Status W		
Cl 33 Anslow P	SC 33.2.7.2	2 <i>P</i> 112 Ciena	L 1	# 12	C/ 79	SC 7	9.5.2.1	P 235	L 10	# 15
Commont		Commont Status D		Editorial	Anslow, P	ete		Ciena		
	iype E eading for Tabl	Comment Status D	on the second i	Eulloria	Comment	Туре	Е	Comment Status D		Editorial
Suggeste	dRemedy			Jun.	As po text in	inted out the base	by comm standard	ent #167 against D2.0, the of the second s	change to 79.5.	2.1 is not correct as the
Place	the cursor at th	ne end of table title on first pag	e. Then click on	the Variables Tab and	Suggested	dRemedy	,			
Insert Proposed	Response	Response Status W			Remo line 10	ve the ed	liting instr	ruction on line 5 and also rei	move the "e" in	strikethrough font on
PROF	POSED ACCEP	РТ.			Proposed	Respons	е	Response Status W		
C/ 33	SC 33.7	P 191	L 2	# 13	PROF	POSED A	CCEPT.			
Anslow, P	ete	Ciena			C/ 33	SC 3	3.3.3.15	P 144	L 33	# 16
Comment	Type ER	Comment Status D		Editorial	Beia, Chri	stian		STMicroelectr	onics	
Comr	nent #180 agair	nst D2.0 was ACCEPT, but wa	s not fully imple	mented:	Comment	Type	F	Comment Status D		Editorial
Chang	ge "DTE Power	via MDI" to "Data Terminal Eq	uipment (DTE)	Power via Media	This p	aragraph	should b	e placed before the description	tions of constar	ts and variables where
Suggasta	dPomodu		changed to 55.1	i nas not been done.	the ge	eneric Mo	de desigr	nator M is also used.		
Chan	an "DTE Power	via MDI" to "Data Terminal Fo	uinment (DTE)	Power via Media	Suggestee	dRemedy				
Deper	ndent Interface	(MDI)" in the title of 33.7			move	paragrap	h 33.3.3.	15 right after 33.3.3.1		
Proposed	Response	Response Status W			Proposed	Respons	e	Response Status W		
PROF	POSED ACCEP	PT.			PROF	OSED A	CCEPT.			

C/ 33 Beia, Christia	SC 33.2.5.9 an	P 82 STMicroelecti	L 46 ronics	# 17	<i>Cl</i> 33 Beia, Chri	SC stian	33.2.5.12	P 90 STMicroelecti	L 28 ronics	# 19
Comment Ty These ne Type3 a	vpe E ormative sente nd Type4 Varia	Comment Status D ences are misplaced, since the ables definition	ey have more g	PSE SD eneral scope than just	<i>Comment</i> Figure Exit p	<i>Type</i> e 33-15 oint for t	E this page's	Comment Status D state diagram state is A and	d not IDLE	PSE SD
SuggestedR	emedy				Suggeste	dRemea	ly			
move the	e following sen	tences to 33.2.7 as sixth par	agraph (D2.1 pa	ge 106 line 18):	Repla	ce IDLE	with A as	the label of the exit point of	f figure 33-15 or	n page 91
Type 1 a of suppo Type 3 a of suppo transition	and Type 2 PS orting. and Type 4 PS orting between	Es shall issue no more class Es shall issue no more class the most recent time VPSE v power up states	events than the events than the vas at VReset fo	Class they are capable Class they are capable r at least TReset and a	Proposed PROF OBE	Respor POSED by 167	ase ACCEPT I	Response Status W N PRINCIPLE.		
Proposed Re	esponse SED ACCEPT	Response Status W IN PRINCIPLE.			<i>Cl</i> 33 Beia, Chri	SC stian	33.2.5.12	P 93 STMicroelect	L 6 ronics	# 20
TFTD wi My sugg	here these sen estion: Page	tences should go. 110, line 15. (although Type ⁻	1 is out of place	in multi-event)	Comment Figure The a Suggeste	: <i>Type</i> e 33-16 .rc betwe d <i>Remec</i>	ER een ENTR` //	Comment Status D	s wasn't there in	PSE SD the original Visio file.
C/ 33	SC 33.2.5.12	P 89	L 3	# 18	Remo	ve the a	arc betwee	n ENTRY_PRI and IDLE_PI	RI states.	
Beia, Christia	an	STMicroelect	ronics		Proposed	Respor	ise	Response Status W		
Comment Ty	vpe E	Comment Status D		PSE SD	PROF	POSED	ACCEPT.			
Figure 3 Entry po	3-15 int for IDLE sta	ate is A and not IDLE			TFTD	1				
SuggestedR Replace	<i>emedy</i> IDLE with A a	as the label of the entry point	of state IDLE		That a	arc was	not there,	out was there for the SEC a	lternativewas	there a reason for this?
Proposed Re	esponse SED ACCEPT	Response Status W IN PRINCIPLE.								
OBE by	167									

C/ 33 SC 33.2.6	P 101	L 22	# 21	C/ 33	SC :	33.2.7.2	P 112	L 13	# 23
Beia, Christian	STMicroelectron	ics		Beia, Chris	tian		STMicroele	ectronics	
Comment Type T	Comment Status D		PSE Detection	Comment	Туре	TR	Comment Status D		PSE Class
the transition between 2-pa 33.2.8.1 are met	air and 4-pair power is possi	ble only if the c	onditions defined in	Table : Tcle1 :	33-17 spec on	ly applies	to Type2 PSEs		
SuggestedRemedy				Suggestea	Remed	ly			
replace: When a PSE is already in	POWER_ON, it is allowed to	o transition betw	veen 2-pair and 4-pair	Table Remov	33-17 It /e "3,4"	em 12 Tcl from colu	e1: mn PSE Type		
power without redoing dete	ection as described in 33.2.8	.1.		Proposed	Respon	se	Response Status W		
with:				PROP	OSED /	ACCEPT.			
When a PSE is already in 4-pair power without redoir	POWER_ON, it may be alloring detection if the conditions	wed to transitio	n between 2-pair and 3.2.8.1 are met.	C/ 33	SC :	33.3.3.5	P 136	L 5	# 24
Proposed Response R	Response Status W			Beia, Chris	tian		STMicroele	ectronics	
PROPOSED REJECT.				Comment	Туре	т	Comment Status D		PD Class
33.2.8.1 explains when the referring to (not the other o	e transition is allowed or not. operating conditions listed in	That is what th 33.2.8.1).	nis sentence is	NOTE signati 33–31 Tclass	2—In g ure for a _ _PD is	general, the any DO_Cl a range, s	ere is no requirement for a _ASS_EVENT duration le o it should be replaced wi	a PD to respond w ess than TClass_P ith its max value.	vith a valid classification 'D as defined in Table
IFID				Suggested	Remed	ly			
C/ 33 SC 33.2.7.2 Beia, Christian	P 112 STMicroelectron	L 8 ics	# 22	Modify NOTE signati	Note 2 2—In g ure for a	as follows general, the any DO_Cl	:: ere is no requirement for a _ASS_EVENT duration le	a PD to respond v ess than TClass_F	vith a valid classification 2D max as defined in
Comment Type TR	Comment Status D		PSE Class	Table	33–31.				
Single-Event Physical Lay	er classification timing speci	fication also ap	plies to Type2 PSEs	Proposed PROP	Respon OSED I	se REJECT.	Response Status W		
Table 33-17 Item 10 Single Add "2" to column PSE Ty	e-Event Physical Layer class	ification timing		Tclass	_PD on	ily has a m	ax value, so it is not a rai	nge.	
Proposed Response R	Response Status W			C/ 33 Beia, Chris	SC : stian	33.3.3.10	P 141 STMicroele	L 46 ectronics	# 25
				Comment	Туре	Е	Comment Status D		PD SD
See 208				Figure The ex	33-32 tit condi	itions from	DLL_ENABLE state diffe	er from the original	I Visio file
IFID				Suggestea	Remed	ly			
				Replac and ex	ce exit c it condi	ondition to	P1 with pse_dll_power_: with pse_dll_power_type:	type=1 (it is pse_p >1 (it is pse_powe	oower_type=3 in D2.1), er_type>3 in D2.1)
				Proposed	Respon	SE	Response Status W		
				FNUF					

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

C/ 33 SC 33.3.6.1 P149 L 43 # 26 C/ 33 P 158 L35# 29 SC 33.3.8.3 Beia, Christian Beia. Christian STMicroelectronics **STMicroelectronics** Comment Type т Comment Status X **F**ditorial Comment Type ER Comment Status D **F**ditorial Despite of the title, 33.3.6.1 deals with both single and multiple-event class signature. Input inrush currents at startup, Ilnrush PD and Ilnrush PD-2P, as defined in Table 33-19.... SuggestedRemedy Ilnrush PD and linrush PD-2P are defined in table 33-31 Merge 33.3.6.1 and 33.3.6.2 in one subclause. SuggestedRemedv Change the title to PD class signature Replace Table 33-19 with Table 33-31 Proposed Response Response Status W Proposed Response Response Status W TFTD PROPOSED ACCEPT. This is a hold over from the AT spec... C/ 33 SC 33.3.8.10 P 164 L 46 # 30 The title really means "How PDs respond to a single-event class" Beia, Christian STMicroelectronics C/ 33 P 155 # 27 SC 33.3.8 L 18 Comment Type **T** Comment Status D PD Unbalance Beia. Christian STMicroelectronics Rsource min and Rsource max represent the Vin source common mode effective resistance that consists of the PSE PI components (RPSE min and RPSE max as Comment Type ER Comment Status D **F**ditorial specified in 33.2.8.4.1, VPort_PSE_diff as specified in Table Table 33-31 33–19, the channel resistance, and RPair PD min and RPair PD max specified in Annex Item 7 is defined twice 33A 5) RPair_PD_min and RPair_PD_max are not part of the PSE PI components. SuggestedRemedy SuggestedRemedy Renumber Tinrush PD as Item 8 and the following items accordingly. Remove RPair PD min and RPair PD max from the description on the PSE PI Proposed Response Response Status W components: PROPOSED ACCEPT. Rsource min and Rsource max represent the Vin source common mode effective resistance that consists of the PSE PI components (RPSE min and RPSE max as C/ 33 SC 33.3.8.3 P 158 L 11 # 28 specified in 33.2.8.4.1, VPort_PSE_diff as specified in Table 33-19 and the the channel resistance). Beia, Christian **STMicroelectronics** Proposed Response Response Status W Comment Type т Comment Status D PD Inrush PROPOSED ACCEPT IN PRINCIPLE. Tinrush-2P min is defined in the PSE section in Table 33-19. In D2.1 the relevant parameter for the PD section is Tinrush-PD max in Table 33-31 TFTD SuggestedRemedy If Rsource min and max include Rpair PD min and max, this is better langauge: Replace Tinrush-2P min (as defined Table 33-19) with Tinrush-PD max (as defined in table 33-31). 5 instances in 33.3.8.3 Rsource min and Rsource max represent the Vin source common mode effective Proposed Response Response Status W resistance that consists of the PSE PI components (RPSE min and RPSE max as PROPOSED ACCEPT. specified in 33.2.8.4.1 and VPort PSE diff as specified in Table 33–19), the channel resistance, and Rpair PD min and Rpair PD max specified in Annex 33A.5). If not, remove Rpair PD from this sentence, but keep other changes.

IEEE P802.3bt D2.1 4-Pair PoE 1st Working Group recirculation ballot comments

Comment ID 30

Page 6 of 70 10/27/2016 4:57:16 PM

Cl 33 SC 33.3.8.4 P 158 L 47 # 31 Cl 33 SC 33.3 Bennett, Ken Sifos Technologies, In Bennett, Ken Bennett, Ken Bennett, Ken Comment Type E Comment Status D Editorial Comment Type Comment Type Comment Type There are two references to PClass_PD max. in this section. PClass_PD is a maximum, The extended model	.3.8.4.1 T Comm rode peak sectior imit beyond a sin	P 160 Sifos Techno ent Status X n references PClas pole PClass refere	L 5 logies, In	# 33 PD Power
Bennett, Ken Sifos Technologies, In Bennett, Ken Comment Type E Comment Status D Editorial Comment Type T There are two references to PClass_PD max. in this section. PClass_PD is a maximum, The extended model The extended model The extended model	Comm node peak sectior imit beyond a sin	Sifos Techno ent Status X n references PClass pole PClass referen	logies, In	PD Power
Comment TypeEComment StatusDEditorialComment TypeTThere are two references to PClass_PD max. in this section.PClass_PD is a maximum,The extended model	Comm node peak sectior imit beyond a sin	ent Status X n references PClas	n Contion 22.2	PD Power
There are two references to PClass_PD max. in this section. PClass_PD is a maximum, The extended mo	ode peak sectior imit beyond a sin	n references PClas	Section 22.2	
so "max" is redundant. average power lir			nce.	8.2.1 is expanding the
SuggestedRemedy The suggested re	appropriate when a second	the 33 3 8 4 1 PCI	ass reference to	Poort PD max which
On lines 47 and 53, change: PClass_PD max to BOL DD to	PD avg power as BE as a result of	s determined unde this change.	r 33.3.8.2.1 rules	s. TDL 2.0 comment
PClass_PD Existing Text:				
Proposed Response Response Status W the peak power PROPOSED ACCEPT. defined in Table 3	er shall not excee 33–19 and with	d PClass at the PS 5% duty cycle. Pea	SE PI for more th ak operating pow	an TCUT-2P min, as rer shall not exceed
Cl 33 SC 33.3.8.2.1 P 157 L 38 # 32 Suggested Benedu	5 max.			
Bennett, Ken Sifos Technologies, In Change:				
Comment Type T Comment Status X Extended Powershall not exceed	ed PClass			
TDL 2.0 comment #47 pointed out that an upper limit for PClass was not clearly defined. to: The suggested remedy adds a secondary limit based upon Icable. (if accepted, this wouldshall not exceed	ed Pport_PD max	x		
OBE TDL 2.0 #47.) Proposed Response	e Respon	se Status W		
Existing Text: TFTD				
may consume greater than PClass_PD but shall not consume greater than PClass at the C/ 33 SC 33.3 PSE PI. Bennett, Ken	.3.8.5	P 160 Sifos Techno	L 33 logies, In	# 34
SuggestedRemedy Comment Type T	T Comm	ent Status X		Pres: Bennet1
Append the following to the existing text: When TDL 2.0 cc	comments #50 ar	nd #51 were discus	sed in the last m	neeting, it was pointed
and shall not draw current in excess of Icable as defined in Table 33-1. out that the graph power sections, v	ohs and related te were not clear, a	ext repeat the "shal and could be delete	lls" that exist in tl ed.	he average and peak
Proposed Response Response Status W Subsequently, it v TFTD suggested remed section 33.3.8.6 ft	was determined dy removes the g to remove the re	that (only) section graphs and related ferences and clarit	33.3.8.6 referen text from 33.3.8 fy that section.	ced those graphs. The .5, and modifies
SuggestedRemedy				
See Bennett_01_	_1116.pdf			
Proposed Response WFP	e Respon	nse Status W		
TFTD				

Cl 33	SC 33.8.2	P 190	L 1	# 35	CI 33	SC	33.3.3.11	P 142	L 7	# 37
Chabot, C	raig	UNH-IOL			Darshan, Y	'air		Microsemi		
Comment	Туре Е	Comment Status D		PICS	Comment	Туре	TR	Comment Status D		PD S
To Sa reflect 2015.	tisfy comments the changes in These change	numbered 158, 257, and 258 on the text apparent in D2.0 when s can be seen in detail in Chab	on D2.0, the PI n compared to ot_01_1116	CS were updated to Clause 33 of 802.3-	The in page 1 In add	troduct 1 lines ition, th	ory part fo 3-7 in dar ne suffix _r	r dual-signature state machin shan_09_0916Rev005.pdf fro nodeY' was changed to "_mo	e was not impl om last comme de(M)" in orde	emented as specified in ent resolution. r to sync with D2.1.
Suggested	dRemedy				Suggestea	Remed	dy			
None.	The changes	made are already reflected in D	02.1		Add th	e follov	wing text to	33.3.3.11 on page 142 after	line 7:	
Proposed PROF	Response POSED ACCEF	Response Status W PT.			" I he fo and m mode applies	ollowing odeB. A and r	g are the ro The dual-s mode B ind ode A and i	equirements for dual-signatur ignature state machine shall dependently unless otherwise mode B are denoted with the	e PD state ma be implemente specified. All suffix " mode(chine over each modeA ed over each pairset for the parameters that [M]" where "M" can be
CI 79	SC 79.5	P 229	L 1	# 36	"A" or	"B". A j	parameter	that ends with the suffix "_mo	ode(M)" may h	ave different values for
Chabot, C	raig	UNH-IOL			mode	A and r	mode B."			
Comment	Type E	Comment Status D		PICS	Proposed	Respor	nse	Response Status W		
the te: be set Suggested None. Proposed PROF	xt apparent in I en in detail in C dRemedy The changes Response POSED ACCEF	22.0 when compared to Clause habot_02_1116 made are already reflected in E <i>Response Status</i> W T.	79 of 802.3-20	15. These changes can	That te section On pae Chang diagra to: "Du shown param	ext can a (33.3. ge 132, e: "Dua m shov ual-sign in Figu eters th	not go in tl .3). , line 50 al-signatur wn in Figur nature Typ ure 33–33 hat apply t	ne "constants" section. It belo e Type 3 and Type 4 PDs sha e 33–33." ne 3 and Type 4 PDs shall pro over each pairset independer o mode A and mode B are de	ongs in the PD all provide the I wide the behave tily unless othe noted with the	state diagram intro behavior of the state vior of the state diagram erwise specified. All the suffix "_mode(M)"
						nt value	es for mod	le A and mode B."		_mode(ivi) may have
					Darshan, Y	′air	330.2	F 255 Microsemi	L 20	# 30
					Comment	Tvpe	т	Comment Status D		Anne
					This co Figure	ommen 33C-1	nt was not 2: Missing	implemented in D2.0 and res TCLE1 label and arrow as do	ubmitted again	ı. 33C-13.
					Suggested Add T	Remed CLE1 la	<i>dy</i> able and a	rrow to Figure 33C-12.		
					Proposed	Respor	nse	Response Status W		
					PROP	OSED	ACCEPT	IN PRINCIPLE.		
					OBE b	y 105				

Comment ID 38

PD SD

Annex

Cl 33 Darshan, Yair	SC 33.5 r	P 180 Microsemi	L 26	# 39	C/ 33 Darshan, Y	SC 79.3.2.6d air	P 224 Microsemi	L 12	# 41
Comment Typ From TD 33.5 Data PD. See dars See dars	pe TR L comment #21 a Link Layer cla han_13_1116.p han_11_1116.p	Comment Status X 4 D2.0: Issification need to be update odf for concept presentation. odf for proposed baseline.	ed in order to s	Pres: Darshan11 upport dual-signature	Comment (TDL # The te: "Using maxim In addi	Type TR 232 Lennart Y.) (t says: the Autoclass fie um power consur tion Table 79-5d	Comment Status X Id to trigger a new Autoclass nption." tries to specify some "hands	s measuremen shak" paramete	LLDP t allows a PD to change ers.
SuggestedRe Adopt da Proposed Re WFP TFTD	emedy rshan_11_1116 sponse	5.pdf if ready for the meeting. Response Status W	lf not ready, k	eep it in the TDL.	I believ a)It is r b)Wha c)Whe d)Whe e)Whe f)The f	e the definitions is not clear who is ir t is the timing sec n to raise power? n to measure? re is the final Ack ow is missing.	are incomplete and may cau hitiating the request for new quence? nowledge?	use issues. Autoclass mea	surement?
CI 33	SC Annex 330	C P 251	L 14	# 40	This is	part of the TDL f	or comment #232 D2.0 for L	ennart:)	
Darshan, Yai	r	Microsemi			Proposed I	Response	Response Status W	,	
Comment Typ (TDL #23 Annex 33 between After revi done in p TRUE wh Staggere staggere TRUE or In additio single sig SuggestedRe Update d a)In dual- in figure 3 note sayi Staggere	pe TR 31 Lukacs, Miklo 32 objective is to detection and c ewing it, it seem arallel when du nich is not nece d classification d classification fALSE. on, in all drawing gnature, PWR_1 emedy Irawing to addre- signature class 33C-2, 33C-5 th ing "The drawin d classification	Comment Status X os) o supply informative data reg connection check as function ins to supply also information ial-signature PD is detected a ssarily correct. can be done regardless if it is can be done regardless if it is gs, PWRUP starts at the sam UP can be done in different ti ess the following points: sification can be done in para hat classification is in parallel g show one option to classific and POWER_ON can be do	arding the timi of CC_DET_S regarding if cl and Class_4PI s single or dua s Class_4PID_ e time while ir mes. Ilel or in stagg and can be al cation and PO' ne."	Pres: Lukacs1 ng relationships EQ variable options. assification must be D_mult_events_sec is al signature PD and mult_events_sec is a dual-signature or even ered way. See example so staggered. Or add WER_ON timing.	C/ 33 Darshan, Y Comment (TDL fe If PSE PD phy DLL al If after the PD to know As a re Suggested See da Proposed I	SC 79 air Type TR or comment #237 issues only singly visical advertised so doesn't have the some time PSE I can't require mo v how much more sult, we need to Remedy rshan_05_1116. Response	P 208 Microsemi Comment Status X from D2.0) e class event due to power class is. his information by the TLVs. has a power budget > class re power since DLL doesn't a power he can ask for. add to TLVs information, the podf. Response Status W	L 2 limitations, it do 3, and the PD have the physi e PD physical c	# 42 Pres: Darshan5 bes not know what the wants more using DLL, cal PD class information class information.
DIScan a Proposed Re WFP TFTD	iii arawing in An Isponse	Response Status W	requirea.		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: Comment ID

J. J.	SC 33.3.8	.10 <i>P</i> 165	L 24	# 43	CI 33	SC	33.2.5.12	P 98	L 39	# 45
Darshan, Y	Yair	Microsemi			Darshan,	Yair		Microsemi		
Comment	Type TR	Comment Status X		Editorial	Comment	Туре	TR	Comment Status D		PSE SD
In Sep where a) Info in the is b) We design spec is c) Info overlo All the Annex	otember 2016 e presented fo ormation that i annex. e need a set of n. We don't ne is complete ar ormative Anne boked if it cont e above make < 33A.5 to the	meeting when Annex D was survey why not to do it, as follows; s needed for interoperability need to supply the reasons for the d sufficient to guarantee interox x is located far after clause 33 ains information that is needed a lot of sense. Therefore I sug end of 33.3.8.10 as it is critical	uggested to be ad reds to be in the s cient for PSE PI d e spec numbers operability. and there is a hig to properly desig gest to move the guidelines for PE	ded, good arguments tandard body and not esign and PD PI as long as the current h chance to be n the PD. design guidelines from D designers to meet PD	The e tclass 1. It s 2. tcla Suggestee 1. rep CLAS 2. Ada "tclas: A time	kit from _rst_tim nould be ss_rese <i>IRemec</i> ace tcla S_RES I tclass _reset_ er used	CLASS_R er_pri is no class_ree t_timer_pr /y ass_rst_tim ET_PRI. _reset_timer_pri to limit the co_roble 2	ESET_PRI, tclass_rst_time of exists. set_timer_pri doesnt exists in the timers er_pri_done with tclass_res er_pri to the timer list in 33.2 classification reset time on	r_pri_done. list. et_timer_pri_do 2.5.10. the Primary	ne in the exit from
PI par-	r-to-pair unbal	ance without guessing what to	do		Proposed	alive, 5 Respor		Pesnonse Status W		
Suggested	urcemeay ve the content	of Annex 33A 5 to the end of t	33 3 8 10 (nage 1	65 after line 24)	PROF	OSED	ACCEPT II	N PRINCIPLE.		
2. Rep	place any refe	rence to annex 33A.5 with 33.3	3.8.10.	50 alter line 24).						
Proposed	Response	Response Status W			1. rep CLAS	ace tcla S RES	ass_rst_tim ET PRI.	er_pri_done with tclass_res	et_timer_pri_do	ne in the exit from
TFTD					2. Add	tclass	_reset_time	er_pri to the timer list in 33.2	2.5.10.	
	SC 224 5	P 234	L 17	# 44	A time	er used	to limit the	classification reset time on	the Primary	
CI 33	30 33A.3									
<i>Cl</i> 33 Darshan, ነ	Yair	Microsemi			Altern	ative; se	e i reset ir	n Table 33–17."		
CI 33 Darshan, N Comment	Yair <i>Type</i> TR	Microsemi Comment Status X		Pres: Darshan4	Altern	ative; se	ee i reset ir	n Table 33–17."		
Cl 33 Darshan, N Comment "For P require ALFA	Yair <i>Type</i> TR PD power above ement will be and BETA in	Microsemi <i>Comment Status</i> X we the values shown in Table 3 needed to not exceed ICon-2P the equation RPair_PD_max =	3.28 and up to P0 _unb by means o ALFA*RPair_PD	Pres: Darshan4 Class, stringent f smaller constants _min+BETA."	Altern	ative; se	ee Treset Ir	n Table 33–17."		
C/ 33 Darshan, Y Comment "For P require ALFA It will h extend	Yair <i>Type</i> TR PD power abovement will be and BETA in help to the de ded power as	Microsemi <i>Comment Status</i> X we the values shown in Table 3 needed to not exceed ICon-2P the equation RPair_PD_max = signer to have the equations an well.	3.28 and up to P(_unb by means o ALFA*RPair_PD nd constants for c	Pres: Darshan4 Class, stringent f smaller constants _min+BETA." lass 6 and 8 for	Altern	ative; s	e treset if	n Table 33–17."		
C/ 33 Darshan, [\] Comment "For P require ALFA It will h extend To add above	Yair <i>Type</i> TR PD power above and BETA in help to the ded ded power as d to the spec e text accordin	Microsemi <i>Comment Status</i> X we the values shown in Table 3 needed to not exceed ICon-2P the equation RPair_PD_max = signer to have the equations ar well. the equations for extended pow gly.	3.28 and up to P0 _unb by means o ALFA*RPair_PD nd constants for c ver for class 6 and	Pres: Darshan4 Class, stringent f smaller constants _min+BETA." lass 6 and 8 for 1 8 and modify the	Altern	ative; so	e Treset ir	n Table 33–17."		
C/ 33 Darshan, N Comment "For P require ALFA It will h extend To add above Suggested	Yair <i>Type</i> TR 2D power abovement will be and BETA in help to the de ded power as d to the spec text accordin dRemedy	Microsemi <i>Comment Status</i> X we the values shown in Table 3 needed to not exceed ICon-2P the equation RPair_PD_max = signer to have the equations an well. the equations for extended pow gly.	3.28 and up to PC _unb by means o ALFA*RPair_PD nd constants for c ver for class 6 and	Pres: Darshan4 Class, stringent f smaller constants _min+BETA." lass 6 and 8 for I 8 and modify the	Altern	ative; so	e Treset if	n Table 33–17."		
C/ 33 Darshan, ` Comment "For P require ALFA It will P extenc To add above Suggested Adopt	Yair <i>Type</i> TR PD power above and BETA in help to the de ded power as d to the spec text accordin <i>dRemedy</i> c darshan_04_	Microsemi <i>Comment Status</i> X we the values shown in Table 3 needed to not exceed ICon-2P the equation RPair_PD_max = signer to have the equations an well. the equations for extended pow gly. 1116.pdf if ready for the meeting	3.28 and up to P0 _unb by means o ALFA*RPair_PD nd constants for c wer for class 6 and ng. If not ready ac	Pres: Darshan4 Class, stringent f smaller constants _min+BETA." lass 6 and 8 for I 8 and modify the d to TDL.	Altern	ative; so	e Treset ir	n Table 33–17."		

Proposed Response Response Status W

WFP

TFTD

Cl 33 Darshan	SC 33.2.8 Yair	P 113 Microsemi	L 40	# 46	C/ 33 Darshan	SC <mark>33</mark> Yair	3.1.4	P 53 Microsemi	L 51	# 47
Common	• Turne - T			Dura Davidaria	Common!	Turne				Ochline
Table 1. It i the d 2. It v	a 33-19 item 2, s not clear if it i irection). will be helpful to adRemedy	VPort_PSE_diff. s total 10mV or +/-10mV which	is 20mV. (It is t I its location.	Pres: Darsnan7 total 10mV regardless of	The n "NOT pair s currer The n Icable	ote below E-In Type ystem resi nt unbalan ote below e can't be e	ER Table 3 3 and 1 istance ice, see Table 3 e.g. >0.	33-1: Type 4 operation, the current unbalance. See 33.2.8.4.1. F TIA TSB-184-A and ISO/IEC 33-1 need some clarification. 6A.	per pairset may for additional inf TR 29125 Edit It looks like that	Cabling be impacted by pair-to- formation on Type 4 ion 2." t in 4-pair operation
1. In	the additional ir	nformation column for VPort_PS	E_diff change	the text to:	Suggeste	dRemedy				
"Ope 2. In "Ou the P 3. In with ' 4. In	en load voltage, the parameter i tput voltage pai OWER_ON sta Figure 33B-2, a 'i1" and "i2". Se Figure 33B-2, a	when operating over 4-pair. Se name, modify the text to be: ir-to-pair **total voltage** differe ate" add VPort_PSE_diff label and a be darshan_07_1116.pdf Figure add VPort_PSE_diff label and a	e Figure 33B-2 nce of pairs wit rrow between t 33B-2 for refer rrow between t	2. h the same polarity in he labels of the lines ence. he labels of the lines	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 4- pair current for Type 3 and Type 4 is 2xIcable. 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 Icable 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 Icable resulting with total 2xIcable over a single 4-nair cable."					
with '	'i3" and "i4". Se	e darshan_07_1116.pdf Figure	33B-2 for refer	ence.	Proposed	Response	е	Response Status W		
Proposed	l Response	Response Status W			TFTD					
WFP TFTE)				Shoul	d this be a	a new s	ection somewhere? Should t	his go in Sectio	n 33.1.4?
					Better	text:				
					Add th "Icabl pair c the cu unbal to be than I	ne followin e in Table urrent for Irrent per p ance whic higher per cable resu	ng text to 33-1 is Type 3 pairset h may o r the lim ulting wi	o 33.2.8.4.1 on page 120 after defined for 100% pair-to-pair and Type 4 is 2xIcable. In Ty may be impacted by end to e cause Icable on one of the pa hits of Icon-2P_unb in Table 3 th a total current of 2xIcable	er line 35: r balanced oper pe 3 and Type 4 nd pair-to-pair s irs of the pairs 33-19 while the over a single 4-	ation where the total 4- 4 operation over 4-pairs, system resistance with the same polarity other pair will be lower pair cable."

<i>Cl</i> 33 Darshan, Ya	SC 33.3.8.3	P 158 Microsemi	L 18	# 48	C/ 33 Darshan,	SC Yair	33.2.5.12	P 99 Microsemi	L 38	# 50
Comment Ty Missing	ype E "in" in the text,	Comment Status D two locations marked with **	*in**:	Editorial	Comment The e	<i>Type</i> xit from	TR CLASS_R	Comment Status D ESET_SEC, tclass_rst_time	er_sec_done.	PSE SD
Single-s PPeak_ signatur 2P withi	signature PDs a PD within TInru e PDs assigne in TInrush-2P m	assigned to Class 1, 2, or 3 s ush-2P min as defined **in** d to Class 1, 2, or 3 shall con nin as defined **in** Table 33	hall conform to F Table 33-19. Ty nform to PClass_ 3-19 on that pairs	PClass_PD and pe 3 and Type 4 dual- _PD-2P and PPeak_PD- set.	tclass 1. It s 2. tcla Suggeste	s_rst_tin hould b ass_res dReme	ner_sec is r e tclass_re et_timer_se dy	not exists. set_timer_sec ac doesnt exists in the timers	s list.	
SuggestedR Change "Single- PPeak_	Remedy the text to be: signature PDs PD within TInru	assigned to Class 1, 2, or 3 s ish-2P min as defined in Tab	shall conform to ble 33-19. Type 3	PClass_PD and 8 and Type 4 dual-	1. rep CLAS 2. Adu "tclas A time Altern	lace tcl S_RES d tclass s_reset er used native; S	ass_rst_tim ET_SEC. _reset_time _timer_sec to limit the See Table 3	er_sec_done with tclass_re er_sec to the timer list in 33. classification reset time on f 3–17."	set_timer_sec_(2.5.10. the Secondary	done in the exit from
signatur 2P withi <i>Proposed R</i> PROPO	re PDs assigne in TInrush-2P m <i>esponse</i> DSED ACCEPT	d to Class 1, 2, or 3 shall cor nin as defined in Table 33-19 <i>Response Status</i> W	nform to PClass ₋) on that pairset.	_PD-2P and PPeak_PD- "	Proposed PROF 1. rep	Respon POSED	nse ACCEPT I ass_rst_tim	Response Status W N PRINCIPLE. er_sec_done with tclass_re	set_timer_sec_o	done in the exit from
CI 33 Darshan, Ya Comment Ty	SC 33.3.9 air ype E	P 166 Microsemi Comment Status D	L 10	# 49 Editorial	2. Adu 2. Adu "tclas A time in Tal	d tclass s_reset er used ole 33-	ET_SEC. _reset_time _timer_sec to limit the 17."	er_sec to the timer list in 33. classification reset time on t	2.5.10. the Secondary A	Alternative; see Treset
Typo in signatur	Table 33-33 ite e PD"	em 1 title "input current a fund	ction of the assig	ned Class to a single-	Cl 33 Darshan,	SC Yair	33.2.8	P 104 Microsemi	L 49	# 51
"a" neec SuggestedR Change "input cu	d to be "as a" <i>Remedy</i> to: urrent as a func	tion of the assigned Class to	o a single-signati	ure PD"	Comment TDL # See c Icable	<i>Type</i> #510 D2 larshan e or Ipea	TR 2.0. _01_1116.p ak-2P) from	Comment Status X odf for a proposal to address comment #510 D2.0.	s TDL list regard	Pres: Darshan1 ing lunb=3%*(Ipeak or
Proposed R PROPO	esponse DSED ACCEPT	Response Status W IN PRINCIPLE.			Suggeste Adopt	dReme t darsha	<i>dy</i> an_01_1116	3.pdf		
Change "input cu	to: urrent as a func	tion of assigned Class to a s	single-signature	PD"	Proposed WFP	Respo	nse	Response Status W		
					TFTD					

C/ 30 SC 30.12.2.1.	14 P 34	L 50	# 52	C/ 33	SC 33.2.5.12	P 97	L 22	# 55
Darshan, Yair	Microsemi			Darshan, Ya	air	Microsemi		
Comment Type TR "aLldpXdot3LocPowerT (See comment #490 in SuggestedRemedy If not resolved yet for D	Comment Status X ype" There is no value for Ty D2.0) 2.1, add it to the TDL for the	vpe 3 or Type 4 next draft.	Management	Comment T (TDL fo The PS class co which it This is c	ype TR r comment #254 E state machine ode by issuing 3 need to generation covered by the te	Comment Status X , D2.0) part for single signature (Finger and then doing class e only one finger etc. is mist ext but not in the state mach	gure 33-18) wh reset due to lak sing. ine.	<i>Pres: Darshan8</i> en it needs to know ce of sufficient power in
Proposed Response TFTD Do we have a resolutior	Response Status W			SuggestedF Add to t this me If not av	Remedy igure 33-18 the r eting. railable, keep this	missing state machine part i s in the TDL.	in darshan_08_	1116.pdf if available for
C/ 30 SC 30 Darshan, Yair	P 24 Microsemi	L 1	# 53	Proposed R WFP	esponse	Response Status W		
Comment Type TR All new TLVs need to be Measurements. (See comment #286 in	Comment Status X e added to this section. This D2.0)	include Autocla	<i>Management</i> ass and	C/ 33 Darshan, Ya	SC 33.2.8.1 air	P 105 Microsemi	L 32	# 56
SuggestedRemedy If not resolved yet for D2 Proposed Response TFTD I don't know what is mis is missing. I will mark it	2.1, add it to the TDL for the <i>Response Status</i> W ssing based on this commen as TFTD, please be ready	next draft. Please be mo vith which TLVs	ore specific if something s are missing.	Comment T Switchii This co SuggestedF If not re Proposed R	ype TR ng between 2-pai mment was inclu Remedy solved yet for D2 response	Comment Status X irs and 4-pairs is not covere de in the TDL for comment 2.1, add it to the TDL for the Response Status W	d in the state m #293 D2.0. next draft.	PSE SD nachine.
C/ 33 SC 33.2.5.11 Darshan, Yair	P 75 Microsemi	L 11	# 54	TFTD				
Comment Type TR The pd_autoclass term (See comment #503 in SuggestedRemedy If not resolved yet for D: Proposed Response	Comment Status X is never read by the state di D2.0) 2.1, add it to the TDL for the Response Status W	agram. next draft.	PSE SD					

TFTD

<i>CI</i> 33 Darshan, Ya	SC 33.2.8.4.1 ir	P 120 Microsemi	L 21	# 57	C/ 33 Darshan, Ya	SC 33.3.8.2 . air	.1	P 148 Microsemi	L 37	# 59
Comment Ty (TDL #5 Accurac This con accurac	ype TR 13 from D2.0) y of Equation 33 mment addresse y of equation 33	Comment Status X 3-15 at short cable. es stover_01_0916.pdf from of -15 at short cables.	comment #513 [Pres: Darshan2	Comment T (This co "the P PClass	ype TR mment was in D may consur at the PSE PI.	Comment s TDL from com me greater than ."	Status X ment #47 D2.0) PClass_PD bu	t shall not cons	PD Power
SuggestedR See dars Proposed Re	emedy shan_02_1116. esponse	odf for proposed remedy. Response Status W			Problem more th SuggestedF	n: Equation 33- an Pclass_PD Remedy	-2 defines Pclas , it will by defini	ss by Rchan an tion cause Pcla	d Pclass_PD. If ss in equation 3	a PD consumes 33-2 to be exceeded.
, WFP TFTD					Proposed R TFTD	esponse	Response S	Status W	next draft.	
C/ 33 Darshan, Ya	SC 33.2.8.4.1	P 108 Microsemi	L 513	# 58						
Comment Ty Adding o voltage. This con See dars	<i>upe</i> TR design flexibility nment addresse shan_02_1116.j	Comment Status X to PSE when Equation 33-1 s stover_01_0916.pdf from o odf for proposed remedy.	5 is used at high comment #513 [Pres: Darshan2 er than Vpse-2P_min 02.0.						
SuggestedR See dars	emedy shan_02_1116.	odf for proposed remedy.								
Proposed Re WFP	esponse	Response Status W								
TFTD										

Cl 33 Se Darshan, Yair	C 33.3.8.2.2	P 157 Microsemi	L 47	# 60	C/ 33 Darshan, `	SC : Yair	33.3.8.3	P 149 Microsemi	L 30	# 61	
<i>Comment Type</i> From the T Yair to rew	T <i>Com</i> DL, comment #383 rite 33.3.8.2.2, page	ment Status D D2.0: 157 lines 46-54 with	out SHALL.	PD Power	Comment (TDL ‡	<i>Type</i> #460 fro	T om D2.0)	Comment Status X		Pres: Darshan3	
SuggestedRemedy 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. 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, with the ripple and noise content as defined in Table 33-28, with the ripple and noise content 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, 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-2P 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."					 a ref back a larger of force of force if values, where the boltah minutation matching a matchine of the second of t						
Proposed Resp	oonse Resp	onse Status W									
PROPOSE	D ACCEPT IN PRIN	ICIPLE.			Cl 33	SC : Voir	33.3.8.2.1	P 157 Mieropomi	L 37	# 62	
Verification language fi	of a PD? This is al xes:	bout system stability.	What does that	mean? Also multiple	Comment	тап Туре	TR	Comment Status X		Pres: Darshan9	
Change to "Verification Table 33-28	text: n of stability is achie 8 is met while the Pl	ved when the PD ripp D is operating at or be	ble and noise co elow Pport_PD_i	ntent as defined in max while being	33.3.8.2.1, 33.3.8.4 and 33.3.8.4.1 needs some update to differentiate between single- signature PDs and dual-signature PDs. This is continuation of the work done for comment #512 from D2.0 to cover the rest of the clauses content that we didn't review.						
powered by through a s	a voltage source sereis resistance wit	et in the range of Vpc h value R Ch (as defi	ort_PSE-2P (as on ned in Table 33-	defined in Table 33-19) 1).	Suggested Addop	Remed	<i>ly</i> an_09_111	6.pdf			
					Proposed WFP	Respon	ise	Response Status W			
					TFTD						

C/ 33	SC 33.	3.1	P 43	L	# 63	C/ 33 SC 33.2.5.	2 P 96	L 5	# 66
Darshan, `	Yair		Microsemi			Darshan, Yair	Microsemi		
Comment (TDL ; This c in the	<i>Type</i> T #171) comment is standard a	Co about addr nd trv to be	omment Status X essing the significant d satisfied with 3 signific	igits for the nur	Pres: Darshan15 nbers/equations/constant s it violates the accuracy	Comment Type TR Figure 33-17. Error ir "IF (pd_cls_4PID_se	Comment Status D CLASS_EVAL_SEC state. c * (sig_sec = valid) * (sig_pr	Missing paranthes i = valid) + pwr_ap	<i>PSE SD</i> is in: p_pri) THEN"
require	ed for equa	tions result	and not cause system	over design.	,	(This error corrected	for figure 33-16 for the prima	ry side but not cor	rected in figure 33-17
Suggested	dRemedy					In the secondary side)		
Adopt	darshan_1	5_1116.pd	f if available. If not avai	lable keep this	in the TDL.	Suggesteakemeay			
Proposed WFP	Response	Re	sponse Status W			Change from: IF (pd_cls_4PID_sec To	* (sig_sec = valid) * (sig_pri	= valid) + pwr_app	o_pri) THEN
TFTD						IF (pd_cls_4PID_sec	* (sig_sec = valid) * ((sig_pr	i = valid) + pwr_ap	p_pri)) THEN:
<i>Cl</i> 33 Darshan, `	SC 33. Yair	2.5.12	P 93 Microsemi	L 10	# 64	Proposed Response PROPOSED ACCEP	Response Status W T.		
Comment	Туре Т	R C	omment Status X		PSE SD	CI 33 SC 33.3.3.	12 P 143	L 43	# 67
Figure	93-16: Th	e exit from	IDLE_PRI to START_E	ETECT_PRI.		Darshan, Yair	Microsemi		
We sr FALSI	nould be at E.	le to get to	START_DETECT_PRI	regardless if p	wr_app_sec is TRUE or	Comment Type TR	Comment Status D		PD SD
Suggested	dRemedy					pse_dll_power_level_	_mode(M) variable is not use	d in the dual-signa	ture PD state machine.
Delete	e "pwr_app	_sec" from	the condition "!pwr_app	o_pri * pwr_app	_sec"	SuggestedRemedy			
Proposed	Response	Re	sponse Status W			Delete pse_dll_powe	r_level_mode(M) variable.		
TFTD						Proposed Response	Response Status W		
This p STAR	ath is only T_DETEC	used by so [_PRI witho	me sequences. For ex out this condition.	ample, you can	go from ENTRY_PRI to				
C/ 33 Darshan, `	SC 33. Yair	2.5.12	P 95 Microsemi	L 9	# 65				
Comment	Туре Т	R C	omment Status X		PSE SD				
Figure We sh FALSI	e 33-17: Th hould be at E.	e exit from le to get to	IDLE_SEC to START_ START_DETECT_SE	DETECT_SEC. C regardless if p	owr_app_pri is TRUE or				
Suggested Delete	dRemedy e "pwr app	pri" from t	ne condition "!pwr app	sec * pwr app	pri"				
Proposed	Response	Re	sponse Status W		_				
TFTD		110							
See 6	4								
TYPE: TR COMMEN SORT OR	/technical T STATUS DER: Com	equired EF : D/dispatcl ment ID	R/editorial required GR hed A/accepted R/reje	/general require ected RESPC	ed T/technical E/editorial G DNSE STATUS: O/open W/w	/general vritten C/closed U/unsatisfiec	Com Z/withdrawn	ment ID 67	Page 16 of 70 10/27/2016 4:57:16 P

C/ 33 SC 33.3.3.12 Darshan, Yair	P 143 Microsemi	L 53	# 68		C/ 33 Darshan, N	SC 33B. ′air	1	P 245 Microsemi	L 23	# 70
Comment Type TR Comm In the text: "pse_dll_power_type A control variable output by the indicates the PSE Type connect	nent Status D PD power control sta ted to Mode M as 1 o	ate diagram (Fig or 2, see 79.3.2	<i>PL</i> gure 33-49) that .4.1."	D SD	Comment Type TR Comment Status X Anne The text "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." Is not fully acurate after removing part of the text in D2.1. Is not fully acurate after removing part of the text in D2.1. Is not fully acurate after removing part of the text in D2.1.					
pse_dll_power_type variable definition has an error. It can't be per mode. SuggestedRemedy Change from: "pse_dll_power_type A control variable output by the PD power control state diagram (Figure 33-49) that indicates the PSE Type connected to Mode M as 1 or 2, see 79.3.2.4.1." To: "pse_dll_power_type A control variable output by the PD power control state diagram (Figure 33-49) that indicates the PSE Type connected to the PD as 1 or 2, see 79.3.2.4.1." <i>Proposed Response</i> <i>Response Status</i>						SuggestedRemedy 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." Proposed Response Response Status W TFTD				
Proposed Response Respo PROPOSED ACCEPT.		This s PSE F	entence doe I effective re	sn't make se sistance?	ense to me. How do	es a compliant l	load include part of the			
C/ 33 SC 33.3.3.16 Darshan, Yair	P 146 Microsemi	L 40	# 69		CI 33 Darshan, Y	SC 33.2. ′air	8.4.1	P 120 Microsemi	L 13	# 71
Comment Type TR Comment Status D PD SD 1. In the exits from DLL_ENABLE it should be pse_power_level and not pse_power_type. See page 20 at darshan_09_0916Rev005.pdf approved remedy from September 2016 meeting. 2. In addition we have to add the suffix _mode(M) to pse_power_level. SuggestedRemedy Change the variable name in figure 33-33 page 146 line 40 from:"pse_power_type"						Comment Type TR Comment Status X Pres: Darsham Some updates are required for D2.1 to resolve issues raised during the discussions at september 2016. 1. Resolving TDL for comment #78 D2.0 (Yair to align paragraphs above and below Figure 33B-1 to remove repetition. See comment 78 in D2.0) See updates to PSE-PD unbalance requirements in darshan_07_1116.pdf. 2. Updating 33B.4 to clarify its use. 3. Updating figure 33B-2 for the locatio of VPort_PSE_diff.				
Proposed Response Response Status W PROPOSED ACCEPT.					SuggestedRemedy Addopt darshan_07_1116.pdf.					
					WFP TFTD		Kesp			

C/ 33 SC 33.2.8.	5 <i>P</i> 121	L 37	# 72	C/ 33	SC 33.2.8.4	P 119	L 50	# 75
Darshan, Yali	Microserni			Darshan,	rair	Microserni		
Comment Type E	Comment Status D		Editorial	Comment	Type TR	Comment Status D		Pres: Darshan14
Typo in "The range t	to t0 is"			Comn	nent #512 D2.0 s	suggested remedy (done toge	ther with David	Stover) per
	ige for to is			appro	ved in Septembe	er 2016 meeting.	d as presented,	discussed and
SuggestedRemedy				(See	http://www.ieee8	02.org/3/bt/public/sep16/dars	shan_16_0916R	ev003.pdf)
See above.				Pleas	e see darshan_1	4_1116.pdf which is identica	l to the one that	was approved with
Proposed Response	Response Status W			D2.1.	euting changes	TOT THE TADIE/Equation/Fage		and content to sync with
PROPOSED ACCER	PT.			Suggested	dRemedy			
C/ 33 SC 33.2.8.	7 P 122	L 35	# 73	1. Imp	plement http://ww	w.ieee802.org/3/bt/public/se	p16/darshan_16	_0916Rev003.pdf with
Darshan, Yair	Microsemi			the ne 2. Imp	ecessary editing a plement darshan	actions to sync with D2.1 OR _14_1116.pdf which do the e	diting work (pref	erred).
Comment Type ER	Comment Status D		Editorial	Proposed	Response	Response Status W		
Missing "PD" in the t "The right side vertic	text: cal axisa Type 3 or Type 4 P\$	SE supplies pov	ver to a single-signature	PROF	POSED ACCEPT	· ·		
over 4-pair."				C/ 33	SC 3.2.8.7	P 123	L 45	# 76
SuggestedRemedy				Darshan, `	Yair	Microsemi		
Change to: "The right side vertic PD over 4-pair."	cal axisa Type 3 or Type 4 PS	SE supplies pov	ver to a single-signature	<i>Comment</i> "The t	<i>Type</i> E otal current at IL	Comment Status D	ırina TLIM-2P m	<i>Editorial</i> in is ILIM min is
Proposed Response	Response Status W			define Missir	ed by Equation (3 ng "and".	3–17)."	5	
	71.			Suggestee	dRemedy			
Cl 33 SC 33.3.3. Darshan, Yair	11 <i>P</i> 142 Microsemi	L 7	# 74	Chano "The t define	ge to: otal current at IL d by Equation (3	IM-2P min operating point du 3–17)."	ring TLIM-2P m	in is ILIM_min and is
Comment Type TR	Comment Status X		Pres: Darshan17	Proposed	Response	Response Status W		
Dual-signature state See darshan_17_11	machine needs some updates. 16.pdf.			PROF	POSED ACCEPT			
SuggestedRemedy								
Adopt darshan_17_1	1116.pdf.							
Proposed Response	Response Status W							
WFP								
TFTD								

C/ 33	SC	33.2.8.11	P 126	L 30	# 77	C/ 33 SC	33.3.8	P 154	L 42	# 78		
Darshan, `	Yair		Microsemi			Darshan, Yair		Microsemi				
Comment	Туре	TR	Comment Status X		Pres: Darshan1	Comment Type	TR	Comment Status X		Pres: Darshan18		
(TDL "NOTE 2, 3, 4 This is For pr Type 3 For Ty There with T Ibias f	#510 D E-For pro- lunb re- s incorre- actical i 3 and 4 /pe 3 ar is no te ype 3 a or any o	2.0) ractical imp equirements ect. implementa as well. nd 4, lunb=(echnical rea nd Type 4 I class is Ibia	elementations, it is recomme s." ations it is recommended tha 0.03*Ipeak-2P_unb. ason that Type PSEs magne lunb which can be 3 times h as=lunb/2=0.03*Iport/2 when	nded that Type It Type 1 PSEs tics will have t igher. working over	e 1 PSEs support Type s support Type 2 and not o be designed to work 2-pairs.	This comment is marked "linrush_mess". The changes made to D2.1 Table 33-31 item 6 Ilnrush_PD and item Ilnrush_PD-2P for "PD Type" column are incorrect compared to the baselines approved on this topic at: (a)May 2016, http://www.ieee802.org/3/bt/public/may16/darshan_01_0516_Rev006.pdf (b)March 2016, http://www.ieee802.org/3/bt/public/mar16/darshan_09_0316R6.pdf The changes in D2.1 for item 7 were made as a response to comment #522 and #523 in D2.0: Comment #522 from David Stover was marked as editorial and should have been technical						
When	working 4 is alm	g over 4-pa	irs, Ibias=lunb/2=lpeak-2P_	unb*0.03/2a	and Ipeak-2P_unb for	Lennart.	23 marke	ed as FR, but actually was tech	nical and didr	't supply explanation to		
Suggester	Reme	dv		po 1.		the requeste	d change	and the remedy was to adopt L	ennart's "rem	nedy file" for comment		
Adopt	Darsha	., an_01_1116	6.pdf			#523: http:// without supp	www.ieee lving anv	e802.org/3/bt/public/sep16/yseb clear rationale.	20dt_09_0916	6_commentsd2p0.pdf		
Proposed	Respor	nse	Response Status W			The changes	s in D2.1 f	for item 6 were made as a respo	onse to comm	nent #523 in D2.0:		
WFP TFTD						Checking the be implemen http://www.ie D1.7 item 6 D1.8 item 6	e drafts ag nted on Ma eee802.org was imple was imple	gainst the above baselines shov ay 2016 due to March 2016 bas g/3/bt/public/may16/darshan_01 emented correctly. Item 7 was n emented correctly. Item 7 was n	v that the abo eline I_0516_Rev0 ot. ot.	we baselines started to		
						D2.0 is identical to D1.8 D2.1 both items 6 and 7 are not according to the approved baselines above due to comment #523 from D2.0.						
						So first thing http://www.ie updates mad	is to upd eee802.or de by com	ate D2.1 based on the last appr g/3/bt/public/mar16/darshan_09 iments up to D1.8.	oved baseline _0316R6.pdf	e from March 2016, as approved with the		
						Based on my have a value errors and it	y discussi for the P turned to	on with Lennart he thought that D Type) but he didn't check the be a major technical change in	there is edito baseline so o D2.1.	rial error (one row didn't one error led to more		
						A later argur "assigned cla to Class 6, it be editorial o Here is the p	nent made ass" so A is still a T change an problem.	e by Lennart of why he propose Type 4 SS PD will request Clas Type 4 PD." This argument is te hymore).	d this change is 7 or 8, but i chnically inco	e was "that this is the if it gets power demoted prrect (any how it can't		
						A Type 4 S demoted to 0 AND NOT in inrush circuit What if A Ty	PD conn Class 6, it rush value ry as func ne 4 SS F	ected to Type 4 PSE will _requires still a Type 4 PD and hence es of class 6 because PD can't ction of classit can't work PD connected to Type 2 PSE2	est_ Class 7 o still need Inru change its inp	or 8, but if it gets power ish values of class 7-8 put capacitance and		
						In this case So the PD m	regardless ay or may	s of the PD inrush needs, The P y not work due to linrush and al	SE can supp so due to not	ly only 0.4A to 0.45A. sufficient power so it is		
TYPE: TR	/technic	cal required	ER/editorial required GR/g	general require	d T/technical E/editorial G/g	eneral	a otiofic d	Commer	nt ID 78	Page 19 of 70		

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

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, Yai	r	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

Pres: Darshan18

Cl 33 SC 33.2.8 P 114 L 16 # 80	Cl 33 SC 33.2.8 P114 L 30 # 81						
Darshan, Yair Microsemi	Darshan, Yair Microsemi						
Comment Type TR Comment Status D PSE In 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". POWER_UP state as function of assigned Class". Power state as function of assigned Class". The "assigned class" is irrelevant here due to the fact that the PD advertised class contates 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 peeds. The PSE can supply only 0.4A to 0.45A	Comment Type TR Comment Status D PSE Inrush 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 So the PD						
So the PD may or may not work due to linrush and also due to not sufficient power so it not important if it is the assigned class or the advertised class.	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 cas i.e. for each PSE class and Type. Proposed Response Response Status PROPOSED REJECT. This would require lower power PSEs to support the inrush demands of a high power PE TETD	1. Change to: "Output current per pairset 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. Proposed Response Response Status W PROPOSED REJECT. TFTD See 80.						
IFID	Cl 33 SC 33.2.5.12 P 89 L 1 # 82 Darshan, Yair Microsemi Comment Type E Comment Status D Editorial Typo in "33.2.5.12 Type 3 an Type 4 state diagrams". Should be "and" SuggestedRemedy Change to: Typo in "33.2.5.12 Type 3 and Type 4 state diagrams". Proposed Response Response Status W PROPOSED ACCEPT. V PROPOSED ACCEPT. P P						

C/ 33FRO SC 33.3.3.16	P 146 L 1	3 # 83	CI 33 SC 33.1.3	P 54	L 16	# 85				
Darshan, Yair	Microsemi		Jones, Chad	Cisco						
Comment Type TR C	Comment Status X	Pres: Darshan16	Comment Type ER	Comment Status D		Editorial				
1. The exit from MDI_POW can be simplified (as done is conditions from MDI_POW (pse_power_level_mode(M To: ((pse_power_level_mode >1))*tpowerdly_timer_done 2. Now the MDI_POWER_I MDI_POWER1 is directly c	ER1 state to MDI_POWER2 thro for the single-signature PD state ER1 to MDI_POWER_DLY from:) > 3) + (pse_dll_power_type >1) de(M) > 3) + (pse_dll_power_type _mode(M) DLY state and the exit from it can onnected to MDI_POWER2.	ugh MDI_POWER_DLY state machine) by replacing the exit be deleted and resulted with	this is a follow up to c (MR1278). That comment called moved to an appropia but not lport. In fact, i 33.2.5.4 - before it is current. Here lport-2F Why did the definition SuggestedRemedy	(MR1278). That comment called for Iport, Vpd and Vpse to be removed from the definitions and moved to an appropiate section, suggesting 33.1.3. Vpd and Vpse now appear in 33.1.3 but not Iport. In fact, if you search the doc, Iport doesn't make an appearance until 33.2.5.4 - before it is defined. This appearance does point to 33.2.8.6, which is overload current. Here Iport-2P is defined but after having been used nearly 30 times in the doc. Why did the definition for Iport not get added to 33.1.3? SuggestedRemedy						
SuggestedRemedy			add the definition for	lport (Iport-2P) to 33.1.3.						
To adopt the proposal abov See SM drawing darshan_1	re. I6_1116.pdf for the proposed cha	nges.	Proposed Response	Response Status W						
Proposed Response Re WFP	esponse Status W		PROPOSED ACCEP Add to 33.1.4.	T IN PRINCIPLE.						
TFTD			CI 33 SC 33.2.7	P 107	L 10	# 86				
	P 223 / 6	# 84	Jones, Chad	Cisco						
Darshan, Yair	Microsemi	" 04	Comment Type TR	Comment Status X		PSE Class				
Comment Type TR C (TDL #248 d2.0) The DLL dual-signature sta signature. The PSE knows this inform	Comment Status X te machine needs to know if PD i ation through physical layer tests	Pres: Darshan12 s single-signature or dual-	Table 33-13. Rows 2 results in the third. Th you can look at row 2 class 0. I get that this assign Class 0. It just	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.						
PD knows it by the existing	TLV information or by other mea	ns.	SuggestedRemedy							
SuggestedRemedy			Step one: move row 2 Step 2: move the sup	2 below row 5. erscript 2 in column 4 to colun	on three. This ha	as a problem of making				
See proposed remedy in da	arshan_12_1116.pdf		it look like 'zero squar	ed', consider making just this	cell say 'Class 0	'				
Proposed Response Re WFP	esponse Status W		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."							
TFTD			Proposed Response	Response Status W						
			TFTD							
			Is there a difference b	between class 0 and class 3?						

CI 33 S	C 33.2.7	P 108	L 10	# 87
Jones, Chad		Cisco		
Comment Type	ER	Comment Status D		Editorial

a sentence was added and broke up the paragraph flow. I want to reorder the sentences. Data Link Layer classification takes precedence over Physical Layer classification. After a successful DLL classification, the assigned Class changes depending on the value of the PSEAllocatedPowerValue variable, as defined in Table 33–15. The Physical Layer classification of the PD is the maximum power that the PD draws across all output voltages and operational modes.

SuggestedRemedy

change to: Data Link Layer classification takes precedence over Physical Layer classification. The Physical Layer classification of the PD is the maximum power that the PD draws across all output voltages and operational modes. After a successful DLL classification, the assigned Class changes depending on the value of the PSEAllocatedPowerValue variable. as defined in Table 33–15.

Proposed Response	Response Status	W	
PROPOSED ACCEPT.			

CI 33	SC 33.2.7	P 108	L 10	# 88
Jones, Chad		Cisco		
Comment Ty	pe ER	Comment Status X		PSE Class

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?

CI 33	SC 33.2.7.2	P 110	L 13	#	89
Jones, Chad		Cisco			
Comment Tv	be ER	Comment Status D			PSE Class

ment Type ER 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.

SuggestedRemedy

add this sentence at the end of the paragraph (line 14): "This behavior is allowed because 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 ACCEPT IN PRINCIPLE.

I am not crazy about adding extra sentences to explain the reasoning. It begins to sound like a tutorial.

How about we change the actual sentence to something like this:

"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."

TFTD

C/ 33 SC	33.2.7.3	P 112	L 36	# 90
Jones, Chad		Cisco		
Comment Type	ER	Comment Status X		Autoclass

the sentence: "If the PSE implements Autoclass and the connected PD requests Autoclass during classification," is missing pointers to help the reader understand what we are saying.

SuggestedRemedy

change to: "If the PSE implements Autoclass and the connected PD requests Autoclass during classification (see 33.3.6.3 and CLASS_EV1_AUTO in 33.2.7.2),"

Proposed Response Response Status W

TFTD

See 210 (probably OBE)

Cl 33 SC : Jones, Chad	33.3.6.3	<i>P</i> 153 Cisco	L 5	# 91
Comment Type need a pointe	ER Commo	ent Status D class section after	the first paragrap	<i>Autoclass</i> h in 33.3.6.3
SuggestedRemed add "see 33.2	ly 7.3" at the end of t	he first paragraph	in 33.3.6.3	
Proposed Respon PROPOSED	se Respon ACCEPT.	se Status W		
Cl 33 SC :	33.2.8.2	P 117	L 30	# 92
Comment Type	E Comm	ent Status D		Editorial
the note need transients last	punctiation to mak ting more than 250	e it easier to read µs or voltage step	: "NOTE—The oc s of significant an	currence of voltage

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 suppl

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 W

PROPOSED REJECT.

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

CI 33	SC :	33.3.6	P 149	L 35	# 93
Jones, Ch	ad		Cisco		
Comment	Tvpe	ER	Comment Status D		PD Class

The PD class section is weak on the statement that a PD may not request more power via LLDP than was requested on the physical layer. Yes it is stated on line page 149 line 5 and line 32, but it is vague.

SuggestedRemedy

after this sentence on line 35: "After a successful DLL classification, the assigned Class changes depending on the value of 35 PDMaxPowerValue variable, as defined in Table 33–25."

add: "DLL classification cannot be used to negotiate to a higher class than the one requested by physical layer classification."

Proposed Response	Response Status	W
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PROPOSED ACCEPT.

C/ 33	C/ 33 SC 33.3.6.1		P 150	L 21	# 94
Jones, Cl	had		Cisco		
Comment Type E		E	Comment Status X		PD Class

the sentence: "Type 1 PDs may choose to implement a Multiple-Event class signature and return Class 0, 1, 2, or 3 in accordance with the maximum power draw, PClass_PD." is a weird statement. What does a PSE or PD gain by performing multievent class using only 0,1,2, or 3?

SuggestedRemedy

is this here simply to allow a Type 1 PD to set pd_2-event to TRUE (and therefore keeping the SD less complex?) if so, can we say that here to give a clue why the sentence exists? Add: "Type 1 PDs are allowed to set pd_2-event to TRUE." after the first sentence in the paragraph on page 150, line 21.

Proposed Response Response Status W

TFTD

This is leftover from AT (so you tell me what you were thinking).

CI 33	SC 33.3.8.6	P 162	L 48	# 95	CI 33C	SC 33C	P 256	L 53	# 97
Jones, Cha	ad	Cisco			Jones, Cha	ad	Cisco		
Comment	Туре Е	Comment Status D			Comment	Type ER	Comment Status D		Annex
"PClas PClass Perhap	s_PD max" is no PD IS THE MA s you mean for	t a constant in this standard. XIMUM if you look at T33- this to say PPort_PD Max?	. It is stated in M 31, PPort_PD N	ANY places that IAX = PClass_PD.	Figure http://v include	33C-15 was g www.ieee802.c e the explanati	enerated from rg/3/bt/public/may16/yseboodt on of the various segments lab	_08_0516_auto eled 1-8.	class4.pdf but did not
Suggested	Remedy				Currenter	Domodu			
lines 4 Also pa places	8 and 52, replac age 163, lines 3	e Pclass_PD max with Pport and 6, replace Pclass_PD-2f	_PD MAX, two p P max with Pport	laces. _PD-2P MAX, two	use ht the de	tp://www.ieee8 scriptions for p	02.org/3/bt/public/may16/yseb eriods 1 thru 8 and add to the	oodt_08_0516_ drawing.	autoclass4.pdf to get
Proposed I PROP	Response OSED ACCEPT	Response Status W IN PRINCIPLE.			Proposed PROP	Response OSED ACCEF	Response Status W		
OBE b	y 248				Add de	escriptions.			
C/ 33	SC 33.3.8.6	P 162	L 48	# 96	CI 33	SC 33.3.1	P 131	L 11	# 98
Jones, Cha	ad	Cisco			Jones, Cha	ad	Cisco		
Comment	Type ER	Comment Status D		PD Power	Comment	Туре т	Comment Status X		PD Power
How ca PPort_ Class a	an a Type 2 PD e _PD Max)? the or 8.	exceed "PClass_PD max" (se nly exception is listed in 33.3.	ee other comment. 8.2.1 and it is on	nt to replace this with hly for Class 6 and	"The F perma one m	PD shall withstanent damage.' ore stab at it ir	and any voltage from 0 V to 57 we know this sentence had pr the suggested remedy.	V at the PI inde oblems and we	finitely without ve tried to fix it. I have
Suggested	Remedy				Suggested	IRemedy			
Move ⁻ Type 4	Type 2 to be inclusion and the statements on I	uded in the Type 1 sentence. ines 48 and 52. Also add 'se	. Add 'see 33.3.8 e 33.3.8.2.1 to th	3.2.1' to the Type 3 and ne Type 3 and Type 4	chang permit	e to: The PD s ted pinouts in	hall withstand any voltage from Table 33-4 at the PI indefinitely	0 V to 57 V ac	cording to any of the nent damage.
DS stu	iff on page 163 li	nes 3 and 6.			Proposed	Response	Response Status W		
Proposed I	Response	Response Status W			TFTD				
PROP	OSED REJECT.								
1. Typ clarity power	e 2 is not include (Type 1 has no s does not exceed	ed with Type 1 because there pecial requirements, Type 2 Pclass_PD, not Persek_PD	e is a difference. has no special r	See AT spec for equirements if the pak					

2. These sentences are calling out a difference between Pclass_PD and Ppeak_PD, so the reference to 33.3.8.2.1 (extended power) is not appropriate.

CI 00	SC 0	P 1	L 1	# 99
Jones, Cł	nad	Cisco		
Comment Within mana no ne	t Type T n 802.3 it is obv agement objects eed to state that	Comment Status) vious that when numeric v s, binary encoding is used	values are transmitt d. It is pervasive action	Pres: Jones ed or accessed through ross the standard. There is
What This i 67.	is needed is a s a comment to	description of what is bei address my TDL items t	ng trasmitted by the from D2.0, specifica	e bits. ally comments 63, 64, and
Suggeste see jo	dRemedy ones_01_1116.	pdf for a complete list of	locations and reme	dies.
Proposed WFP	l Response	Response Status	N	
TFTD)			
CI 79	SC 79.3.8.	1 P 227	7 L 17	# 100
Jones, Ch	nad	Cisco		
Comment valid PD	t Type TR values for the F	Comment Status I PD voltage measurement) is 1 through 65000	<i>LLDF</i> ? This implies 65V at the
Suggeste chanę	dRemedy ge 65000 to 570	000		
Proposed PROF	<i>l Response</i> POSED REJEC	Response Status N	N	
Just b PD to	because PSEs tell the PSE th	aren't supposed to supply at its voltage is higher?	y greater than 57, w	hy would we not allow the

C/ 79	SC 79.3.8.2	P 2 2	28	L 42	#	101		l
Jones, Chad		Cisco						•
Comment Typ	e TR	Comment Status	D				LLDP	

valid values for the PSE voltage measurement is 1 through 65000? This implies 65V at the PSE PI

SuggestedRemedy

change 65000 to 57000

Proposed Response Response Status W

PROPOSED REJECT.

Just because PSEs aren't supposed to supply greater than 57, why would we not allow the PSE to report a higher voltage?

C/ 33	SC 33.3.4	P 147	L 8	# 102
Jones, Cl	had	Cisco		

Comment Type TR Comment Status D PD Power

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

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

TFTD

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?

Cl 33 Jones, Cha	SC 33.3.2 ad	P 132 Cisco	L 26	# 103	C/ 33 Lukacs, M	SC 33C.2 iklos	P 255 Silicon Labs	L 20	# 105
Comment We mu unread making Class one of	Type ER ust hate the end dable specs I ha g this it's own cl 0-8 but no when the main things	Comment Status D d users of our document b ave ever seen (only further lause, but I digress). Here re do we tell them what that s a person will want to kno	ecause we have ma cements that we n we introduce the ca at means in terms c w when they are lo	PD Power ade one of the most nessed up by not oncept of Type 1-4 and f power - which I think is oking at specs for a	Comment Figure Suggested See p	Type TR 33C-12: Missin Remedy resentation "Re	Comment Status X ng TCLE1 label and arrow as do medies for comments against A	ne for Figure 3 nnex 33C"	Pres: Lukacs1 33C-13
POWE them to	Red device. The look ahead to	nis information doesn't con Table 33-27 and 33-28 to	ne until page 151. A give the rest of the	At least be nice and tell explanation.	WFP	Response			
Suggested	lRemedy				TFTD				
after T the allo	able 33-22 or a awed PD power	t the end of 33.3.2 add a r for each Type and Class	new pargraph: For r see Table 33-27 ar	nore information about Id Table 33-28.	CI 33	SC 33C.1	P 251	L 14	# 106
Proposed I	Response	Response Status W			Lukacs, M	iklos	Silicon Labs		
PROP	OSED REJECT	Г.			Comment	Type TR	Comment Status X		Pres: Lukacs1
If we a out by them to to mor	dopt this metho cross reference o cherry pick ce e problems.	odology we will be left with es. Readers need to read ertain information without u	a document that is the entire documer inderstanding the w	completely swamped t! Making it easy for hole spec will only lead	The te variab PD is Suggested Classi	ext and figures s les classificatio detected. <i>IRemedy</i> fication can obj	suggest at multiple places that be n must be done in parallel on bo	ased on the va th alternatives or dual signat	alue of State Machine s when dual-signature ure PDs
TFTD					See p	resentation "Re	medies for comments against A	nnex 33C"	
Cl 30 Jones, Cha	SC 30.12.2. ad	1.18a <i>P</i> 36 Cisco	L 16	# 104	Proposed WFP	Response	Response Status W		
Comment	<i>Type</i> ER	Comment Status D	kewise for Table 70	Management	TFTD				
79-7c	g ruble ro rra			rg on 41 takes me to	C/ 33	SC 33C.1	P 251	L 14	# 107
Suggested	IRemedy				Lukacs, M	iklos	Silicon Labs		
page 3 Page 3	36 line 16 and 2 36 line 40 and 5	9 change 79-7f to 79-7b. 2 change 79-7g to 79-7c.			Comment The fig	<i>Type</i> TR gures suggests	Comment Status X at multiple places that Power O	n must be dor	<i>Pres: Lukacs1</i> ne in parallel on both
Proposed I	Response	Response Status W			alterna	atives.			
PROP OBE b	OSED ACCEP	T IN PRINCIPLE.			Suggested Stagg See p	<i>Remedy</i> ered Power On resentation "Re	can be implemented.	nnex 33C"	
	-				Proposed WFP	Response	Response Status W		
					TFTD				

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

C/ 33 SC 33.3.3.12 Picard, Jean	P 144 Texas Instrum	L 7 nents	# 108	C/ 33 SC 33 Picard, Jean	3.2.5.12	P 99 Texas Instrur	L 21 nents	# 111
Comment Type TR Con VPD_mode(M) is defined, but	nment Status D VPD(M) is used inste	ad in the SD of	ïgure 33-33.	<i>Comment Type</i> The exit condition	ER Comm on from CLASS_E	<i>ent Status</i> D EV3_SEC to K is n	ot edited correctl	<i>Editorial</i> y and is unreadable
SuggestedRemedy Define instead VPD(M).				SuggestedRemedy Correct the edit	ing to avoid the te	ext overlapping ove	er the CLASS_EV	/3_SEC block.
Proposed Response Resp PROPOSED ACCEPT IN PRI	oonse Status W NCIPLE.			Proposed Response PROPOSED A	e Respon CCEPT.	se Status W		
Update diagram to use VPD_r	mode(M) to be consist	ant with all othe	r variables					
C/ 33 SC 33.2.5.12 Picard, Jean	P 89 Texas Instrum	L 4 nents	# 109					
Comment Type TR Com The "A" input condition to Idle	nment Status D block has disappeare	d.	PSE SD					
SuggestedRemedy Put back the "A" entry point to	dle block.							
Proposed Response Resp PROPOSED ACCEPT IN PRI	oonse Status W NCIPLE.							
OBE by 167								
C/ 33 SC 33.2.5.12 Picard, Jean	P 89 Texas Instrum	L 49 nents	# 110					
Comment Type TR Con tdet_timer_done exit path is m	nment Status D		PSE SD					
SuggestedRemedy Put back the tdet_timer_done	path from START_C>	N_CHK_DETE	CT to IDLE block.					
Proposed Response Resp PROPOSED ACCEPT IN PRI	oonse Status W NCIPLE.							
OBE by 181								

C/ 33	SC 33.2.5.7	P 72	L 24	# 112	CI 33	SC	33.2.5.7	P 73	L 14	# 113	
Schindler,	Fred	Seen Simply	Cisco, T		Schindler,	Fred		Seen Simply	, Cisco, T		
Comment	Type TR	Comment Status D		PSE SD	Comment	Туре	ER	Comment Status D		PSE SD	
The le	gacy state diagra	am (page 72) and the Type 3	and 4 state diag	gram (page 91) and text	The sy	/mbols	[] have no	meaning in state diagrams	and should be	replaced by ().	
do not page 1	05 line 21. Lea	acv text indicates. "If a PSE t	that is performing	ner cover in text on a detection using	Suggested	Remed	ly				
Alterna	ative B (see 33.2	.4) determines that the impe	dance at the PI i	s greater than Ropen	Use () in the	state diag	jram.			
as defi	o timer interval	-12, it may optionally conside	er the link to be c that all PSE tvp	es skip the BACKOFF	Proposed	Respon	ise	Response Status W			
state v	when the signatu	re is open_circuit while the te	ext makes this be	ehavior optional.	PROP	OSED	ACCEPT.				
Suggestea	lRemedy				C/ 33	SC	33.2.7	P 106	L 9	# 114	
State o	diagrams overrid	es text. Change the text to r	natch the state d	liagram behavior by	Schindler,	Fred		Seen Simply	, Cisco, T		
Alterna	ative B (see 33.2		dance at the PI i	s greater than Ropen	Comment	Туре	TR	Comment Status D		PSE Class	
as defi	ined in Table 33-	-12, it is recommend that Ty ile Type 3 and Type 4 PSEs	pe 1 or Type 2 P	SEs omitted the the	The ex	planati	on, "The a	ssigned Class is the result	of the PD's requ	lested Class and the	
Proposed	Response	Response Status W			number of class events produced by the PSE as shown in Table 33–13 and Table 33–14." is incomplete. DLL operations may alter the assigned class, see Table Table 33-25.						
PROP	OSED ACCEPT	IN PRINCIPLE.			Suggester	Remen	lv lv	rations may after the assign			
					Replac	ce the re	,, eferenced	sentence with, "The assign	ed Class is the	result of the PD's	
This necom	eeds to be filed a mend updating t	as a maintenance request to he state diagram to make it o	r Type 1 and Typ optional since that	e 2. However, I would at was the intent and	reques 33–13	sted Cla and Ta	ass and the ble 33–14	e number of class events pr or operations performed us	oduced by the F sing DLL see Ta	PSE as shown in Table able 33-25."	
you we	ont make any Pi	os noncompliant by doing the	al.		Proposed	Respon	ise	Response Status W			
For Ty	pe 3 and 4, TFT	D			PROP	OSED	ACCEPT.				
some	thoughts:										
add ne	w variable:	ariable indicating if the DSE	omita tha Tdha h	ack off timor if it							
detects	s an open circuit	on when performing detection	on only on alterna	ative B.							
True:	The PSE omits	the Tdbo back off timer.	ff timer								
Faise:	The PSE does	not omit the the Todo back o	on timer.								
Update	e state diagram t	to use new variable by chang	e transition from	DETECT_EVAL to							
(pse_a	lternative=b) * ((sig_pri=invalid) + (sig_pri=o	pen_ciruit)*!optio	n_tdbo_omit)							
–	, (- , 1	- ,							

CI 33 SC	33.2.7	P 107	L 1	# 115	CI 33	SC 33.2.7	P 108	L 11	# 116
Schindler, Fred		Seen Simply,	Cisco, T		Schindler,	Fred	Seen Simply,	, Cisco, T	
Comment Type	TR	Comment Status X		Pres: Yseboodt4	Comment	Type TR	Comment Status X		PSE Class
Existing tex 33.3.6.3), th and the Typ pse_availab do not see PSEAllocate SuggestedRem The subject determining value." The	t, "If the PD e PSE may e 3 and 4 F ile_pwr, wh where autoo edPowerVa edy matter exp pse_availa other miss This comm	e connected to the PSE perform y set its minimum supported of PSE state diagram do not provision ich is used to determine the p classification takes place and alue. The classification takes place and alue. The classification takes place and alue.	ms Autoclass (putput power ba vide the behavi power provided how the syster mments 232, a on do_autoclass spleted to close satisfied until	(see 33.2.7.3 and ased on PAutoclass," for that determines to the PD. Similarly I m adjusts the and 476, could solve sification to set this e the D2.0 TDL the deficient behavior is	The e the PI allow, layer o may h move level i uses a The re follow	xisting text, "Th D draws across already agreed classification at have its budget the previously s limited by wha all classification equested Class ing solution be	e Physical Layer classification all output voltages and operat d upon operational states when a point within its budget (page increase, due to a system pow power constrained PSE port to at the PD will request using ph events allowed. of a PD is not measurable (pa cause the requested Class of a	of the PD is the ional modes." S e a power limite a 106, line 11). A rer budget chang a higher power ysical layer clas uge 149, Line 30 PD may not res	e maximum power that Should be clarified to of PSE stops its physical After this point, the PSE ge, and use DLL to r level. The upper power solfication if the PSE
provided.					Suggested	dRemedy			
Proposed Resp	onse	Response Status W			Repla	ce the called or	ut sentence with.		
WFP					"The F	Physical Layer	classification value of the PD is	s the maximum	power that the PD
TFTD					draws Physic limitat opera	across all outp cal Layer classi ion is the maxin tional modes."	ut voltages and operational mo fication value of the PD by a P num power that the PD draws	odes before DLI SE with no budy across all outpu	L is utilized. The get power budget ut voltages and
					Proposed TFTD	Response	Response Status W		

-														
Cl 33 Schindler,	SC 3 Fred	33.2.7.2		P 110 Seen Simply,	L 13 Cisco, T	# 117		Cl 33 Schindler,	SC Fred	33.3.3.10		P 141 Seen Simply	<i>L</i> 28 , Cisco, T	# 118
Comment Existir identif PSE s missir	<i>Type</i> ng text, " fication." state diag	TR Type 3 an does not gram does	Comment ad Type 4 F provide de s not provid	nt Status X PSEs may issue a tails on what a cl de this behavior.	a class reset eve ass reset is or c Timing details r	PS ent to perform mu loes. The Type 3 elated to Tpon m	E Class itual and 4 ay be	Comment The T dema pse_p increa	<i>Type</i> ype 3 a nd wher ower_le ised.	TR nd 4 Single n the PSE evel and po	Commen e Signature power budg g_req_class	t Status X PD state diagra et has increase is not changed	m prevents DLI d. This occurs when the PDM	PSE SD L from increasing power because the variable axPowerValue is
Suggested	dRemed	/						Suggestee	dRemed	ły				
This s Modify classi condit "pse_ An im	This solution assumes PSE classification of a single signature PD. Modify the reference by appending, the sentence, "A class reset event causes classification to enter CLASS_EV1_LCE." Add an entry into CLASS_EV1_LCE with the condition "pse_class_reset". On page 81 add the new definition, "pse_class_reset An implementation-specific means of repeating classification, see 33.3.7.2. EAL SE: Do not permit entry into PD classification (default)							On page 150 modify the second column of Table 33-25 from "Assigned Class" to "Assigned Class pse_power_level pd_req_class" Proposed Response Response Status W Huh?						
FALS TRUE	E: Do no :: Permit	t permit e entry into	entry into P PD classi	D classification (fication."	default).			l don'i page	unders 150. Ia	tand why t Ilso don't u	his commer Inderstand v	nt is associated what the sugges	with page 141, sted remedy me	line 28, but the fix is on ans.
Add o	peration	"pse_clas	ss_reset <=	= FALSE" within	state CLASS_E	/1_LCE.		TFTD						
Partic Tpon needs	ipants th requirem to be or	at need th ents if the within Tp	nis ability s e existing ti pon).	hould discuss the iming cannot be i	e need to amend met (i.e. class d	d text related to m one twice and po	eeting wer							
Proposed TFTD	Respon	se	Respons	e Status W										
l belie which	ve Yair i is not ne	s working ecessary.	on this. T	his solution provi	des an impleme	ntation specific s	olution							

CI 33	SC 33.3.6	P 149 L 6	# 119	CI 33	SC 33.3.6	P 149 L 30	# 120
Schindler, Fred		Seen Simply, Cisco, T		Schindler, F	red	Seen Simply, Cisco, T	
Comment T	vpe TR	Comment Status D	PD Power	Comment T	vpe TR	Comment Status X	PD Class

The existing text, "The Class advertised by the PD during Physical Laver 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 Laver 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 Laver 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

Comment Type Comment Status X TR

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 reg 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 reg 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

C/ 33	SC 33.3.6	P 149	L 6	# 121	C/ 79	SC 79.4.2	P 231	L 7	# 123
Schindler,	Fred	Seen Simply,	Cisco, T		Schindler,	Fred	Seen Simply	, Cisco, T	
Comment	Type TR Co	omment Status D		PD Power	Comment	Type ER	Comment Status D		Editoria
lt is no 157 Li comm	ot clear what the definit ine 21) and "requested ent, marked COMMEN	tions of "advertised Cla Class by a PD" (page JT-1 for comments on i	ss by the PD" (p 149 Line 30) are requested Class	bage 149 Line 6, page e. See a related s. Both of these terms	All the assoc	e added or amer siated clause 30	nded Table 79-9 variables sho attributes.	ould have an acti	ve hyperlink to the
seem power	to indicate the maximu budget limitation. Also	Im class a PD would re o see a related comme	quest if connec nt, marked COI	ted to a PSE without a MMENT-2.	Suggester Add fi	dRemedy unctional hyperl	inks.		
Suggestee	dRemedy				Proposed	Response	Response Status W		
If the Class PSE v senter	definition is the same for "If the advertised class vithout a power budget note on line 7. "The adv to turbon classification of	or both terms replace " ss is the maximum clas limitation, then on pag vertised Class by the P	advertised Clas is a PD would re e 149 add the fe D is the maximu	s" with "requested equest if connected to a ollowing to the last um class a PD would ot limitation."	PROF <i>CI</i> 00 Schindler,	SC 0	T. P 0 Seen Simply	<i>L</i> 30 , Cisco, T	# [124
Dranagad			it a power budg		Comment	Type ER	Comment Status X		LLDF
PROF I belie	POSED ACCEPT IN PF	RINCIPLE.			Table mana Syste have maag	79–9 'IEEE 802 ged object class m Group manag not been define ed objects class	2.3 Organizationally Specific T s cross references' lists a num ged object class attribute' colu d in Clause 30, Table 30-4 "D s (30.9.1).	LV/LLDP Local ber of new attrib Imn for the 'Powe TE Power MDI c	System Group utes in the 'LLDP Local er via MDI' TLV that apabilities" in oPSE
		D / P		"	Suggeste	dRemedy			
Cl 33 Schindler,	SC 33.3.6.2 Fred	P 152 Seen Simply,	L 9 Cisco, T	# 122	Locat appro	e a subject mati priate comment	er expert (not the commentor s to complete the called out s) to evaluate this ection.	and provide the
Comment The ex widely Table	Type TR Co xplanation of how DLL -separated points, whio 33-25 on page 150, an dRemedy	omment Status D may alter PD variables ch may lead to confusion ad page 152 line 5.	to affect classi on. See points	<i>PD Class</i> fication is spread over on page 149 line 35,	Add ru "PSE <i>Proposed</i> TFTD	ow with column Basic Package <i>Response</i>	values, aPSEPowerPairsx, A (mandatory)". <i>Response Status</i> W	TTRIBUTE, GET	SET, X in column
Add a	cross reference to the	end of text on page 15	52 line 9.		CL 00	SC 0	P 21	/ 30	# 125
"… the PDMa	e variable pd_max_pov xPowerValue shown in	ver. DLL affects pd_main Table 33-25."	ax_power indire	ctly by changing	Schindler,	Fred	Seen Simply	, Cisco, T	# 123
Proposed PROF	Response Res POSED ACCEPT.	sponse Status W			Comment Table mana Syste Claus	<i>Type</i> TR 79–9 'IEEE 802 ged object class m Group manage e 30 are not cor	Comment Status X 2.3 Organizationally Specific T s cross references' lists a num ged object class attribute' colu nplete.	LV/LLDP Local ber of new attrib imn for the 'Powe	Pres: Schindler1 System Group utes in the 'LLDP Local er via MDI' TLV add to
					Suggeste	dRemedy			
					Prese	ntation schindle	r_01_1116 provides a marke	d up Clause 30 v	vith proposed solutions.
					Proposed WFP	Response	Response Status W		
					TFTD	1			
TYPE: TR	/technical required ER	k/editorial required GR	/general require	d T/technical E/editorial G/	general		Comm	nent ID 125	Page 33 of 70

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

-					-					
CI 79	SC 79.3.2.6a	P 222	L 7	# 126	C/ 79	SC	79.3.2.6d	P 224	L 9	# 129
Schindler,	Fred	Seen Simply	, Cisco, T		Schindler,	Fred		Seen Simply	, Cisco, T	
Comment	Type TR	Comment Status D		LLDP	Comment	Туре	TR	Comment Status X		LLDP
Table 79.3.2	79-5a Function a .6a.1 or the value	t bits 6:5 is "PSE power pai e used in 30.12.3.18e. The	rx" does not mat term "pairsx" is r	ch the description in now prefered to "pairx".	A subj how to	ect mat	ter expert (ss each field	Lennart?) needs to compled. For example what does	ete this register at the PSE or PD	so that readers know place in them?
Suggested	dRemedy				Suggested	Remed	ly			
Repla	ce "pairx" in Tabl	e 79-5a with "pairsx". Repla	ace "pair" in the t	itle of 79.3.2.6a.1 with	Create	a TDL	to correct t	his concern.		
"pairs:	x". In the same s	ection replace "pair field" w	ith "pairx field".		Proposed	Respor	ise	Response Status W		
Proposed	Response	Response Status W			TFTD					
PROP	OSED ACCEPT	IN PRINCIPLE.			<u></u>	~~~				
Repla	ce "pairx" in Tabl	e 79-5a with "pairsx". Repla	ace "pair" in the t	itle of 79.3.2.6a.1 with	Cl 79	SC	79.3.8.2	P 227	L 9	# 130
"pairs:	x". In the same s	ection replace "pair field" w	ith "pairsx field".		Schindler,	Fred		Seen Simply	, CISCO, T	
C/ 79	SC 79.3.2.6b	.1 P 223	L 5	# 127	Comment	Туре	TR	Comment Status X		LLDP
Schindler,	Fred	Seen Simply	, Cisco, T		A subj	ect mat	ter expert (Lennart?) needs to complete to complete to complete to complete the complete to complete the complete to complete	ete this register :	so that readers know
Comment	Type TR	Comment Status D		IIDP	R/W o	r W?		a. Tor example what does		
A new	name needs to l	be used for the added "Pow	er Type" field so	that it is different than	Suggested	Remed	ly			
the leg	gacy "Power Type	e" field 79.3.2.4.1.			Create	a TDL	to correct t	his concern.		
Suggested	dRemedy				Proposed	Respor	ise	Response Status W		
Repla	ce "Power type" i	n 79.3.2.6b.1 and Table 79-	5b with "Power t	ypex".	TFTD			,		
Proposed	Response	Response Status W								
PROP	OSED ACCEPT.									
01.70	00 70 0 0 0	0 000	/ 00	" [100						
C/ 19 Schindler	SC 79.3.2.00	.Z PZZ3		# 128						
Schindler,		Seen Simply	, CISCO, T							
Comment Some	Type ER text used in Tabl	Comment Status D e 79-5b uses "mode" rathei	[.] than "Mode", wł	Editorial nich is accurate.						
Suggested	dRemedy									
Repla	ce the called out	text with "Mode".								
Proposed	Response	Response Status W								
PROP	OSED ACCEPT.									

C/ 33 SC A.4 Shariff, Masood	P 242 CommScope	L 42	# 131	C/ 33 Shariff, Masoo	C Annex A	P 10 CommScope	L 257	# 133		
Comment Type ER	Comment Status D		Annex	Comment Type	ER	Comment Status D		Editorial		
The requirement for as shown below:	channel pair-to-pair DC resistanc	e unbalance	is listed on lines 22-23	Need to co addendum	rrect the title	e of TIA TSB-184-A. This TSB i	s a standalc	one document, not an		
"Operation using 4-p two pairs of the char is a greater unbaland	air requires the specification of re nel,not greater than 100 mÙ or re se."	esistance unb esistance unb	alance between each alance of 7% whichever	SuggestedRen Change:Ao Cabling.	<i>nedy</i> Idendum Gu	idelines for Supporting Power I	Delivery ove	r Balanced Twisted-Pair		
This requirement app	blies to all channels with 4 connect	ctions up to 1	00 m.	To: Guidelines	for Supporti	ng Power Delivery Over Baland	ced Twisted-	Pair Cabling		
The Note on lines 42	-43 states:			This is a g	obal change	e (also page 20 line 11,		C C		
"NOTE—7% is the w pair-to-pair resistanc At 100 meter channe pair-to-pair resistanc	orst case pair-to-pair resistance of e difference. I length, the cable and connector e unbalance."	unbalance at s ensures 5.5	100 mOhms of channel 5% maximum channel	Proposed Resp PROPOSE	oonse D ACCEPT	Response Status W				
This is confusing and are clear and the not	d conflicting with the requirement e is not needed anymore (OBE).	by stating 5.5	5%. The requirements	C/ 33 S Shariff, Masoo	C 33.4.9	P 175 CommScope	L 54	# 134		
SuggestedRemedy				Comment Type	ER	Comment Status D		Editorial		
Delete the Note.				Update ref	erence to IS	O/IEC 11801 since the new edi	tion has the	generic requirements		
Proposed Response	Response Status W			consolidate	ed into ISO/I	EC 11801-1. ISO/IEC 11801 do	pes not exist	anymore.		
PROPOSED ACCER	ΥТ.			SuggestedRen	nedy					
C/ 33 SC 33.1.4	P 53 CommScope	L 54	# 132	Change all occurances of ISO/IEC 11801 without any date qualfiication to ISO/IEC 11801 1. The ones with dates, e.g. ISO/IEC 11801-2002, or ISO/IEC 11801-1995 can remain the same since they refer to older versions						
Comment Type ER ISO TR 29125 is nov	Comment Status D v elevated to a TS or technical sp	ecification co	Editorial	Proposed Res PROPOSE	oonse D ACCEPT	Response Status W				
guidelines but requir TELECOMMUNICAT FOR REMOTE POW	ements with the title INFORMATI TONS CABLING REQUIREMENT (ERING OF TERMINAL EQUIPM	ON TECHNC TS IENT	DLOGY -	C/ 33 S Shariff, Masoo	C 33.4.9 d	P 175 CommScope	L 3	# 135		
Accordingly the refer	ences to it need to be updated			Comment Type	ER	Comment Status D		Editorial		
SuggestedRemedy				Contection						
Change ISO/IEC TR	29125 to ISO/IEC TS 29125 glob	bally (also pa	ige 54 line 38) in draft 2.1	Suggesteaken	NSI/TIA-56	3 D-0				
Proposed Response	Response Status W			Change . P		5.0 0				
PROPOSED ACCEP	РТ.			To:ANSI/T	IA-568.0-D					
				Proposed Res PROPOSE	oonse D ACCEPT	Response Status W				
				<i>,</i> .				/		

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

Comment ID 135

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C/ 33 SC 33.4.9 Shariff, Masood	P 175 CommScope	L 1	# 136	C/ 33 SC 33.1.4.1 Shariff, Masood	P 54 CommScope	L 35 # 138					
Comment Type ER Incorrect reference. ISC requirements into ISO/II SuggestedRemedy Change: ISO/IEC 11807 To: ISO/IEC 11801-1 Change Also on: page 176 line 14	Comment Status D 0 has reorgonized their standar EC 11801-1 1 Edition 3	ds to consolidate a	<i>Editorial</i> Il generic	Comment Type TR Comment Status D O The ambient temperature is not of the cable, but of the air surrounding the cable. This important distinction that affects many users including regulations and other standards we need to be correct and consistent. The cable reaches a steady state operating temperature that is higher than the ambie temperature with the heat generated equal to the heat dissipated. SuggestedRemedy Change: maximum ambient operating temperature of the cable To: maximum ambient temperature							
Proposed Response PROPOSED ACCEPT.	Response Status W			Change also on line 36 and 37 b Proposed Response Respon	elow line 35 of page 54	ŀ					
Cl 33 SC 33.4.9 Shariff, Masood Comment Type ER Update reference to the SuggestedRemedy Change : ANSI/TIA-568 To: ANSI/TIA-568.0-D Change also in: Page 175 line 48 Proposed Response PROPOSED ACCEPT.	P 175 CommScope Comment Status D current published standard -C.0. Response Status W	L 54	# 1 <u>37</u> Editorial	Cl 33 SC 33.3.7 Stewart, Heath Comment Type T Comm present_det_sign value descripti SuggestedRemedy Change invalid:A non-valid PD detection valid:A valid PD detection signat either: Either a valid or non-valid to invalid:A non-valid PD detection valid:A valid PD detection signat either: Either a valid or non-valid Globally change to the link to to Proposed Response Respon PROPOSED ACCEPT.	P 138 Linear Technolog nent Status D on references to over e signature is to be applied ure is to be applied to th PD detection signature signature is to be applied to th PD detection signature the PI. nse Status W	L4 # 139 ly PD SD each pairset are inconsistent. ed to the link. he link over each pairset. a may be applied to the link. ed to the link over each pairset. he link over each pairset. a may be applied to the link.					

-						-							
CI 33 Stewart, I	SC Heath	33.3.3.7	P 138 Linear Techn	L 24 ology	# 140	C/ 33 Stewart, H	SC 33.3.3.8 eath	P 138 Linear Techr	L 43 1010ay	# 141			
Commen	t Type	Е	Comment Status X		Pres: Stewart1	Comment	Туре Т	Comment Status D		PD SI			
pse_ A cor that indica	dll_pown ntrol var	er_type iable outpu PSE Type	ut by the PD power control s e as 1 or 2, see 79.3.2.4.1.	tate diagram, de	fined in Figure 33–49,	In the MDI_F state.	INRUSH state t POWER1, then	he PSE controls inrush, wher either begins to control inrush	ו tinrush expires ו or transitions di	the PD transitions to rectly to its Pclass_PD			
Volue	00.					Note of	or is change to a	and to reflect the Miniumum(P	Dinrush, PDclas	s) function.			
1: Th	es. ne PSE i	is a Type 1	PSE, for a Type 1 PSE			Also v	erb forms do no	t match (controls vs observe))				
2: Th	ie PSE i	is a Type 2	PSE, for Type 2, Type 3, or	Type 4 PSEs		Suggested	Remedy						
As cl	ear as t	his already	is, perhaps it could be ever	n more clear.		Chang	je and timor						
Gene text i Type	erally the n 33.3.7 e 2's.	e Type 3/4 ′ PSE Type	single-signature definition o a id has become imprecise in	f pse_dll_power n labeling Type 2	_type and associated 2, 3 and 4 PSEs as	A time power limits;	er used to deterr see TInrush_PI	nine when the PD controls the	e input current, o	r observe PClass_PD			
Chan easie	nging the est way t	e variable e forward.	enumerations to "is a Type 1	" TRUE and FA	LSE seems like the	to tinrushpd_timer A timer used to determine when the PD exits the INPUSH state and begins to either							
Suggeste	edReme	dy				A time contro	er used to deterr I the input curre	nine when the PD exits the IN nt, and observe PClass_PD p	JRUSH state and	begins to either			
Sees	stewart_	_01_1116				limits;	see TInrush_PI	D in Table 33–31.					
Proposed	d Respo	nse	Response Status W			Proposed	Response	Response Status W					
WFP)					PROF	OSED ACCEP	T IN PRINCIPLE.					
TFTC	D					Chang tinrush A time MDI_F	ge to: hpd_timer er used to deterr POWER1; see T	nine when the PD exits INRU Thrush_PD in Table 33–31.	SH and meets th	ne requirements of			
						TFTD MDI_F directl	the following: POWER1 has th y contradicts inr	ne requirement of drawing clas rush currents above 400mA.	ss 3 power or les	ss (see SD). This			

C/ 33 SC 33.3.3.9 Stewart, Heath	P 139 Linear Techno	L 1 blogy	# 142	Cl 33 SC 33.3.3. Stewart, Heath	16 P 146 Linear Tech	L 1 nology	# 145
Comment Type E do_class_timing is only SuggestedRemedy Change measuring the length of To measuring the length of	Comment Status D y performed in the first class of of the class event.	event.	Editorial	Comment Type TR Why does a Type 3 d signature PD does n SuggestedRemedy Add INRUSH state a Proposed Response PROPOSED ACCEF	Comment Status D or 4 single-signature PD requi ot? s in single-signature Type 3/4 Response Status W T.	re the INRUSH s	PD SD
Proposed Response PROPOSED ACCEPT	Response Status W			Cl 33 SC 33.3.3. Stewart, Heath	15 P 144 Linear Tech	L 42 nology	# 146
Cl 33 SC 33.3.3.10 Stewart, Heath Comment Type E DO_CLASS_EVENT6 SuggestedRemedy Change NOTE 1—DO_CLASS is brought into the class To NOTE 1—DO_CLASS is brought into the class Proposed Response PROPOSED ACCEPT	P 142 Linear Techno Comment Status D only deals with the 6th and h _EVENT6 creates a defined I sification range repeatedly. _EVENT6 creates a defined I sification range more than 5 <i>Response Status</i> W	<i>L</i> 1 blogy igher events. behavior for a ⁻ behavior for a ⁻ imes.	# 143 PD SD Type 3 or Type 4 PD that Type 3 or Type 4 PD that	Comment Type E The variable does not the description head SuggestedRemedy Change: PD Modes are referm information is obtain of the Mode of intere M Generic Mode design state diagram and not to Dual-signature PDs a information is obtain of the Mode of intere M	Comment Status D t contain value: description p er. ed to by the letter 'A' or 'B' for ed by replacing the M in the d st. Modes are referred to in g hator. When M is used in a st it global to the set of state dia are implemented on Mode A a ed by replacing the M in the d st. Modes are referred to in g	airs. Instead they Mode A and Mo esired variable o eneral as follows ate diagram, its v grams. and Mode B (see esired variable o eneral as follows	PD SD y have to be pulled out of ode B respectively. Mode or function with the letter value is local to that a 33.3.1). Mode or function with the letter
Cl 33 SC 33.3.3.12 Stewart, Heath Comment Type T	P 142 Linear Techno Comment Status D	L 42 blogy	# 144	Generic Mode design state diagram and no A: Mode A B: Mode B	nator. When M is used in a sta t global to the set of state dia	ate diagram, its v grams.	value is local to that
Can a Type 3 PD draw SuggestedRemedy Remove 0: PD may draw Class Proposed Response PROPOSED ACCEPT	0 power <i>Response Status</i> W		. 2 02	Proposed Response PROPOSED ACCEF Merge with comment	Response Status W T IN PRINCIPLE. 16 (moved this to 33.3.3.1)		

C/ 33 SC 33.3.6 Stewart, Heath	P 149 L 20 Linear Technology	# 147	C/ 33 Stewart, Heat	SC 33.3.7 h	P 153 Linear Technolo	L 44 999	# 149
Comment Type E Awkward phrasing. Bre	Comment Status D ak into two sentences.	Editorial	Comment Typ Missing p	eriod	Comment Status D		Editorial
SuggestedRemedy Change Type 1 PDs and Type 3 (see 33.5) while Type 2 PDs shall provide DLL To Type 1 PDs and Type 3	 3 Class 1 to 3 PDs optionally provide Data Li 2 PDs, Type 3 Class 4 to 6 PDs, Type 4 PDs classification. 3 Class 1 to 3 PDs optionally provide Data L 	ink Layer classification , and dual-signature ink Layer classification	SuggestedRe Add perio This dete Proposed Res PROPOS OBE by 2	medy d at the end o rmination allow sponse ED ACCEPT 38	f vs the PD to make use of short <i>Response Status</i> W IN PRINCIPLE.	t MPS to reduce sta	ndby power
(see 33.5). Type 2 PDs shall provide DLL class	, Type 3 Class 4 to 6 PDs, Type 4 PDs, and ification.	dual-signature PDs	C/ 33 Stewart, Heat	SC 33.3.1 h	P 131 Linear Technolo	L 1	# 150
PIC is unaffected.			Comment Tvr	e TR	Comment Status X		PD Types
Proposed Response PROPOSED ACCEPT.	Response Status W		All single- allows sin one Mode	signature PDs gle-signature	s must be able to operate over l PDs above class 4 and dual-sig	Mode A and B. The gnature PDs to ope	e existing text rate over only
C/ 33 SC 33.3.6	P 149 L 30	# 148	SuggestedRe	medy			
	Lineal Technology		Change				
Comment Type E Description of the reque	Comment Status D ested class is inconsistent with a prior defini aximum.	<i>Editorial</i> tion on line 10 same	to operate	per the PDs w	th a power demand lower or ed lode A column and the PD Moc	qual to Class 4 pow de B column in Tabl	rer shall be able le 33–21.
SuggestedRemedy			to				
Change The requested Class of	f the PD is the amount of power the PD requ	ests from the PSE	PDs shall Table 33-	be able to op -21.	erate per the PD Mode A colum	nn and the PD Mod	e B column in
τ.			Proposed Res	sponse	Response Status W		
To The requested Class of PSE	the PD is the maximum amount of power th	ne PD requests from the	l understa sure what	and both the co to do with this	omment and why the original te s one.	ext is the way it is	Thus I am not
Proposed Response	Response Status W		TFTD				
PROPOSED ACCEPT.			Full origin	al text:			
			The PD s signature operate p PDs may their nom	hall be implem PDs with a po er the PD Moo require being inal power leve	nented to be insensitive to the p wer demand lower or equal to d le A column and the PD Mode supplied over Mode A and Mod el.	colarity of the power Class 4 power shal B column in Table 3 de B simultaneously	r supply. Single- l be able to 33–21. All other / to operate at
			NOTE—F standard.	PDs that imple PDs that are	ment only Mode A or Mode B a sensitive to polarity are specific	are specifically not a cally not a cally not allowed by	allowed by this this standard.
TYPE: TR/technical require COMMENT STATUS: D/dis SORT ORDER: Comment I	d ER/editorial required GR/general required spatched A/accepted R/rejected RESPO	d T/technical E/editorial G/ge NSE STATUS: O/open W/writ	eneral Iten C/closed U	/unsatisfied Z	<i>Comment</i> //withdrawn	t ID 150	Page 39 of 70 10/27/2016 4:57:17 PM

comment Type TR Comment Type E	CI 33 Stowart He	SC 33.3	.2 P	1 32 Dar Technolo	L 3	# 151	C/ 33 Stewart H	SC 3	33.3.3.3		P 133	L 23	# 153
Comment Type 1 2 PDs cannote constructed as dual-signature PDs. This is out of scope of our work as a Task Force. See Table 33-22. Use of a dash is non-traditional in a variable name. Reuse of the IEEE name will not be wardly and shall be in more programming languages as "-" is reserved. Suggested/Remedy Change lines Suggested/Remedy Change lines PDs can be constructed as single-signature or dual-signature as defined in 1.4 and 33.3.5. Use of a dash is non-traditional in a variable name. Reuse of the IEEE name will not be wardly and the and 33.3.5. or PDs can be constructed as single-signature or dual-signature as defined in 1.4 and 33.3.5. Ib or PDS can be constructed as single-signature or dual-signature as defined in 1.4 and 33.3.5. W Proposed Response Response Status W PROPOSED REJECT. 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. This is the Type 1, 2 State Diagram. We are not touching it unless comments against it and value and the under the of the TRUE and FALSE descriptions Cl 33 SC 33.3.3 P132 L 47 # [152] Comment Type E Comment Status D Editorial ha variable achine variables can hold and the description. Suggested/Remedy Change all variable description vs TRUE-tab-description Suggested/Remedy Cas a Type 3 D draw Class 0 power?	Commont 7		Commont Statu		Jgy		Commont	Tuno	-	Commont S		Jiogy	Maintananaa
SuggestedRemedy Change lines PDs can be constructed as single-signature or dual-signature as defined in 1.4 and 33.3.5. SuggestedRemedy or Or 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. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Change to: Or dual-signature as defined in 1.4 and 33.3.5 and shown in Table 33-22. C/33 SC 33.3.3 P 132 L 47 # [152] 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. C/33 SC 33.3.3.7 P 136 L 48 # [154] 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. C/33 SC 33.3.3.7 P 136 L 48 # [154] 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. C/33 SC 33.3.3.7 P 136 L 48 # [154] Stewart, Heath Linear Technology Comment Type E Comment Type Technology Comment Type Technology Comment Type Technology C/33 SC 33.3.3.7 P 137 L 11	Type 1 work as	and 2 PDs s a Task Fo	cannot be constructed brce. See Table 33-22.	as dual-sign	ature PDs. TI	nis is out of scope of our	Use of viable	in most	is non-tra programn	ditional in a va	iriable name. s as "-" is rese	Reuse of the IEI erved.	EE name will not be
Change lines PDs can be constructed as single-signature or dual-signature as defined in 1.4 and 33.3.5. Change (globally) pd_2-event 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. Change (globally) pd_2-event or Poposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. W Change to: or dual-signature as defined in 1.4 and 33.3.5 and shown in Table 33-22. C/ 33 SC 33.3.7 P 136 L 48 # 154 Change to: or dual-signature as defined in 1.4 and 33.3.5 and shown in Table 33-22. C/ 33 SC 33.3.7 P 136 L 48 # 154 Change to: or dual-signature as defined in 1.4 and 33.3.5 D Editorial in all versions of the state machine variables section there is inconsistent use of white space to separate the enumerated values the variable can hold and the description suggested/Remedy Comment Type Comment Status D Editorial in all versions of the state machine variables section there is inconsistent use of white space to separate the enumerated values and the description suggested/Remedy Comment Type T Comment Type T Comment Status D Editorial in all versions of the state machine variables section there is inconsistent use of white space to separate the enumerated value and the description suggested/Remedy P 137 L 11 # 155 Suggested/Remedy Comment Type T Comment Type T Comment Sta	Suggested	Remedy					Suggested	Remedy	/				
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. iso pd_2_event 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. PROPOSED REJECT. 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. Ci 33 SC 33.3.7 P136 L48 # 154 Ci 33 SC 33.3.3 P132 L47 # 152 Stewart, Heath Linear Technology Comment Type E Comment Status D Editorial in all versions of the state machine variables section there is inconsistent use of white space to separate the enumated values and hid dedescription. SuggestedRemedy P137 L11 # 155 SuggestedRemedy Change all variable descriptions to contain a -tab> between the enumerated value and the description. SC 33.3.3.7 P137 L11 # 155 SuggestedRemedy Change all variable descriptions to contain a -tab> between the enumerated value and the description. Comment Type T Comment Status D SuggestedRemedy Change all variable descriptions to contain a -tab> between the enumerated value and the description. P137 L11 # 155 SuggestedRemedy Comment Type T Comment Type T Comment Type T Comment Type T Comment Type T Comment Type T Comment Type T Comment Type T Comment Type T <	Change PDs ca	e lines an be const	ructed as single-signatu	re or dual-si	gnature as de	fined in 1.4 and 33.3.5.	Chang pd_2-€	je (globa event	ally)				
or dual-signature as defined in 1.4 and 33.3.5 and shown in Table 33-22. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Page 50: Change to: PDS can be constructed as single-signature P136 L48 # 154 Change to: PDS can be constructed as single-signature P132 L47 # 152 Cl 33 SC 33.3.3 P132 L47 # 152 Comment Type E Comment Status D Editorial In all versions of the state machine variables section there is inconsistent use of white space to separate the enumated values the variable can hold and the description. Editorial SuggestedRemedy Change all variable descriptions to contain a <tab> between the enumerated value and the description. Editor to be given license to implement this change. Proposed Response Response Status W P137 L11 # 155 Stewart, Heath Linear Technology Comment Type To comment Status D Editorial In all versions of the state machine variable can hold and the description. Eg C/ 33 SC 33.3.7 P 137 L 11 # 155 SuggestedRemedy Change all variable descriptions to contain a <tab> between the enumerated value and the description. <td< td=""><td>to Type 3 definec or PDs ca</td><td>and Type d in 1.4 and an be const</td><td>4 PDs can be constructe 33.3.5. ructed as single-signatu</td><td>ed as single- re</td><td>signature or o</td><td>dual-signature as</td><td>to pd_2_0 Proposed I PROP</td><td>event <i>Respons</i> OSED F</td><td>se REJECT.</td><td>Response St</td><td>atus W</td><td></td><td></td></td<></tab></tab>	to Type 3 definec or PDs ca	and Type d in 1.4 and an be const	4 PDs can be constructe 33.3.5. ructed as single-signatu	ed as single- re	signature or o	dual-signature as	to pd_2_0 Proposed I PROP	event <i>Respons</i> OSED F	se REJECT.	Response St	atus W		
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Change to: Change to: PDS can be constructed as single-signature Change to: or dual-signature as defined in 1.4 and 33.3.5 and shown in Table 33-22. Cl 33 SC 33.3.3 P 132 L 47 # 152 Cl 33 SC 33.3.3 P 132 L 47 # 152 Stewart, Heath Linear Technology Comment Type E Comment Status D Editorial In all versions of the state machine variables section there is inconsistent use of white space to separate the enumated values the variable as hold and the description. Eg TRUE:description vs TRUE: <space>description vs TRUE:<tab>escient to so ontain a <tab> between the enumerated value and the description. Editor to be given license to implement this change. Proposed Response Response Status D Editor to be given license to implement this change. Editor to be given license to implement this change. SuggestedRemedy SuggestedRemedy SuggestedRemedy Can a Type 3 PD draw Class 0 power? Editor to follow any LEEE child audid all we description as the proposed Response Response Status W Proposed Response Response Status W Can a Type 3 PD draw Class 0 power? Editor to be given license to implemention this change. Editor to be given l</tab></tab></space>	or dual	-signature	as defined in 1.4 and 33	.3.5 and sho	own in Table 3	33-22.	This is are file	the Typ ed as ma	oe 1, 2 Sta aintenance	ate Diagram. \ e requests.	Ve are not to	uching it unless	comments against it
Change to: PDs can be constructed as single-signature Comment Type E Comment Status D Editorial In all versions of the state machine variables section there is inconsistent use of white space to separate the enumated values the variable can hold and the description. E C/ 33 SC 33.3.3 P 132 L 47 # [152] SuggestedRemedy Comment Type E Comment Status D Editorial In all versions of the state machine variables section there is inconsistent use of white space to separate the enumated values the variable can hold and the description. Editorial Proposed Response Response Status W SuggestedRemedy Change all variable descriptions to contain a <tab> between the enumerated value and the description. Editor to be given license to implement this change. Comment Type T Comment Status D Editor Comment Type Editor to be given license to implement this change. Editor to be given license to implement this change. Comment Type T Comment Status D Editor PROPOSED ACCEPT IN PRINCIPLE. Frequence Remove 0: PD may draw Class 0 power Proposed Response Response Status</tab>	Proposed F PROP(Response OSED ACC	Response Status EPT IN PRINCIPLE.	s W			C/ 33 Stewart, H	SC 3 eath	33.3.3.7		P 136 Linear Techn	L 48 plogy	# 154
Cl 33 SC 33.3.3 P 132 L 47 # 152 Stewart, Heath Linear Technology Add a period at the end of lines 48 and 49. Comment Type E Comment Status D In all versions of the state machine variables section there is inconsistent use of white space to separate the enumated values the variable can hold and the description. Eg TRUE:description vs TRUE: <space>description vs TRUE:<tab>description Proposed Response Response Status W SuggestedRemedy Change all variable descriptions to contain a <tab> between the enumerated value and the description. Editor to be given license to implement this change. Comment Type T Comment Status D Edition and the description of the state machine values when implementing this change. Proposed Response Response Status W Editor to be given license to implement this change. Comment Type T Comment Status D Edition and the change. Proposed Response Response Status W Remove 0: PD may draw Class 0 power Edition and the class 0 power Proposed Response Response Status W Remove 0: PD may draw Class 0 power Proposed Response Response Status W</tab></tab></space>	Chango PDs ca or dual	e to: an be const -signature :	ructed as single-signatu as defined in 1.4 and 33	33-22.	Comment Missin	<i>Type</i> g period	E at the en	Comment S	tatus D and FALSE	descriptions	Editorial		
Comment Type E Comment Status D Editorial In all versions of the state machine variables section there is inconsistent use of white space to separate the enumated values the variable can hold and the description. Eg TRUE:description vs TRUE: <space>description vs TRUE:<space>description vs TRUE:<space>description vs TRUE:<space>description vs TRUE:<stab>description Proposed Response Response Status W SuggestedRemedy Change all variable descriptions to contain a <tab> between the enumerated value and the description. Stewart, Heath Linear Technology Comment Type T Comment Status D Editor Conspect Response Response Status W Editor Proposed Response Response Status W Editor Proposed Response Response Status W Editor PROPOSED ACCEPT IN PRINCIPLE. Froposed Response Response Status W Editor to follow any LEEE style quide rules when implementing this change. Proposed Response Response Status W</tab></stab></space></space></space></space>	C/ 33 Stewart, He	SC 33.3 eath	.3 P Line	132 ear Technolo	L 47 Dgy	# 152	S <i>uggested</i> Add a	<i>IRemedy</i> period a	/ at the end	of lines 48 and	d 49.		
TRUE:description vs TRUE: <space>description vs TRUE:<tab>description C/ 33 SC 33.3.3.7 P 137 L 11 # 155 SuggestedRemedy Stewart, Heath Linear Technology Change all variable descriptions to contain a <tab> between the enumerated value and the description. Comment Type T Comment Status D Edit Editor to be given license to implement this change. SuggestedRemedy SuggestedRemedy Editor to be given license to implement this change. SuggestedRemedy Remove Editor to follow any IEEE style guide rules when implementing this change. SuggestedRemedy Remove Proposed Response Response Status W Feditor to follow any IEEE style guide rules when implementing this change. Proposed Response Response Status W</tab></tab></space>	Comment T In all ve	<i>Type</i> E ersions of t	Comment Statu he state machine variab	s D les section t	here is incons	<i>Editorial</i> sistent use of white be description. Eq.	Proposed PROP	Respons OSED A	se ACCEPT.	Response Si	atus W		
SuggestedRemedy Stewart, Heath Linear Technology Change all variable descriptions to contain a <tab> between the enumerated value and the description. Comment Type T Comment Status D Edit Editor to be given license to implement this change. SuggestedRemedy SuggestedRemedy Remove 0: PD may draw Class 0 power Editor to follow any IEEE style guide rules when implementing this change. Proposed Response Response Status W Proposed Response 0: PD may draw Class 0 power PC PO POWER PC POWER</tab>	TRUE:	description	vs TRUE: <space>desc</space>	ription vs TF	RUE: <tab>des</tab>	scription	C/ 33	SC 3	33.3.3.7		P 137	L 11	# 155
Change all variable descriptions to contain a <tab> between the enumerated value and the description. Comment Type T Comment Status D Edi Can a Type 3 PD draw Class 0 power? Editor to be given license to implement this change. SuggestedRemedy Editor to segonse Status W Remove 0: PD may draw Class 0 power? Remove 0: PD may draw Class 0 power Proposed Response Status W Remove 0: PD may draw Class 0 power Proposed Response 0: PD may draw Class 0 power W</tab>	Suggested	Remedy					Stewart, He	eath			Linear Techn	ology	
Editor to be given license to implement this change. SuggestedRemedy Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. 0: PD may draw Class 0 power Editor to follow any IEEE style guide rules when implementing this change Proposed Response Response Status W	Change descrip	e all variabl otion.	e descriptions to contair	n a <tab> be</tab>	tween the en	umerated value and the	<i>Comment</i> Can a	<i>Type</i> Type 3 I	T PD draw (<i>Comment</i> S Class 0 power	tatus D ?		Editorial
Proposed Response Response Status W Remove PROPOSED ACCEPT IN PRINCIPLE. 0: PD may draw Class 0 power Editor to follow any IEEE style guide rules when implementing this change Proposed Response Response Status W	Editor t	to be given	license to implement thi	is change.			Suggested	Remedy	/				
Proposed Response Response Status W	Proposed F PROP	Response OSED ACC	Response Status	s W			Remov 0: PD	ve may dra	w Class 0) power			
Lottor to ronow any ILLE style guide rules when implementing this change. PROPOSED ACCEPT.	Editor t	to follow an	y IEEE style guide rules	when imple	ementing this	change.	Proposed PROP	Respons OSED A	se ACCEPT.	Response Si	atus W		

C/ 33 SC 33.3.6.3 P 153 L 19 # 156 Stover, David Linear Technology	C/ 33 SC 33.2.1 P 55 L 25 # 158 Stover, David Linear Technology
Comment Type E Comment Status D Editorial Units for Table 33-18 and Table 33-30 (PSE and PD Autoclass timing, respectively) are mismatched. E	Comment Type ER Comment Status D Editorial Accepted remedy in Comment #11 against D2.0 was not fully implemented in D2.1. Summed all Demodel D Editorial
SuggestedRemedy Specify all items in Table 33-30 in seconds, to match PSE Table 33-18.	Add a superscript "1" to column headings "Physical Layer Classification" and "Data Link Layer Classification".
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	Proposed Response Response Status W PROPOSED ACCEPT.
TACS should be in ms. Change Tauto_pd1 and Tauto_pd2 to seconds (s).	C/ 33 SC 33.2.4 P 63 L 37 # 159 Stover, David Linear Technology
I don't believe there is a rule saying all timing parameters in a table have to have the same unit	Comment Type ER Comment Status D Editorial Comment #496 against D2.0 was implemented incorrectly. Editorial Editorial
Cl 1 SC 1.4 P 20 L 43 # 157 Stover, David Linear Technology Linear	SuggestedRemedy Move "in legacy systems, such as 10BASE-T and 100BASE-TX" to the end of the sentence beginning with "Therefore, Alternative A matches the positive voltage"
Comment Type T Comment Status D Definitions Definition of Type 3 PD does not include "is capable of Data Link Layer classification", as Type 4 PD does, However, DLL is mandatory for both Type 3 and Type 4 PDs. Definitions	Proposed Response Response Status W PROPOSED ACCEPT.
SuggestedRemedy Change:	C/ 33 SC 33.2.5.1 P 64 L 64 # 160 Stover, David Linear Technology 160
"A PD that requests Class 1 to Class 6 during Physical Layer classification, implements Multiple-Event classification, and accepts power on both Modes simultaneously." To:	Comment Type ER Comment Status D Editorial Comment #497 against D2.0 was implemented incorrectly. Editorial Editorial
"A PD that requests Class 1 to Class 6 during Physical Layer classification, implements Multiple-Event classification, is capable of Data Link Layer classification, and accepts power on both Modes simultaneously."	SuggestedRemedy Make all entries in parenthesis "(Detection, Connection Check, Classification" lower case.
Proposed Response Response Status W PROPOSED REJECT.	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
Class 1 to 3 Type 3 PDs are not required to support DLL. (We had this discussion previously and decided to leave it out of the definition).	OBE by 175

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C/ 33	SC 33.2.5.9	P 82	L 25	# 161	CI 33	SC	33.2.8	P 116	L 37	# 164
Stover, D	avid	Linear Techno	ology		Stover, D	avid		Linear Tech	nology	
Comment	Type ER	Comment Status D		PSE SD	Comment	t Type	т	Comment Status D		PSE Power
Туро	in Table 33-7. Ty	pe 3 PSEs obviously cannot	set class_num_	_events_pri/_sec to "4"	TDL I	D2.0 #51	10 - Intra-p	air Current Unbalance		
Suggeste	dRemedy				Suggeste	dRemed	ły			
Chan	ge intersection of	"Type 3" and "class_num_ev	/ents_pri" fro	m "1, 2, 4" to "1, 2"	Chan	ge lunb,	max from '	'3% * I_Peak" to "3% * I_P	eak-2P_unb"; refe	erence 33.2.8.4 in
Proposed	Response	Response Status W			Droposod	l Pospor	200	Deenenee Statue M		
PRO	POSED ACCEPT	IN PRINCIPLE.						Response Status W		
OBE	by 178					OGLD	AUGEI I.			
					CI 33	SC	33.2.5.12	P 89	L 1	# 165
					Stover, D	avid		Linear Tech	nology	
C/ 00	SC O	Р	L	# 162	Comment	t Type	TR	Comment Status X		Pres: Stover1
Stover, D	avid	Linear Techno	ology		Some	e optiona	al behavior	s described in text are miss	sing from PSE SE).
Comment	Type TR	Comment Status X		Pres: Paul1	Suggeste	dRemed	ły			
TDL I	02.0 #513 - Syste	m Unbalance Requirements			See s	stover_0	1_1116.pd	f		
Suggeste	dRemedy				Proposed	l Respor	nse	Response Status W		
See p	oaul_01_1116.pdf				WFP					
Proposed	Response	Response Status W			TETC)				
WFP										
TETC	1				CI 33	SC	33.2.5.12	P 89	L 51	# 166
					Stover, D	avid		Linear Techi	nology	
CI 33	SC 33.2.5.12	P 89	<i>L</i> 1	# 163	Comment	t Type	TR	Comment Status D		PSE SD
Stover, D	avid	Linear Techno	ology		"sig_t	type = o	pen_circ", e	enumeration "open_circ" n	o longer exists.	
Comment	Туре Е	Comment Status D		Editorial	Suggeste	dRemea	ły			
"Туре	a 3 an Type 4 stat	e diagrams" Heading name h	ias a typo.		Repla CXN	CHK F	n_circ" witl	n "invalid" in 3 locations: IE	DETECT EVAL	on out of
Suggeste	dRemedy				Pronosed	Respor		Posponso Status W		
Chan	ge "an" to "and"				PRO	POSED	ACCEPT			
Proposed	Response	Response Status W			1 101	JULD				
PRO	POSED ACCEPT	IN PRINCIPLE.								
OBE	by 82									

CI 33	SC 33.2.5.12	<i>P</i> 91	L 40	# 167	C/ 1 SC 1.4
Stover, Da	avid	Linear Technolo	рду		Yseboodt, Lennart
Comment	Type TR	Comment Status X		PSE SD	Comment Type TR C
Some to "IDI	arcs point to "A", LE" (is there an a	, which used to be entry to glob ccepted comment associated v	al IDLE. Poin	ter has been changed ge?)	These are the definitions for - 1.4.415 Type 1
Suggested	dRemedy				Physical Layer classificatior - 1 4 416 Type 1 1
Repla	ce pointers to "A"	with pointers to "IDLE" (4 loca	tions).		Clause 33).
Proposed	Response	Response Status W			1.4.417 Type 2 - 1.4.417 Type 2
TFTD	should it be IDLE	E or A???			classification (see IEEE 802
This c	comment will be u	sed to OBE all related comme	nts.		- 1.4.418 Type 2 IEEE 802 3 Clause 33)
<u> </u>	CC 00 0 5 40	D 00	1.40	# [100	
CI 33 Stover Dr	SC 33.2.5.12	P 93	L 10	# 168	These definitions
			yyy	505.05	SuggestedRemedy
Comment	<i>Type</i> I	Comment Status D		PSE SD	Proposed revision:
active	ss_iim_det_pri an	d _sec return faise when do_	Classification_	_pri and _sec are "not INTRY SEC is	classification.
unnec	cessary.				- Type 1 PSE: A I
Suggestee	dRemedy				power over 2-pair. - Type 2 PD: A Pl
Remo	ve assignment of	"false" to iclass_lim_det_pri a	nd _sec in EN	ITRY_PRI and	supports Multiple-Event Cla
ENTR	RY_SEC				- Type 2 PSE: A I
Proposed	Response	Response Status W			Proposed Response D
PROF	POSED ACCEPT.				
CI 33	SC 33.2.5.9	P 77	L 17	# 169	
Stover, Da	avid	Linear Technolo	gy		Implement suggest remedy
Comment	Type T	Comment Status D		PSE SD	
Defini	tion and usage of	iclass_lim_det and _det_pri/_e	det_sec is inc	onsistent.	C/ 30 SC 30.12.2.1
Suggester	dRemedv				Yseboodt, Lennart
Add "	or this function is	not active" to the end of the FA	LSE value fo	r iclass lim det.	Comment Type TR C
Remo Proposed	ve the assignmer	nt "iclass_lim_det <= FALSE" f	rom global IDI	LE state.	30.12.2.1.18a through 30.12 measurement text for LLDP
PROF		Response Status W			SuggestedRemedy
	OULD AUGEL 1.				Remove these sections.
					Proposed Response Re
					PROPOSED ACCEPT.

Philips Comment Status D Definitions Type 1/2 PSE/PD in the base standard: PD: A PD that does not provide a Class 4 signature during (see IEEE 802.3, Clause 33). PSE: A PSE that supports only a Type 1 PD (see IEEE 802.3, PD: A PD that provides a Class 4 signature during Physical tands 2-Event classification, and is capable of Data Link Layer 2.3. Clause 33). PSE: A PSE that supports both a Type 1 and a Type 2 PD (see don't align well with our Type 3 and Type 4 definitions. D that requests Class 0 to Class 3 during Physical Layer PSE that supports up to Class 3 power levels and provides D that requests Class 4 during Physical Layer classification, ssification and Data Link Laver Classification. PSE that supports up to Class 4 power level and provides esponse Status W RINCIPLE. but add the references to IEEE 802.3, Clause 33 to each P 36 L 6 # 171 Philips Comment Status D Management 2.2.1.18d are remnants of older PSE/PD voltage and current

P 20

L 15

170

esponse Status W

Yseboodt, Lennart Philips Yseboodt, Lennart Philips Comment Type TR Comment Status D Management Comment Type E Comment Status D 30.12.3.1.18a through 30.12.3.1.18d are remnants of older PSE/PD voltage and current measurement text for LLDP. Management "The polarity of PSE voltages during its operating states (Detection, Connection Ch Classification, Power up and Power on) is the same as was used in the Detection s defined per Table 33-3 in 33.2.4." SuggestedRemedy Remove these sections. Why use Capital letters for the operating states? Also comma before "and" is missin states Proposed Response Response Status W SuggestedRemedy	Editorial eck, ate and g. k, ite and
Comment Type TR Comment Status D Management 30.12.3.1.18a through 30.12.3.1.18d are remnants of older PSE/PD voltage and current measurement text for LLDP. The polarity of PSE voltages during its operating states (Detection, Connection Ch Classification, Power up and Power on) is the same as was used in the Detection s defined per Table 33-3 in 33.2.4." SuggestedRemedy Remove these sections. Why use Capital letters for the operating states? Also comma before "and" is missing states. Proposed Response Response Status W SuggestedRemedy	Editorial eck, ate and g. k, ite and
30.12.3.1.18a through 30.12.3.1.18d are remnants of older PSE/PD voltage and current measurement text for LLDP. SuggestedRemedy Remove these sections. Proposed Response Response Status W The polarity of PSE voltages during its operating states (Detection, Connection Ch. Classification, Power up and Power on) is the same as was used in the Detection s defined per Table 33-3 in 33.2.4." Why use Capital letters for the operating states? Also comma before "and" is missing SuggestedRemedy SuggestedRemedy	eck, ate and ıg. :k, ıte and
Suggested removy Remove these sections. Why use Capital letters for the operating states? Also comma before "and" is missi Proposed Response Response Status W Suggested Remedy	ng. ∺k, ite and
Proposed Response Status W Suggested Remedy	ıg. :k, ıte and
Proposed Response Status w SuggestedRemedy	xk, ite and
	ж, ate and
C/ 33 SC 33.1.4.1 P 54 L 10 # 173 Ysehoodt Lennart Philips Change to: The polarity of PSE voltages during its operating states (detection, connection che classification, power up, and power on) is the same as was used in the detection st defined per Table 33-3."	
Comment Type TR Comment Status D Cabling We list a number of key parameters and their description in this section. Rch is missing. Cabling Proposed Response Response Status W	
SuggestedRemedy CI 33 SC 33.2.5.4 P 66 L 6 # 176	
Add the following before the Rchan description: Yseboodt, Lennart Philips	
"Rch is the highest DC pairset loop resistance. The supported value of Rch depende on the RSE Type and is defined in Table Comment Type ER Comment Status D	PSE SD
33-1." Legacy state diagram, variable error condition, refers to wrong Figures:	
Proposed Response Response Status W "These error conditions are different from those monitored by the state di in Figure 33-21, Figure 33-22, and Figure 33-23."	ıgrams
PROPOSED ACCEPT. SuggestedRemedy	
C/ 33 SC 33.1.4 P 54 L 11 # 174 Change to: Yseboodt, Lennart Philips These error conditions are different from those monitored by the state divide the state di	agrams
Comment Type TR Comment Status D Editorial Proposed Responses Description M	
"R Chan is the actual DC loop resistance from the PSE PI to the PD PI and back." PROPOSED ACCEPT.	
The text explains a couple paragraphs back that 'DC loop resistance' is a term used in the cable standards, which doesn't match our numbers.	
So we need to avoid using this term here. We also need to sync that to the Rchan-2P definition.	
SuggestedRemedy	
"R Chan is the actual resistance from the PSE PI to the PD PI and back."	
Change Rchan-2P to: "R Chan-2P is the actual pairset resistance from the PSE PI to the PD PI and back."	
Proposed Response Response Status W	
PROPOSED ACCEPT.	

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

Cl 33	SC 33.2.5.9	P 76	L 54	# 177	C/ 33	SC 33.2.5.12	P 89 Philips	L 39	# 180
Comment	Type ER	Comment Status D		PSE SD	Comment	Type E	Comment Status D		PSE SD
New s	tate diagram, var "These error	iable error_condition, refers to conditions are different from the	wrong Figures	s: d by the state diagrams	Figure	e 33-15, state IDL	E to START_CXN_CHK_DE1	ECT:	
in Fig Suggester	ure 33-26." dRemedy				(CC_ * pse_	DET_SEQ = 2) * (_ready * !(pwr_ap)	pse_alternative = both) p_pri + pwr_app_sec) *		
Chan	ge to: "These error	conditions are different from th	ose monitore	d by the state diagrams	(pse_	enable = enable)	/+ at and of line when splitting	n over multiple lines	
in Fig	ure 33-21, Figure	33-22, and Figure 33-23."			Suggaata			g over multiple intes.	
Proposed	Response	Response Status W			Suggeste	* to end of first se	ontence		
PROF	POSED ACCEPT.				(CC_ pse_r	DET_SEQ = 2) * (eady * !(pwr_app_	pse_alternative = both) * _pri + pwr_app_sec) *		
C/ 33	SC 33.2.5.9	P 82	L 30	# 178	(pse_	enable = enable)			
Yseboodt,	Lennart	Philips			Proposed	Response	Response Status W		
Comment	Type TR	Comment Status X		Pres: Yseboodt1	PROF	POSED ACCEPT.			
The c	hanges adopted l For instance,	ast cycle that introduced Table according to Table 33-7 and 3	33-8 have iss 3-8, a Type 4	sues. PSE cannot deliver	CI 33	SC 33.2.5.12	P 89	L 44	# 181
anythi	ing but Class 7 or	8.			Yseboodt	, Lennart	Philips		
Suggestee The p	<i>dRemedy</i> roposed remedy i	s to simplify the classification	state diagram,	to only use	Comment From	Type TR START CXN CH	Comment Status D	missina.	PSE SD
pse_a	vail_power and n Adopt ysebo	o longer use class_num_event odt_01_1116_simpleclass.pdf	S.		Suggeste	dRemedy		5	
Proposed	Response	Response Status W			Add e	xit branch "tdet_ti	mer_done" to IDLE		
WFP					Proposed		Response Status W		
TFTD						OOLD ACCELL.			
C/ 33	SC 33.2.5.12	P 89	L 6	# 179					
Yseboodt,	Lennart	Philips							
Comment Linew	<i>Type</i> E idth of IDLE line t	Comment Status D oo thick		Editorial					
Suggestee Make	dRemedy line thickness the	e same as the other arrows							
Proposed PROF	Response POSED ACCEPT.	Response Status W							

Cl 33	SC 33.2.5.12	P 91	L 35	# 182	C/ 33	SC 33.2.	5.12	P 92	L 36	# 184	
Yseboodt,	Lennart	Philips			Yseboodt	, Lennart		Philips			
Comment In exit	<i>Type</i> TR branch DETECT_	<i>Comment Status</i> D EVAL to IDLE the brackets	around CC_DET	<i>PSE SD</i> _SEQ 0 or 3 are	Comment In nev	<i>Type</i> E w frame state	C diagram	Comment Status D Figure 33-15 label IDLE	is used and no	PSE SD of A anymore.	
(pse_a ((det_t (det_ta ((CC_ (det_ta (pse_a	ig. alternative = both) temp = only_one) emp = both_neithe DET_SEQ = 0) + + emp = only_one) * alternative != both	* * (sig_pri != valid) + er) * (sig_sec != valid) + (CC_DET_SEQ = 3) * tdet2det_timer_done)) +) * (sig_pri != valid)			SuggestedRemedy Change label A to IDLE (twice) Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. OBE by 167						
Suggested Add b	<i>Remedy</i> rackets around C0	C_DET_SEQ 0 or 3			Cl 33	SC 33.2.	5.12	P 96	L 5	# 185	
Add brackets around CC_DET_SEQ 0 or 3 (pse_alternative = both) * ((det_temp = only_one) * (sig_pri != valid) + (det_temp = both_neither) * (sig_sec != valid) + (((CC_DET_SEQ = 0) + (CC_DET_SEQ = 3)) * (det_temp = only_one) * tdet2det_timer_done)) + (pse_alternative != both) * (sig_pri != valid) Proposed Response Response Status W PROPOSED ACCEPT.					Comment Type TR Comment Status D P The IF statement in CLASS_EVAL_SEC does not match with CLASS_EVAL_PRI. Comment #212 against D2.0, made changes in _PRI, but not in _SEC. I ass this was forgotten ? EVAL_PRI: "IF (pd_cls_4PID_pri * (sig_pri = valid) * ((sig_sec = valid) + pwr_app_sec)) THEN" EVAL_SEC: "IF (pd_cls_4PID_sec * (sig_sec = valid) * (sig_pri = valid) + pwr_app_pri) THEN"						
CI 33 Yseboodt, Comment	SC 33.2.5.12 Lennart Type E	P 91 Philips <i>Comment Status</i> D	L 40	# [183	Suggeste Chan THEN	dRemedy ge the IF stat "IF (pd_c J"	ement in s_4PID	CLASS_EVAL_SEC to _sec * (sig_sec = valid)	read: * ((sig_pri = val	id) + pwr_app_pri))	
In new	r frame statediagra	am Figure 33-15 label IDLE	is used and not A	A anymore.	Proposed	Response	R	esponse Status W			
Suggested Chang	<i>Remedy</i> ge label A to IDLE				PRO	POSED ACCI	EPT IN F	PRINCIPLE.			
Proposed PROP	Response OSED ACCEPT I	Response Status W N PRINCIPLE.			OBE	by 66					
OBE b	by 167										

CI 33	SC 33.2.5.12	P 97	L 52	# 186	CI 33 S	SC 33.2.6.2	P 103	L 21	# 189
Ysebood	t, Lennart	Philips			Yseboodt, Len	nart	Philips		
Commen	t Type E	Comment Status D		PSE SD	Comment Type	e T	Comment Status D		PSE Detection
In ne	w frame statediag	ram Figure 33-18 label IDLE i	s used and not	A anymore.	"The PSE as specifie	shall not be o d in Table 33	damaged by up to 5 mA back 3-10."	kdriven current ov	ver the range of V oc
Suggeste	edRemedy								
Char	ige label A to IDLE	:				Voc is not a r	ange, it is a maximum.		
Proposed	l Response	Response Status W			SuggestedRen	nedy			
PRO	POSED ACCEPT	IN PRINCIPLE.			"The PSE oc as spec	shall not be o	amaged by up to 5 mA back	kdriven current up	o until a voltage of V
OBE	by 167				Proposed Res	ponse	Response Status W		
CI 33	SC 33 5 12	P 101	18	# 187	PROPOSE	ED ACCEPT	IN PRINCIPLE.		
Ysebood	t, Lennart	Philips	20	" 107	TETO				
Commen	t Type T	Comment Status X		PSF SD	IFID				
"alt_p	owrd_pri * !pwr_ap	pp_pri" in exit branch IDLE_IN	RUSH_PRI is r	not correct.	Can't we ju text.	ust put "0" inte	o the min column and leave	the text as is. I d	on't like the suggested
The i	nrush SD is stuck	in IDLE_INRUSH this way.			Or how ab	out:			
Suggeste	edRemedy				"The PSE	shall not be o	damaged by up to 5 mA back	kdriven current fo	r any voltage less than
Char	ige to "alt_pwrd_p	ri".			or equal to	V oc as spe	cified in Table 33-10."		
Proposed	l Response	Response Status W			C/ 33 S	SC 33.2.6.7	P 105	L 37	# 190
TFTE)				Yseboodt, Len	nart	Philips		
l don !pwr_ get s	't understand how _app_pri says you tuck is if you go fr	the SD is stuck. Alt_pwrd_p are not yet at full operating c om IDLE to POWER ON with	i says you are/ urrent (POWER out going throu	will apply power while 2_ON). The only way to gh inrush, right?	<i>Comment Type</i> "The PSE been appli	e E detects a val ed to a pairse	Comment Status D id detection signature on the et"	e unpowered pairs	<i>Editorial</i> set when power has
See	188				Rather ine	legant wordir	ng.		
CI 33	SC 33 5 12	P 101	18	# 188	SuggestedRen	nedy			
Ysebood	t, Lennart	Philips	20	π 100	"The PSE provided o	detects a val ver 2-pair"	id detection signature on the	e unpowered pairs	et when power is
Commen	t Type T	Comment Status X			Proposed Res	ponse	Response Status W		
"alt_p	owrd_sec * !pwr_a	pp_sec" in exit branch IDLE_	INRUSH_SEC	is not correct.	PROPOSE	ED ACCEPT	IN PRINCIPLE.		
The i	nrush SD is stuck	in IDLE_INRUSH this way.			"The DSE	detects a val	id detection signature on the	uppowered pairs	et when nower is
Suggeste	edRemedy				provided o	ver a single p	pariset"		set when power is
Char	ige to "alt_pwrd_s	ec".							
Proposed	l Response	Response Status W							
TFTE)								
See	187								
TYPE: TH COMMEN SORT OF	R/technical require NT STATUS: D/dis RDER: Comment	d ER/editorial required GR/g spatched A/accepted R/rejec	jeneral required ted RESPOI	d T/technical E/editorial G/g NSE STATUS: O/open W/w	general ritten C/closed U/	unsatisfied Z	Comme Z/withdrawn	ent ID 190	Page 47 of 70 10/27/2016 4:5

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C/ 33 SC 33.2.7	P 105	L 49	# 191	CI 33	SC 33.2.7	7 P 106	L 15	# 193
Yseboodt, Lennart	Philips			Yseboodt	Lennart	Philips		
Comment Type E	Comment Status D		Edit	torial Comment	Type TR	Comment Status D		PSE Class
" mutual identificati Serial comma. SuggestedRemedy	on allows Type 2, Type 3 or Ty	ype 4 PSEs to d	ifferentiate"	"Base outpu suppo powe Equat	d on the assig of the PSE is rts at the PI. I level support ion (33-3)."	gned Class to a single-signatu s P Class as shown in Equatic Based on the assigned Class ted for a pairset at the output o	re PD, the minimu n (33-2). P Class i to a dual-signature of the PSE is P Cla	m power level at the is the power the PSE PD, the minimum ass-2P as shown in
" mutual identificati	on allows Type 2, Type 3, or T	Type 4 PSEs to c	lifferentiate"					
Proposed Response	Response Status W			This i and 3	formation is i 3-3.	repeated 2 paragraphs later, in	n the text that goes	s with Equation 33-2
	1.			Suggeste	lRemedy			
Thank you Lennart. I commas every meeti TFTD	I will offer a beer to whoever finns.	nds and fixes the	e most missing serial	l Repla "The a level t minim	ະe paragraph ssigned Clas າe PSE supp um power lev	by this: so to a single-signature PD det orts at the PI, as defined in Ec vel is PClass-2P, defined per p	ermines PClass, tl juation (33-2). For airset in Equation	he minimum power a dual-signature, this (33-3)."
C/ 33 SC 33.2.7	P 106 Philips	L 7	# 192	Proposed PROF	Response OSED ACCE	Response Status W		
Comment Type FR	Comment Status D		Edi		<u> </u>	7	/ 27	# 404
The text flow of 33.2.	7 isn't entirely logical.		Lun	Yseboodt	Lennart	Philips	L 31	# 194
SuggestedRemedy Do the following: - Split the paragraph (@ 'The assigned C - Move the paragraph	that starts on page 106,I 5 at I lass is') s at line 20 ("The PSE shall p	line 7 vrovide VClass")	to line 7	Comment "PCla Non-p	<i>Type</i> E ss_PD is the formation of the	Comment Status D he PDs power classification (s to link to a Table and inconsis	ee Table 33-27)" tent with Equation	Editorial 33-3
Proposed Response Response Status W				Suggester "PCla	<i>Remedy</i> ss_PD is t	he PDs power classification as	s defined in Table :	33-27"
PROPOSED ACCEP	·1.			Proposed PROF	Response OSED ACCE	Response Status W		
				OBE	y 195			

CI 33	SC 33.2.7	P 106	L 37	# 195	C/ 33	SC 33.2.7	P 107	L 10	# 197
Yseboodt,	Lennart	Philips			Yseboodt, Le	ennart	Philips		
Comment .	Туре Т	Comment Status D		PD Power	Comment Ty	vpe TR	Comment Status X		Pres: Yseboodt3
In equa "is the	ation 33-2, the de PD's power clas	escription of PClass_PD is: sification (see Table 33-27)"			Table 33)"	3-13 is titled "F	Physical Layer power classifi	cations for single-	signature PDs (P Class
Suggested	Remedy				Table 33	8-14 is title "Pl	nysical Layer power classific	ation for dual-sign	ature PDs (P Class-2P
Would "is the 27"	be better stated maximum power	as: · at the PD PI per the PDs a	ssigned Class, a	s defined in Table 33-) We neve that Typ to verify	er say which P e 1/2 PSEs ne that the PD is	PSE Type needs to use which eed single-signature, which they	n Table. Even if w	e did, it would suggest
- Eq 33	se this descriptio 3-27, page 159				SuggestedR	emedy			
- Eq 33	3-29, page 161				Propose	d is to:			
Proposed F	Response OSED ACCEPT.	Response Status W			- Make 1 - Create	able 33-13 ar a new Table i	nd 33-14 into Type 3/4 PSE in the same style for Type 1/	Tables 2	
CI 33	SC 33.2.7	P 106	L 52	# [196	This also 13.	o allows us to	clean up some of the oddba	Il cases around Cl	ass 0 from Table 33-
Yseboodt,	Lennart	Philips			Adopt vs	eboodt 03 1	116 nclasstable ndf		
Comment ⁻	Туре Т	Comment Status D		PD Power	Proposed R		Boononoo Statuo W		
In equa "is the	ation 33-3, the de PD's power clas	escription of PClass_PD-2P sification as defined Table 3	is: 3-28"		WFP	esponse	Response Status W		
Suggested	Remedy				TFTD				
Would "is the Table :	be better stated maximum power 33-28"	as: · at the PD PI for a pairset p	er the PDs assig	ned Class as defined in	C/ 33 Yseboodt, Le	SC 33.2.7	P 108 Philips	L 12	# [198
Also us	se this descriptio	n for			Comment Ty	/pe ER	Comment Status D		PSE Class
- Ey sa	Boononoo	Desmanas Clature MI			Class.	s-15 introduce	s the mapping between PSE	AllocaledPowerva	alue and the Assigned
Proposed PROP	OSED ACCEPT.	Response Status w			this poin	Neither the tin the text.	PD power numbers, nor any	hing about DLL h	as been introduced at
					SuggestedR	emedy			
					Insert th of the PI	e following se D is":	ntence at page 108, line 11,	before "The Physi	cal Layer classification
					PD may	"The PSEAI draw, PClass	locatedPowerValue values o _PD; see Table 33-27 and 3	orrespond with the 3.5.3.3"	e maximum power a
					Proposed Re	esponse	Response Status W		
					PROPO	SED ACCEPT	, I IN PRINCIPLE.		
					Insert su rearrang	iggested text a led by another	at end of paragraph on line 1 r comment.	2. The preceding	sentences were
TYPE: TR/ COMMEN ¹	technical require	d ER/editorial required GR patched A/accepted R/reje	/general required	d T/technical E/editorial G/ NSE STATUS: O/open W/w	general ritten C/closed	U/unsatisfied	Comr Z/withdrawn	nent ID 198	Page 49 of 70 10/27/2016 4:57:17 P

SORT ORDER: Comment ID

CI 33	SC 33.2.7	P 108	L 50	# 199	CI 33	SC 33.2.7.2	P 110	L 6	# 201
Yseboodt,	Lennart	Philips			Yseboodt	t, Lennart	Philips		
Comment	Type TR	Comment Status D		PSE Class	Commen	t Type E	Comment Status D		Editorial
The TI	agreed to mak	e Physical Layer classification	mandatory for	Type 3/4 PSEs.	"See	Annex 33C for m	ore details and timing diagra	ams."	
See m	otion 6: http://w	ww.ieee802.org/3/bt/public/jar	15/motions_and	1_straw_polls_0115.pdf	Suggeste	edRemedy			
So far	we have not en	coded this in a text requireme	nt.		Sits t	here on a paragra	aph all of its own.	to the and of the	provious percercab
- A PS	E mav be confi	aured to limit the Class or num	at: Iber of class eve	ents it is willing to	Deiui	lgs with the previ			previous paragraph.
provid	e .			j	FIOPOSEC		Response Status W		
- A PS	E may have a p	ower budget limit	lass through DI	1	FRU	FUSED ACCEFT	•		
Suggester	Pomodu	ter power than the assigned e		L	CI 33	SC 33.2.7.2	P 110	L 8	# 202
Insort	the following as	new paragraph in 33.2.7 on r	200 108 line 50	n	Yseboodt	t, Lennart	Philips		
moore	and following us				Commen	t Type TR	Comment Status D		PSE Class
"A Typ means	e 3 or Type 4 P of Physical Lay	PSE shall be capable of assign yer Classification."	ing the highest (Class it can support by	"Type single	e 3 PSEs shall pr e-signature PDs a	ovide a maximum of four cla and a maximum of three clas	ss events and for s events and thre	ur mark events for ee mark events on each
Add to	PICS.				count	ts."	are PDS unless a class reset	event clears the	class and mark event
Proposed	Response	Response Status W							
PROP	OSED ACCEPT	T IN PRINCIPLE.			I WO I	issues: also need to supr	ort the reset statement for s	ingle-signature	
TETD	there are a lot of	of comments on this topic			- the	exception as wor	ded is insufficiently precise		
					Also	here the used of	a dashed list will increase re	adability (with ed	itorial license to decide
C/ 33	SC 33.2.7.1	P 109	L 20	# 200	not to	o do it if it looks b	ad).		
Yseboodt,	Lennart	Philips			Suggeste	edRemedy			
Comment	Туре Т	Comment Status D		PSE Class	"Туре	e 3 PSEs			
"If the	result of the cla	ss event is Class 4, a Type 1	PSE shall assigr	n the PD to Class 0;"	- !	- shall prov	ride a maximum of four class	events and four	mark events for single-
The re	sult of a class e	event is a class signature.			signa	shall pro	vide a maximum of three cla	ss events and th	ree mark events on
Suaaestea	Remedv	-			each	pairset for dual-s	ignature PDs between a clas	ss reset and the	application of power to
"If the	result of the cla	ss event is class signature 4,	a Type 1 PSE sł	nall assign the PD to	that p	bairset.			
Class	D;"			-		Type 4 PSE	s		
Undate	PICS PSE54					- shall prov	ide a maximum of five class	events and five	mark events for single-
Proposed	Response	Response Status M			signa	ature PDs betwee shall pro	n a class reset and the appli- vide a maximum of four class	s events and four	r mark events on each
PROP	OSED ACCEPT	Γ.			pairs pairs	et for dual-signati et."	ure PDs between a class res	et and the applic	ation of power to that
						Update PI	CS accordingly.		
					Proposed	l Response	Response Status W		
					PRO	POSED ACCEPT	-		

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

Comment ID 202

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CI 33	SC :	33.2.7.2	P 110	L 49	# 203	C/ 33	SC	33.2.7.2	P 111	L 26	# 205	
Yseboodt,	Lennar	t	Philips			Yseboodt,	Lenna	rt	Philips			
Comment 7	Туре	TR	Comment Status D		PSE Class	Comment	Туре	ER	Comment Status D		PSE Class	
"All the below ' Reset.'	e mark e V Class "	event states s min and e	s (MARK_EV_) commence and when the PI voltage exc	when the PI or eeds V Class m	pairset voltage falls hin or falls below V	Table 33-17, additional information now (see comment marked YSEBOODT1) only contains references to the section the table is in, with the exception of one reference to a Autoclass section, which immediately follows the table.						
done.	The	description	n is wrong. Mark states end	when the tme1	or tme2 timers are	SuggestedRemedy Remove the additional information column.						
enterin voltage	The The g/leavii s a co	ey are enter text make ng the state	ed when the relevant class s it seem as if the voltage c e, when the state diagram c e of being in a particular sta	timer is done. on the PI is the o learly says timin tte.	cause of ng is leading and	Proposed PROP	Respoi POSED	nse ACCEPT.	Response Status W			
Suaaested	Remed	V	0			(See 2	209)					
This te provide	xt is wr ed elsev	ong, and al where in the	Il relevant information abou e section.	t what to do dur	ing a MARK state is	<i>CI</i> 33 Yseboodt,	SC Lenna	33.2.7.2 rt	P 111 Philips	L 27	# 206	
Proposed I PROP	Respon OSED /	NOVE THE QU SE ACCEPT.	Response Status W			Comment Table	<i>Type</i> 33-17 I Thi	T has becom is is due to	Comment Status D e extremely cramped and vi addition of the PSE Type co	olates the page' olumn.	PSE Class s margins.	
<i>CI</i> 33 Yseboodt,	SC : Lennar	33.2.7.2	P 111 Philips	L 15	# 204	event"	Th colum	e PSE Typ n.	e column is acutally more de	escriptive than t	he "Single/Multiple	
Comment	<i>Type</i> result o	T f the first cl	Comment Status D	e 2 PSE mav	PSE Class	Suggested - Rem	dRemed ove the	<i>dy</i> e 'Single- o	r Multiple Event' column fror	n Table 33-17		
That sh	nould b	e class sig	nature.	,,		Proposed PROP	Respoi POSED	nse ACCEPT.	Response Status W			
Suggested	Remed	y f the first cl	lass event is class signatur	a 4 la Type 2 P	SE may "	CI 33	50	33 2 7 2	D111	1 33	# 207	
Proposed I	Respon	se	Response Status W	5 4, u Type 2 T		Yseboodt,	Lenna	rt	Philips	2 33	# 201	
PROP	, OSED /	ACCEPT.				<i>Comment</i> Table	<i>Type</i> 33-17,	T item 1, Vc	Comment Status D		PSE Class	
						Suggested	dReme	dy				
						Add a facilita	footnot "It i ate debu	te to paran is recomm ugging usii	neter name "VClass" which s ended to use a higher Vclas ng a scope."	states: s for the third cla	ass event. This will	
						Proposed PROP	Respoi POSED	nse REJECT.	Response Status W			
						Huh?	Why a	ire we putti	ng this in the standard?			
						TFTD						
TYPE: TR/	technic	al required	ER/editorial required GR/	general required	d T/technical E/editorial G/g	general			Comme	ent ID 207	Page 51 of 70	

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

CI 33	SC 33.2.7.2	P 112	L 7	# 208	C/ 33	SC	33.2.7.3	P 112	L 36	# 210
Yseboodt,	, Lennart	Philips			Yseboodt,	Lenna	irt	Philips		
Comment	Type TR	Comment Status D		PSE Class	Comment	Туре	TR	Comment Status D		Autoclass
Table Single	33-17, item 10, e-event classifica	on T_pdc is listed only for Ty tion also exists for Type 2 PS	pe 1. SEs.		"If the classif	PSE ir fication	mplements , the PSE s	Autoclass and the connect shall measure P Autoclass	ed PD requests	Autoclass during
Suggeste	dRemedy					Th	e do autor	lassification function return	s variable nd au	Itaclass that describes
Chan	ge Table 33-17, i	tem 10, "PSE Type" from "1"	to "1, 2"		the ab	ove ca	ise.			
Proposed	Response	Response Status W				۱h	ave a TDL	attached to my name that s	ays we need to	use this variable
PROF	POSED REJECT				somev	wnere.				
Looki	na at the 2012 at	andard (AT) the Tode is only	, allowed for Tur			D2	2.0 TDL #38	38		
does	single-event, it st	till has to use TCLE1.	allowed for Typ	e I. II a Type 2 FSE	Suggested	dReme	dy			
	0 /				Replac	ce quo	ted text by:			
IFID					SUDDO	"lf arte Aut	the variable	e pd_autoclass has the valuested Aut	ie 'True', this inc	licates that the PSE
C/ 33	SC 33.2.7.2	P 112	L 22	# 209	classif	fication	. A PSE sh	all measure P_Autoclass w	hen it reaches t	he POWER_ON state
Yseboodt,	, Lennart	Philips			and po	d_auto	class is 'Tru	ue'.		
Comment	Type ER	Comment Status D		PSE Class		Up	date PICS	PSE80		
COM	MENTID YSEBO	ODT1			Proposed	Respo	nse	Response Status W		
inform	Table 33-17 nation field no lor	. Due to the addittion of a Typore fits for item 16	pe column, the te	ext in the Additional	PROP	OSED	ACCEPT	, IN PRINCIPLE.		
intern	"The maxim	um value of T ME2 is limited	by T pon , as de	fined in 33.2.8.13."			······	1		- information of if
Suggeste	dRemedy				Lenna pd au	irt, not itoclass	sure if this s is true the	is what you were going for o	or if you meant to ariable was obvs	o inter that if
Since	this is relevant in	nformation, that belongs in th	e classification s	section, we should not	P					
move	it all the way to 3	33.2.8.13.			TFTD					
	- Convert thi	is text into a footnote to the ta	able.		Replac	ce quo	ted text by:			
	- Empty the	Additional information field for	or item 16			"A	PSE shall	measure P_Autoclass when	h it reaches the	POWER_ON state if the
Proposed	Response	Response Status W			Autocl	le auto lass, ai	nd the do a	autoclassification function re	eturned the varia	ble pd autoclass with a
PROF	POSED ACCEPT				value	of 'True	e', indicatin	g the PD has requested Au	toclass during P	hysical Layer
					classif	fication	ı .			
						Up	date PICS	PSE80		

CI 33 SC 33	3.2.7.3	P 112	L 40	# 211	C/ 33	SC 33.2.8	P 11	4 L	1	# 213
Yseboodt, Lennart		Philips			Yseboodt, Le	nnart	Philips			
Comment Type	E Comme	ent Status D		Editorial	Comment Typ	De ER	Comment Status	D		
"in order to alloc heating."	cate enough powe	r to cope with incre	eases in channel	resistance due to	Table 33- We use in	nconsistent w	al parameter that depe ording in the description	nd on Class. In to point this	out.	
SuggestedRemedy					SuggestedRe	emedy				
"in order to allo	cate enough powe	r to cope with incre	eases in channel	resistance due to	Use the c	construction ".	per the assigned Cla	iss" for item 5,	6, 7, 11, 12, 1	18, and 19
Proposed Pospone					Proposed Re	sponse	Response Status	W		
PROPOSED AC	CCEPT.	se Status w			PROPOS	SED ACCEPT.				
C/ 33 SC 33	3.2.8	P 113	L 38	# 212						
Yseboodt, Lennart		Philips								
Comment Type	ER Comme	ent Status D		Editorial						
POWER_ON SE Has v Accor positive pairs, a voltage diff of 20 I chec definition or the Howe parameter name	value 10mV. rding to that descr ind another 10mV 0mV. cked with Yair and the number. ever - too much inf e and additional in	iption, the PSE can in the negative, re I this is technically ormation is presen formation.	n have 10mV of o sulting in a total v correct, we don't ted in the Table :	lifference between the /_PSE to V_PSE need to change the 33-19, spread over a						
SuggestedRemedy										
Do the following - Cha - Cha - Crea difference" - Witt "VPol same polarity, a	y: inge the paramete inge Additional info ate a new subsect n content: rt_PSE_diff is the at no load condition	r name of item 2 to ormation to "See 3 ion after 33.2.8.1 t maximum voltage n, when operating	o "Output voltage 3.2.8.1a" itled "Output volta difference betwe over 4-pair, in the	pair-to-pair difference" age pair-to-pair en the pairs with the POWER_ON state."						
Proposed Response	e Respons	se Status W								
PROPOSED AC	CCEPT.									

Comment ID 213

Editorial

C/ 33	SC 33.2.8	P 114	L 28	# 214	C/ 33	SC 33.2.8	P 114	L 44	# 215
r sebuuu									
Commer Tabl	e 33-19, Item 6, Ii	nrush.		PSE Inrush	Table :	<i>1 ype</i> IR 33-19, Item 9,	I_Cut-2P.		PSE Power
This For For Wha Clas This	is the specification dual-sig Class 1-4 dual-sig Class 5 it t is the correct lini s 5 on Alt B ? table doesn't say	n for TOTAL 4-pair inrush cu it is 500mA. is 650mA. rush value for a DS PD that <u>c</u> that.	rrent. gets assigned Cl	lass 4 on Alt A, and	ICut-2I How is ICut-2I ICut-2I ILIM-2 uppert Also. I	P is the range it specified rip min is Icon- max is ILIM- max is ILIM- pin itself is a pound templat Cut-2P is "opt	in which the PSE MAY turn ght now ? 2P => this makes perfect se -2P for Type 1/2 PSEs and range, with Class depender e for the maximum. ional" but is in a normative	off due to overload ense. not specified for Ty nt numbers for the r Table with associat	d. pe 3/4 PSEs. minimum, and the PSE ed shall.
Suggest	adRemedy								
The linru	simplest solution i sh = 650mA.	s to specify that if at least on	e pairset gets a	ssigned to Class 5,	Verdic How of defined	t: convoluted, ften is Icut-2P d, once more i	incomprehensible specifica used in the draft ? Precisel in 33.2.8.6.	tion for a simple co y TWICE. Once in	ncept. the Table where it is
- Re	olace "Dual-signat	ure PD_Class 1 to 4" by "Tvi	oe 3 dual-signat	ure PD"	Suggested	Remedy			
- Re	place "Dual-signat	rure PD, Class 5" by "Type 4	dual-signature F	sired behaviour.	- Remo - Repla "If I Po	ove Item 9 fro ace in 33.2.8.6	m Table 33-19 (ICut-2P) 5: rrent supplied on a pairset b	v the PSE to the P	Lexceeds CUT-2P for
		po i loi adal olghataro, tilo			longer	than T CUT-2	2P, the PSE may remove pe	ower from that pairs	set."
The dual a sp	alternate solution, -signature PDs. Th lit dual sig (Class 4	is to remove the linrush min ney follow from the per pairse 4 + 5), it would result in a	imum values for et linrush-2P val	ues anyway. In case of	By: "If I Po longer	rt-2P , the cur than T CUT-2	rrent supplied on a pairset b 2P , the PSE may remove po	y the PSE to the Plower from that pairs	I, exceeds I Con-2P for set."
sligh	tly lower total mini	ium linrush requirement.			Proposed I	Response	Response Status W		
- Ro	move Min values f	or Item 6 linnush for dual-sig	inature		, PROP	, OSED ACCEI	PT.		
- Re - Re	place "Dual-signat	ure PD, Class 1 to 4" by "Typure PD, Class 5" by "Type 4	be 3 dual-signat dual-signature F	ure PD" PD"	TFTD				
Propose	d Response	Response Status W			C/ 33	SC 33.2.8	P 116	L 8	# 216
PRC	POSED ACCEPT	IN PRINCIPLE.			Yseboodt,	Lennart	Philips	-0	
- Re - Re	place "Dual-signat place "Dual-signat	ture PD, Class 1 to 4" by "Typ ture PD, Class 5" by "Type 4	be 3 dual-signat dual-signature F	ure PD" PD"	Comment No par	<i>Type</i> E ameter descri	Comment Status D iption for PSE 1,2 in item 18	Ihold-2P for PSE	<i>Editorial</i> Type 1 and 2.
					Suggested add: "0	<i>Remedy</i> Class 0 to 4"			
					Proposed PROP	Response OSED ACCEI	Response Status W		

<i>CI</i> 33 Wendt, M	SC 33.2.8.4 latthias	<i>Р</i> 118 Philips	L 43	# 217	C/ 33 Yseboodt	SC 33.2.8.5 Lennart	P 120 Philips	L 43	# 219
Comment "I Pea on a p Only : Also ' Suggeste "I Pea Proposed This s is I Pe I Pea Why i Shoul every	t Type TR ak-2P-unb is the r pairset as defined applies when 4-pa 'must support' is r adRemedy ak-2P-unb is the r et, as defined by B d Response section needs sor eak-2P-unb, but e k - I Port-2p-other is Equation 33-14 Idn't this section in thing that follows	Comment Status X minimum current due to unba l by Equation (33-11)." air powering a single-signatu not appropriate. minimum current due to unba Equation (33-11), when power Response Status W me work. This sentence says equation 33-14 says that it is r. introduced before equation mtroduce equation 33-14 first is an explanation of those var	lance effects the re PD. lance effects the ring a single-sig that the minimu actually the min 33-10? (make it equate lues?	PSE Unbalance at a PSE must support at a PSE supports on a inature PD over 4-pair." um current on a pairset imum of that value and	Comment "Type reach startir pairse Spelli Suggeste Fix. Proposed PROF	Type E 3 and Type 4 PS the POWER_ON g with the first pa t transitions to PC ng mistake in Tinu dRemedy Response POSED ACCEPT.	Comment Status D Es that have assigned Class state on both pairsets withir irset transitioning into the PC DWER_UP anytime within th rush-2P max, need capital I. Response Status W	s 5 to 8 to a sing n Tinrush-2P ma OWER_UP state is time period."	Editoria. lle-signature PD shall ax, e, and where the second
l may workin TFTD	/ try to rewrite this ng on it.)	section before the meeting.	Please talk to r	ne (Dave A.) before					
C/ 33 Yseboodt	SC 33.2.8.4 t, Lennart	P 118 Philips	L 43	# 218					
Comment "I Pea	<i>t Type</i> TR ak is the total curr	Comment Status X rent of both pairs with the sar	ne polarity that a	PSE Unbalance a PSE supports."					
Only : Suggeste "I Pea define signa	applies when 2-pa edRemedy ak is the total curr ed in Equation 33- iture PD."	air powering or 4-pair powerin rent of both pairs with the sar -10, when powering either in	ng a single-signa ne polarity that a 2-pair, or 4-pair	ature PD. a PSE supports, as powering a single-					
Proposed TFTD	l Response)	Response Status W							
See 2	217								

									· · · · · · · · · · · · · · · · · · ·
CI 33 Yseboodt	SC 33.2.8.7 , Lennart	P 123 Philips	L 45	# 220	C/ 33 Yseboodt	SC 33.2.8.11 , Lennart	P 126 Philips	L 30	# 222
Comment	Type TR	Comment Status D		PSE Power	Comment	Туре Т	Comment Status D		PSE Power
ILIM_ saying this m	min is defined here Ipeak_max ho g to use the "maxim naximum value rea	e in Equation 33-17 as Ipea wever, does not exist, we num value of Ipeak from E Ily is.	ak_max + 4mA. only have a refere quation 33-10". It	ence in the "where" part is not obvious what	"NOT 2, 3, 4	EFor practical im 4 I unb requiremen It is likely that	plementations, it is recomm ts." 1 unb requirements for Typ	nended that Type be 3+4 will chang	1 PSEs support Type
Suggeste	dRemedy					In any case, "	Type 2,3,4" is not the way to	o refer to multiple	e Types.
It will	be more clear to c	alculate ILIM_min and put	that in Table 33-1	9.	Suggeste	dRemedy			
mode PD"	- Add a new it Parameter: " when connected Symbol: I_LI	em to Table 33-19, after ite Output current - at short ci to a single-signature PD, a M	em 11 (I_LIM-2P) rcuit condition, wi s function of the t	nen operating in 4-pair Class assigned to the	Chan suppo <i>Proposea</i> PROI	ge to: "NOTEFor p ort Type 2 I_unb re <i>I Response</i> POSED ACCEPT.	ractical implementations, it quirements." <i>Response Status</i> W	is recommended	I that Type 1 PSEs
	Min:	PSE Type:			CI 33	SC 33.2.8.12	P 126	L 40	# 223
	Class 0-4	I_LIM-2P 3,4			Yseboodt	, Lennart	Philips		
	Class 5 Class 6 Class 7 Class 8	0.958 3,4 1.278 3,4 1.539 4 1.856 4			Comment "This	<i>Type</i> E equates to a maximum	Comment Status D mum I_Port-2P current I_LP	PS defined in Equ	<i>Editorial</i> uation (33-24)."
Proposed	Max: (empty) Additional inf - Remove pag	ormation: See 33.2.8.7 je 123, lines 45-54 Response Status W			Suggeste Bette result	dRemedy r description: "I_LPS is defi s in less than PTyj	ned in Equation 33-24 and is be max being sourced by the	s the maximum of PSE."	current per pairset that
PROF	POSED ACCEPT I	N PRINCIPLE.			Proposed	Response	Response Status W		
- Incolo		and the fallentian shares			PRO	POSED ACCEPT.			
mode	Parameter: " and connected to	Output current - at short ci a single-signature PD, as t	e. rcuit condition, wi function of the Cla	nen operating in 4-pair ass assigned to the PD"	C/ 33 Yseboodt	SC 33.3.3.7 , Lennart	P 138 Philips	L 17	# 224
C/ 33 Yseboodt	SC 33.2.8.7 , Lennart	P 124 Philips	L 14	# 221	Comment Expla Move	<i>Type</i> E nation of abbreviate explanation two lin	Comment Status D tion MPS, is given after usin nes up.	ng abbreviation.	Editorial
Comment	Type ER	Comment Status D		Editorial	Suggeste	dRemedy			
Figure	e 33-29 uses "I_LII	M_min" that should be "I_L	IM min".		Chan	ge to:			
Suggeste	dRemedy				"Cont Remo	rols applying Main	tain Power Signature (MPS) MPS in False.) (see 33.3.8.10)	to the PD's PI."
Fix.					Proposed	Response	Response Status W		
Proposed PROF	Response POSED ACCEPT.	Response Status W			PRO	POSED ACCEPT.			

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

C/ 33 SC 33.3.3.8 Yseboodt. Lennart	P 138 Philips	L 40	# 225	CI 33 Yseboodt.	SC 33.3.3.13 Lennart	P 144 Philips	L 17	# 228
Comment Type E Use of underscores in t	Comment Status D	with tinrushod	Editorial timer.	Comment	Type E er used to prevent	Comment Status D	nature PDs from dr	Editorial
SuggestedRemedy Rename tacs pd timer	to tacspd timer in the draft.			1 power Class	er over Mode M a 2 power over Mod	nd Class5 Type 4 dual-sig le M during the PSE's inru	gnature PDs from oush period; see Td	drawing more than elay-2P in Table 33-31."
Proposed Response	Response Status W			Class5 Suggesteo	5 is missing space IRemedy			
C/ 33 SC 33.3.3.13	P 144	L 10	# 226	Fix. Proposed	Response	Response Status W		
Yseboodt, Lennart	Philips			PROP	OSED ACCEPT I	N PRINCIPLE.		
Comment Type E Empty line above subse	Comment Status D ection title is missing.		Editorial	OBE b	y 227			
- 33.3.3.13 - 33.3.3.14				C/ 33	SC 33.3.3.16	P 145	L 13	# 229
SuggestedRemedy				Yseboodt,	Lennart	Philips		
Add empty line				Comment	Туре Е	Comment Status D		PD SD
Proposed Response PROPOSED ACCEPT.	Response Status W			In DO_ <i>Suggestea</i> Chang	_CLASS_EVENT [;] <i>IRemedy</i> je to "do_class_tir	I the variable "do_class_t ning_mode(M)"	imingmode(M)"	has two underscores.
CI 33 SC 33.3.3.13	P 144	L 16	# 227	Proposed	Response	Response Status W		
Yseboodt, Lennart	Philips			, PROP	, OSED ACCEPT.			
Comment Type T	Comment Status D		PD SD					
"tpowerdly_timer_mode from drawing more than	(M): A timer used to prevent Type 1 power over Mode M	Class 4 Type 3 and Class5 Ty	3 dual-signature PDs pe 4 dual-signature PDs	CI 33 Yseboodt,	SC 33.3.3.16 Lennart	P 146 Philips	<i>L</i> 16	# 230
from drawing more than Tdelay-2P in Table 33-3	1 Class 2 power over Mode M 31."	during the PS	E's inrush period; see	Comment The du	<i>Type</i> TR Jal-signature state	Comment Status D diagram in Figure 33-33	does not have an	PD SD INRUSH state like
Needs to be updated pe	er the tpowerdly_timer descrip	otion.		single-	signature has.			
SuggestedRemedy				Suggestea	IRemedy			
Change to: "A timer used to preven	t Type 3 and Type 4 PDs from	n drawing mor	e than I Inrush_PD and	Implen 32.	nent INRUSH sta	e into Figure 33-33, with	the same principle	as used in Figure 33-
I Inrush_PD-2P during t	the PSE's inrush period; See	I delay-2P in	Table 33-31."	Proposed	Response	Response Status W		
Proposed Response	Response Status W			PROP	OSED ACCEPT I	N PRINCIPLE.		
FROPOSED ACCEPT.				OBE b	y 145			

C/ 33 SC 33.3.4	P 147	L 48	# 231	CI 33 SC	33.3.6	P 149	L 6	# 233
Yseboodt, Lennart	Philips			Yseboodt, Lenna	art	Philips		
Comment Type E	Comment Status D		Editorial	Comment Type	ER	Comment Status D		Editorial
Table 33-23, valid pd de The series input inducta	etection sig. Ince is listed as 0.100 mH.			"The Class a power that a	advertised by Type 3 or T	y the PD during Physical Lay ype 4 PD shall draw."	er classificatio	n is the maximum
SuggestedRemedy	' 400			A more appr	opriate word	for 'advertised' is 'requested	' since we als	o use that term in Table
Change dimension to m	ICro, 100 uH			33-13. Guide				
Proposed Response PROPOSED ACCEPT.	Response Status W			- advertise a - request a C	class signa Class (PD)	ture (PD)		
C/ 33 SC 33.3.5	P 148	L 45	# 232	- assign a Ci	ass (FOL)			
Yseboodt, Lennart	Philips			"The Class r	or upsted by	, the PD during Physical Lave	or classification	n is the maximum nower
Comment Type E	Comment Status D		Editorial	that a Type 3	3 or Type 4 l	PD shall draw."		
Suggested Periody				There seems	s to be no P	ICS for this: add PICS for this	requirement.	
Remove empty line.				There are m	ore of these	: ace advertise by request		
Proposed Response PROPOSED ACCEPT.	Response Status W			- page 132, j - page 132, j - page 132, j - page 149, j - page 151, j - page 153, j - page 157, j	line 39, repla line 42, repla line 6 (this o line 53, repla line 15, repla	ace advertise by request (2x) ace advertise by request (2x) ne) ace advertise by request ace advertise by request ace advertise by request		
				Proposed Respo PROPOSED	onse DACCEPT.	Response Status W		
				C/ 33 SC Yseboodt, Lenna	33.3.6 art	P 149 Philips	L 9	# 234
				Comment Type	Е	Comment Status D		Editorial
				"A PD may b Data Link La	be classified ayer (DLL) cl	by the PSE based on the Ph assification,"	ysical Layer c	lassification information,
				Inconsistent	and bad flow	<i>W</i> .		
				SuggestedReme	edy			
				"A PD may b Layer (DLL)	be classified classification	by the PSE based on Physic n, …"	al Layer class	ification, Data Link
				Proposed Respo	onse	Response Status W		
				PROPOSED	ACCEPT.			

C/ 33	SC 33.3.6	P 149	L 31	# 235	C/ 33	SC 33.3.7	P 153	L 41	# 237
Yseboodt, L	ennart	Philips			Yseboodt, Le	ennart	Philips		
Comment T	ype ER	Comment Status D		PD Class	Comment Ty	pe TR	Comment Status D		PD Class
"Depener equal to Use of t	ding on the nu the requesten he word 'may	umber of class events produce d Class, or it may be lower." ' is inappropriate in this conte:	ed by the PSE, th xt as the PD is no	e assigned Class is ot the actor here.	"Type 3 measurii FALSE, long_cla	and Type 4 Pl ng the length o which indicate ss_event to T	Ds may determine the Typ of the first class event. The ss the PSE is a Type 1 or RUE if the first class even	e of the PSE they a e default value for lo Type 2 PSE. The PI t is longer than TLC	re connected to by ng_class_event is D may set E_PD min and shall
SuggestedF	Remedy				set long_	_class_event t	o IRUE if the first class e	vent is longer than	LCE_PD max."
"Depen- equal to	ding on the nu the requeste	umber of class events produce d Class, or it can be lower."	ed by the PSE, th	ne assigned Class is		A PD is not This text has	required to measure the le s an unconditional shall in	ength of the LCE.	
Proposed R	esponse	Response Status W			SuggestedR	emedy			
PROPC	SED ACCEP	T IN PRINCIPLE.			"Type 3	and Type 4 Pl	Ds may determine the Typ	e of the PSE they a	re connected to by
"Depen equal to	ding on the nu o or lower thar	umber of class events produce the requested Class."	ed by the PSE, th	ne assigned Class is	measurii FALSE i long_cla	ng the length of f the first class ss_event to T	of the first class event. Su s event is shorter than T_L RUE if the first class even	ch PDs shall set lon _CE_PD min, and sl t is longer than T_L	g_class_event to nall set CE_PD max."
CI 33	SC 33.3.6.2	P 151	L 49	# 236		Add these re	equirements to the PICS.		
Yseboodt, L	ennart	Philips			Proposed Re	esponse	Response Status W		
Comment T	ype TR	Comment Status D		PD Class	PROPO	SED ACCEPT	-		
"Type 3 33-31 fc	and Type 4 F or the level de	PDs shall conform to the electrificed in the pse_power_level s	rical requirement state variable."	s as defined by Table	C/ 33 Yseboodt, Le	SC 33.3.6.3	P 153 Philips	L 44	# 238
needs t	pse_power	_level does not equate to the	assigned Class,	which is what the PD	Comment Ty	ne F	Comment Status D		Editorial
Suggested	o comonin to.				No perio	d at end of se	ntence: "This determination	on allows the PD to	make use of short MPS
"Type 3	and Type 4 F	PDs shall conform to the elect	rical requirement	s as defined by Table	to reduce	e standby pow	/er"		
33-31 p	er the Class i	n the pd_max_power variable	or pd_max_pow	er(M) variable."	SuggestedR	emedy			
	Also, move	this paragraph to page 152.	ine 16.		Add peri	od.			
					Proposed Re	esponse	Response Status W		
	Update PIC	S PD30 to match.			PROPO	SED ACCEPT			
Proposed R PROPC	OSED ACCEP	Response Status W T.			C/ 33 Yseboodt, Le	SC 33.3.8	P 154 Philips	L 1	# 239
					Comment Ty	pe ER	Comment Status D		PD Power
					As we di 31.	d for the PSE	Table, we should use "pe	r the assigned Class	s" in the PD Table 33-
					SuggestedR	emedy			
					Use the	construction "	per the assigned Class" th	roughout Table 33-	31 where appropriate.
					Proposed Re	esponse	Response Status W		
					PROPO	SED ACCEPT	-		
TYPE: TR/to COMMENT SORT ORD	echnical requi STATUS: D/c ER: Commer	red ER/editorial required GR dispatched A/accepted R/reje t ID	/general required	d T/technical E/editorial G/ NSE STATUS: O/open W/w	/general vritten C/closed	J/unsatisfied	Cor Z/withdrawn	mment ID 239	Page 59 of 70 10/27/2016 4:57:18 PM

C/ 33	SC 33.3.8	P 154	L 37	# 240	C/ 33	SC 33	3.3.8	P 156	L 16	# 243
Yseboodt, I	_ennart	Philips			Yseboodt, L	ennart		Philips		
Comment 1	Гуре E	Comment Status D		Editorial	Comment T	ype .	TR	Comment Status D		PD Power
Table 3 informa	3-31, item 6 and ation column "Pe What on eart	l item 7 (linrush_PD and Ilnrus ak value See 33.3.8.3". h does that 'peak value' refer t	sh_PD-2P) both o ?	n say in the additional	In footn "The ma that are	ote of Ta aximum influenc	able 33- PPort_f ced by e	31: PD may be limited to less tha xternal unbalance in order to	n PClass_PD t meet the requ	for dual-signature PDs irements of 33.3.8.10."
value.	I traced it bac It then points Does it refer	k all the way to 802.3af where to the PD inrush section, whe to the PSE inrush peak value	it also says "p re there is no m ?	eak value". nention of a peak	This cry devices sig PDs	vptic sen may no s.	tence re t reach	fers to dual-signature PDs, in Pclass_PD-2P because there	mplemented w e is no provisio	ith a single load. These n for unbalance for dual-
Suggested	Remedy				This foo	otnote or	nly creat	es confusion.		
Replac	e by "See 33.3.8	5.3"			SuggestedF	Remedy				
Proposed F	Response	Response Status W			Remove	e this se	ntence f	rom the footnote.		
PROPO	DSED ACCEPT.				Proposed R PROPC	esponse SED A	e CCEPT.	Response Status W		
C/ 33 Yseboodt, I	SC 33.3.8 _ennart	P 155 Philips	L 18	# 241	C/ 33	SC 33	8.3.8.1	P 157	L 11	# 244
Comment 7	Type TR	Comment Status D		PD Inrush	Y Seboodt, L	.ennart		Philips		
Table 3	33-31, item 7, T_	Inrush_PD has PD Type = "3,	4".		Comment T	ype '	TR	Comment Status X		Pres: Yseboodt2
Suggested	Remedy	requirement in 33.3.8.3 applie	s also to Type 2	2 PDs.	the PD less tha	shall sta shall sta n V Port	irn on a iy on ov t_PD-2F	t a voltage less than or equal er the entire V Port_PD-2P ra minimum and greater than or	ange. The PD sorr equal to V C	After the PD turns on, shall turn off at a voltage ff_PD."
Proposed F	Response	Response Status W				- Is at - Allo	t odds w ws the F	ith both the Type 1/2 and Typ D to turn on at any voltage lo	be 3/4 state dia ower than 42V	agrams
PROPU	JSED ACCEPT	IN PRINCIPLE.			SuggestedF	Remedy				
It applie	es to both Type ?	1 and Type 2.			Adopt y	seboodt	_02_11	16_vonvoff.pdf		
Change	e PD Type for Ite	em 7 to "All".			Proposed R WFP	esponse	Э	Response Status W		
C/ 33 Yseboodt, I	SC 33.3.8 _ennart	<i>P</i> 155 Philips	L 21	# 242	TFTD					
Comment 7 Table 3	<i>Type</i> TR 33-31, item 8, T_ It also applies	Comment Status D delay-2P, has PD Type = "3, 4 s to Type 2 PDs.		PD Inrush						
Suggested Change	Remedy e PD Type for Ite	em 8 to "2, 3, 4".								
Proposed F PROPC	Response DSED ACCEPT.	Response Status W								

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

Comment ID 244

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C/ 33	SC 33.3.8.2	P 157	L 20	# 245	C/ 33	SC	33.3.8.3	P 158	L 24	# 247
YSEDOODI	, Lennart	Philips			Y SEDOODT,	Lennar	τ	Philips		
Comment "PCla the P Sente	t <i>Type</i> E lss_PD and PClast SE." ence can be simplif	Comment Status D s_PD-2P in Table 33-31 are iied.	determined by t	PD Power he Class assigned by	Comment [*] We ha min un	<i>Type</i> ve two [1] I ıtil T de	TR shalls in th PDs shall o lay-2P min	Comment Status D ne PD inrush section: draw less than I Inrush_PD	and I Inrush_P[PD Inrush D-2P from T Inrush-2P
Suggeste "PCla Class	dRemedy lss_PD and PClass ."	s_PD-2P in Table 33-31 are	determined per	the PSEs assigned	in 33.2	[2] 8.5. I m	The PD sh ade a com	all meet the inrush requirem ment the previous cycle to r	remove [2] beca	SE behavior described use I felt it was
Proposed PROF	Response POSED ACCEPT I	Response Status W N PRINCIPLE.			redunc	ant to Thi	[1]. s is true, b	ut there is more going on th	an I had realize	d.
"PCla Class	ss_PD and PClass	s_PD-2P in Table 33-31 are	determined per	the PDs assigned		The - [1] If i	ere are two] can only l the PSE do	separate issues: be met by a PD, when it is o bes not provide enough inru	connected to a clish current, the	compiant PSE. PD cannot be expected
C/ 33 Yseboodt	SC 33.3.8.3 , Lennart	P 158 Philips	L 11	# 246	to be c	omplia: Th	nt to [1]. ne [1] state	ment is unconditional thoug	ıh.	
Comment "PDs delay	<i>Type</i> TR shall draw less tha -2P min."	Comment Status D an I Inrush_PD and I Inrush	_PD-2P from T Ir	<i>PD Inrush</i> nrush-2P min until T	restrict the low	W - ed curr Th St v currer	e need to rent capabi nis was the atement [2 nt behaviou	warn the PD designer that it lity at low VPSE. reason statement [2] was a] is still a redundant shall to Ir of the PSE.	t is allowed for F added to this set o [1] and it also f	PSEs to have severely ction.
	Uses a PSE t We have crea	Iming parameter. Ited Tinrush PD for this pur	pose.		Suggested	Remea	ly			
Suggeste "PDs 2P m	<i>dRemedy</i> shall draw less tha in."	an I Inrush_PD and I Inrush	_PD-2P from T Iı	nrush_PD until T delay-	- Chan until T	ge [1] t "PC delay-2	o read:)s shall dra 2P min, wh	w less than I Inrush_PD an en connected to a source th	d I Inrush_PD-2 nat meets the re	P from T Inrush_PD equirements of 33.2.8.5".
Proposed PROF OBE	I Response POSED ACCEPT I by 28	Response Status W N PRINCIPLE.			for det	- Re - Ac "PS ails."	emove [2] dd the follo Es may so	wing to the NOTE on page ource a very limited current	158, line 21, be when VPSE is t	fore the last sentence: below 30V. See 33.2.8.5
					Proposed I PROP	- Up Resport OSED	odate PICS ise ACCEPT.	SPD49 and remove PD52 Response Status W		

C/ 33 Yseboodt, L	SC 33.3.8.6 _ennart	P 162 Philips	L 48	# 248	C/ 33 So Wendt, Matthias	C 33.4.1.1.1	P 167 Philips	L 53	# 250
Comment 7 The rec Neither	<i>Type</i> TR quirements in 33. of these parame	Comment Status D 3.8.6 refer to "PClass_F eters is a range, but is a	PD max" and "PClass_ single power number.	<i>Editorial</i> PD-2P max".	<i>Comment Type</i> "A multiport power isola	E NID comply tion betweer	Comment Status D ving with Environment A required in link segments."	ments doe	<i>Editorial</i> s not require electrical
Suggested Replace - "PCla - "PCla Proposed R PROPC In addit	Remedy e: ss_PD max" by " ss_PD-2P max" Response DSED ACCEPT I ion to suggested	PClass_PD" by "PClass_PD-2P" <i>Response Status</i> W N PRINCIPLE. I remedy, apply same fi»	to page 163 lines 1-9		Is a recursiv SuggestedRem "An Enviror segments." Proposed Resp PROPOSE	ve statemen edy Iment A muli onse D ACCEPT.	t within this section (Environmentiport NID does not require election <i>Response Status</i> W	nt A require	ements). r isolation between link
Cl 33 Yseboodt, L Comment 7 "PDs u: the PSI 33. change Suggested!	SC 33.3.9 Lennart Type TR sing Autoclass sl E during Physica This informati It is not neede Also, with DLI is).	P 166 Philips Comment Status D nall use the I Port_MPS I Layer classification." on applies to many para ed to repeat it here. L the assigned Class ca	L1 associated with the Pl ameters and is clearly in n change (and then the	# 249 PD MPS D Class assigned by marked in Table 33- e MPS value also	Cl 33 So Yseboodt, Lenn Comment Type Autoclass h D SuggestedRem Adopt yseb Proposed Resp WFP TFTD	C 33.5.5 art TR as not been 2.0 TDL #23 edy oodt_04_11 ⁻ onse	P 189 Philips Comment Status X properly described in 33.5.5. 32, #316, #476, #503 16_autoclassdll.pdf Response Status W	L 5	# 251 Pres: Yseboodt4
Proposed F PROPC	e sentence. Remove PICS Response DSED ACCEPT.	S PD82. Response Status W			Cl 33 So Yseboodt, Lenn Comment Type PICS PD M SuggestedRem Add item PI Proposed Resp TFTD Why isn't th	C 33.7.2.3 art T ajor option F edy DT1. onse is in the pub	P 192 Philips Comment Status D PDT1 is missing. Response Status W	L 5	# 252 PICS

CI 33 Yseboodt,	SC 33.7.2.3 Lennart	P 192 Philips	L 18	# 253	C/ 33 Yseboodt	SC 33.7.2.4 , Lennart	P 193 Philips	L 37	# 256
Comment T PICS *	<i>Type</i> E PDCL: Classifica	Comment Status D ation for PDT1, PDT3 and P	DT4 is missing.	PICS	Comment *PCA	<i>Type</i> E Pair control was	Comment Status D removed in the 33.5 Manage	ement purge.	PICS
Suggested Add St	Remedy atus PDT1:O, PI	DT3:M, PDT4:M.			Suggeste Remo	dRemedy ove *PCA.			
Proposed F PROP	Response OSED ACCEPT	Response Status WIIN PRINCIPLE.			Proposed PROI	Response POSED ACCEPT	Response Status W		
Add PI	DT3:M, PDT4:M				C/ 33 Yseboodt	SC 33.7.3.2 , Lennart	P 194 Philips	L 41	# 257
Why is	n't Type 1 in the	published standard?			Comment Large	<i>Type</i> E r fontsize is used	Comment Status D for PSE6 and PSE7 Feature	es.	Editorial
CI 33 Yseboodt,	SC 33.7.2.3 Lennart	P 192 Philips	L 18	# 254	Suggeste Make	<i>dRemedy</i> fontsize the sam	e.		
Comment 7 Short M PDs ca	<i>Type</i> E MPS is not a cap an use it when av	Comment Status D ability. railable.		PICS	Proposed PROI	Response POSED ACCEPT	Response Status W		
Suggested Remov	Remedy ve *PDSMPS fror	n 33.7.2.3.			C/ 33 Yseboodt	SC 33.7.3.2 , Lennart	P 195 Philips	L 29	# 258
Proposed I PROP	Response OSED ACCEPT.	Response Status W			Comment "Issue time \	<i>Type</i> T ono more than th /PSE was at VRe	Comment Status D e Class they are capable of s eset and a transition to POWI	supporting betwe	PICS een the most recent
C/ 33 Yseboodt,	SC 33.7.2.3 Lennart	P 192 Philips	L 31	# 255	In tex Suggeste	t "power up states dRemedy	s" is mentioned and not POW	/ER_UP.	
Comment T Item *E lower.	<i>Type</i> E DLLC: DLL suppo	Comment Status X ort is optional for Type 1, and	d for Type 3 PDs th	at request Class 3 or	Chan "Issue time \	ge to: e no more than th /PSE was at VRe	e Class they are capable of s set and a transition to any of	supporting betwe f the power up st	en the most recent ates"
Suggested Add St Not su	Remedy atus PDT1:O. re how to fix the	PDT3:M thing			Proposed PROI	Response POSED ACCEPT	Response Status W		
Proposed F TFTD	Response	Response Status W							
Why is	n't Type 1 listed	in published standard?							

C/ 33 Yseboodt	SC 33.7.3.2 , Lennart	P 195 Philips	L 45	# 259		C/ 33 Yseboodt,	SC 33.7.3.2 Lennart	P 196 Philips	L 47	# 261
Comment A PIC "Type conne from 3	<i>Type</i> E S is missing for: a and Type 4 PS ection check prior 33.2.6.1 page 101	Comment Status D Es that will deliver power on to the classification of a PD a line 37	both pairsets sh as specified in 3	nall complete a 3.2.7."	PICS	Comment "Store Suggested "Store	<i>Type</i> E ed in PD_4pair_ca <i>dRemedy</i> ed in pd_4pair_ca	Comment Status D and, defined in 33.2.5.9" var and, defined in 33.2.5.9"	iable has lowerca	PIC:
Suggeste Add F	<i>dRemedy</i> PICS for this shall.					Proposed PROF	Response POSED ACCEPT.	Response Status W		
Proposed PROF	Response POSED ACCEPT	Response Status W IN PRINCIPLE.				C/ 33 Yseboodt,	SC 33.7.3.2 Lennart	P 201 Philips	L 27	# 262
TFTD Add n	new PIC.					Comment PICS	<i>Type</i> T missing for page	Comment Status X 121 line 52:		PIC
Also, need	PIC PSE21 only a a new capability (applies if delivering 4-Pair po or whatever it is called)?	wer, how do we	indicate that? D	o we	"A Ty 1 ms : classi	pe 2 PSE that settling time, shal fication."	uses Single-Event Physica I power up a Class 4 PD as	al Layer classification if it used Multiple	ation, and requires the -Event Physical Layer
C/ 33	SC 33.7.3.2	P 196	L 17	# 260		Suggestee	dRemedy			
Yseboodt	, Lennart	Philips				Add th	his shall to new P	CS item PSE95a.	22)	
Comment In PIC "Not t is the	t <i>Type</i> E CS PSE28: be damaged by up range VPort_PSE	Comment Status D to 5 mA over the range of V 2-2P wrong, this should be V	Port_PSE-2P" oc.		PICS	Proposed TFTD	Response	Response Status W	•••)	
Suggeste Chan	<i>dRemedy</i> ge to:					This v a PIC	vas added as a m for it.	aintenance request betwee	n AT and BT…I g	uess they never added
"Not k	be damaged by up	to 5 mA up until a voltage o	f Voc"			C/ 33	SC 33.7.3.3	P 205	L 30	# 263
Proposed	Response	Response Status W				Yseboodt,	Lennart	Philips		
TFTD	OSED ACCEPT.					<i>Comment</i> A PIC "The I	<i>Type</i> E S is missing for p PD shall conform	Comment Status D age 149, line 32 to the assigned Class, rega	ardless of the Clas	PIC: ss it requested."
This i maint	s defintely wrong a enanceChair?	and we are loosening a requ	rement, so I do	n't see any need	for	Suggestee Add P	dRemedy ICS item PD21b			
						Proposed TFTD	Response	Response Status W		
						See 2	64			

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

Cl 33 SC 33.7.3.3 Yseboodt, Lennart	P 205 Philips	L 36	# 264	C/ 33 Yseboodt, Le	SC 33.7.3.8 ennart	P 215 Philips	L 6	# 266		
Comment Type T PICS missing for page	Comment Status D e 151, line 49.		PICS	Comment Ty PICS ES	<i>upe</i> T S1 "Conforms to	Comment Status D o IEC 60950-1:2001" has da	ate in value, text o	PICS does not.		
SuggestedRemedy Add PICS.				SuggestedR Change	<i>emedy</i> to: "Conforms	to IEC 60950-1"				
Proposed Response TFTD See 263	Response Status W			Proposed Re PROPO	esponse SED ACCEPT	Response Status W				
Are these two stateme	ents redundant?			C/ 33 Yseboodt, Le	SC 33.7.3.8 ennart	P 215 Philips	L 9	# 267		
1. The PD shall confo 2. Type 3 and Type 4 33–31 for the level def Pse_power_level is ju: Cl 33 SC 33.7.3.3	orm to the assigned Class, reg PDs shall conform to the ele- fined in the pse_power_level s st a proxy for assigned class.	ardless of the (ctrical requirem state variable. <i>L</i> 36	Class it requested. ents as defined by Table # 265	Comment Ty PICS ES SuggestedR Change Proposed Re PROPO	ype E 52 "In accordar emedy to: "In accorda esponse SED ACCEPT.	Comment Status D ace with IEC 60950-1:2001" nce with IEC 60950-1" Response Status W	has date in value	PICS		
Yseboodt, Lennart Philips Comment Type T Comment Status D PICS On page 162 line 43 two PICS are missing for page 162: "A single-signature PD shall include Cport as defined in Table 33-31." "A dual-signature PD shall include CPort-2P as defined in Table 33-31 on each pairset."					SC 33.7.3.9 ennart	P 215 Philips	L 26	# 268		
					Comment Type T Comment Status D PICS PICS PSEES1 "Limited Power Source in accordance with IEC 60950-1:2001" has date in write that data activity. PICS PICS					
Add to PICS, unless K	Ken's baseline no longer has t	his shall.		value, text does not.						
Proposed Response	Response Status W			Change	to: "Limited Po	wer Source in accordance v	vith IEC 60950-1	n		
PROPOSED ACCEPT	г.			Proposed Re	esponse	Response Status W				
TFTD				PROPU	SED AUGEPT.					
Ken, does your baseli	ne still have this shall?									

-								
C/ 33 Vseboodt	SC 79.3.2.6d	P 224	L 34	# 269	C/ 33A SC 33A.1	P 239 Philips	L 29	# 272
Comment	t Type E	Comment Status D		Editorial	Comment Type T	Comment Status D		Annex
"The refere	request power dov ence to Table is wr	vn field shall be set as defin ong.	ed in Table 79-5f.'		"Zo_ps max = 0.3 oh 33-11."	m at frequencies up to 100 kH:	z at P port = P T	ype as defined in Table
<i>Suggeste</i> Chan "The	d <i>Remedy</i> ge to: request power dov	vn field shall be set as defin	ed in Table 79-5e.	n	- Table 33-11 is bad - PType ain't what it - PPort does not exis	reference used to be (no longer equivaler t	nt to maximum p	power)
Proposed	l Response	Response Status W			SuggestedRemedy			
PROF C/ 33A	SC 33A	P 239	L 1	# 270	Replace by: "Zo_ps max = 0.3 oh PSE supports, as de	m at frequencies up to 100 kHz fined in Table 33-13."	z at the highest	Class output power the
Yseboodt	, Lennart	Philips			Proposed Response	Response Status W		
Comment	t Type ER	Comment Status D		Editorial	PROPOSED ACCEF	ΥТ.		
l have editin	e a bunch of comm It will be clear g instructions.	nents on Annex 33A section her to replace Annex 33A ra	s 1 and 2. hter than convolut	e it with significant	C/ 33A SC 33A.1 Yseboodt, Lennart	P 239 Philips	L 33	# 273
Suggeste Add "	dRemedy Replace Annex 33	A" at the beginning of the A	nnex.		Comment Type T "If Zo ps < Zo ser al	Comment Status D	and V Port max	Annex
Proposed PROF	I Response	Response Status W			11 during dynamic lo limited."	ad changes from 10 Hz to 100	kHz, then the va	alue of Zo_ps is not
					V_Port needs to be \	/_Port-2P		
C/ 33A Yseboodt	SC 33A.1 , Lennart	P 239 Philips	L 22	# 271	SuggestedRemedy Change to V Port-2F	5		
Comment 33A.1 Since	t Type ER I makes use of two the lists enumera	Comment Status D b lettered lists that use consiste two separate things this r	equtive lettering. nakes no sense.	Editorial	Proposed Response PROPOSED ACCEF	Response Status W		
Suggeste Conve	dRemedy ert lettered list into	dashed list.						
Proposed PROF	l Response POSED ACCEPT.	Response Status W						

C/ 33A	SC 33A.1	P 239	L 36	# 274	C/ 33A	SC :	33A.1	P 241	L 1	# 276		
Yseboodt,	Lennart	Philips			Yseboodt,	Lennar	t	Philips				
Comment	Type TR	Comment Status D		Annex	Comment	Туре	ER	Comment Status X		Annex		
"Comp impeda cable l	bliance to the ab ance from 10 H length, or by pre	ove requirements should be r z to 100 kHz with a load of P - senting simulation results."	nade by measu Type as defined	ring the port output in Table 33-11 at short	Figure It is al range	e 33A-3 so uncle at the b	uses no l ear if the 2 ottom.	ess than 3 different font sizes, a Z_ser @ frequency=0 belongs t	and fonts in to that botto	one Figure. m line, or belongs to the		
This is an INFORMATIVE annex, thus the word requirements and compliance is inappropriate. Also, PType is no longer correct.						SuggestedRemedy I will venture a guess here and predict this is a Yair Figure from the .af days. TFTD - what does this Figure mean & how can we draw it better ?						
"Verific from 1	cation of these g 0 Hz to 100 kHz	uidelines can be made by me with the maximum load per t	asuring the por he PSEs assigr	t output impedance ned Class, as defined in	In any Proposed	case, fi Respon	ix font siz se	e/type. Response Status W				
Table : Proposed I	33-13 at short c <i>Response</i>	able length, or by performing Response Status W	simulations."		IFID		by 275					
PROP	OSED ACCEPT	-			1 0331		by 215.					
C/ 33A	SC 33A.1	P 240	L 24	# 275	CI 33A Yseboodt,	SC : Lennar	33A.2 t	P 241 Philips	L 28	# 277		
Yseboodt,	Lennart	Philips			Comment	Туре	Е	Comment Status D		Annex		
Comment	Type ER	Comment Status X		Annex	In 33A	.2 there	are two	lettered lists that have no relation	on.			
"See F	igure 33A-2 for	the test setup and Figure 33A	-3 for the test r	equirements."	Suggested	Remed	ly					
	Where do I	begin ?			Conve	ert to das	shed list.					
	These figure The biggest There is no	es have a number of issues. one is that they are not used text at all that tells what to do	nor described. with it.		Proposed PROP	Respon POSED /	se ACCEPT	Response Status W				
	33A-3, desc With an X a	ribes "test requirements". But xis in KHz but no values any	is just a figure. /where.									
Suggested	IRemedy											
- Remo	ove quoted text	and Figures 33A-2 and 33A-3										
Proposed I TFTD	Response	Response Status W										

C/ 33A SC 33A.2 Yseboodt, Lennart	P 241 Philips	L 34	# 278	C/ 33C SC 33C.2 Yseboodt, Lennart	2 <i>P</i> 255 Philips	L 14	# 281
Comment Type TR " including the PD EN which"	Comment Status D Il output filter impedance fec	l by the cable (MI	<i>Annex</i> DI) output impedance,	Comment Type TR Editor made a mist	Comment Status D ake adopting comment D2.0 #2	203.	Annex
- We usually refer to th - The MDI is not the ca The MDI is defined as transmission medium a	e channel, not the cable ble. "The mechanical and electric and the MAU "	al or optical interf	face between the	SuggestedRemedy Remove T_ME1 ar Proposed Response PROPOSED ACCI	row in Figure 33C-12 and imple <i>Response Status</i> W EPT IN PRINCIPLE.	ement D2.0 #203 ((which adds TCLE1).
SuggestedRemedy	Al output filter impedance for	by the channel of	utrut impodonos	OBE by 105			
which"	on on line 27	i by the channel c	ouput impedance,	C/ 79 SC 79.3. Yseboodt, Lennart	2.1 <i>P</i> 219 Philips	L 14	# 282
Proposed Response PROPOSED ACCEPT	Response Status W			Comment Type ER Table 79-2, should correct.	Comment Status D be 79-3 according to the base	standard. Review	<i>Editorial</i> table numbers and
C/ 33A SC 33A.2 Yseboodt, Lennart	P 241 Philips	<i>L</i> 41	# 279	SuggestedRemedy Per comment.			
Comment Type ER "Because of this, meas	Comment Status D suring the PD input impedance	e is a complicate	<i>Annex</i> d task and the	Proposed Response PROPOSED ACCI	Response Status W		
This is not standards l	anguage.			C/ 79 SC 79.3. Yseboodt, Lennart	2.2 <i>P</i> 219 Philips	L 36	# 283
SuggestedRemedy "The following guideline Proposed Response	es are recommended when n Response Status W	neasuring the PD	input impedance:"	Comment Type TR Subsections 79.3.2 The base It seems	Comment Status X 2.2 and 79.3.2.3 refer to fields to e standard also has this issue. something went wrong when 8	hat do not occur ir 302.3at was adopte	LLDP a any of the tables.
C/ 33A SC 33A.2	P 241	L 43	# 280	SuggestedRemedy No clue. TFTD.			
Yseboodt, Lennart <i>Comment Type</i> TR Page 241, lines 41-54	Philips Comment Status D make use of P_Port.		Annex	Proposed Response TFTD as requested	Response Status W		
This parameter does no SuggestedRemedy Replace P_Port by P_F Proposed Response PROPOSED ACCEPT	ot exist. Port_PD in the referenced pa <i>Response Status</i> W	rt.					

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

C/ FM	SC FM	P 5 Philips	L 20	# 284	C/ 33B	SC 33B	P 245 Philips	L 1	# 286			
Comment	Type E	Comment Status D		Editorial	Comment	Type ER	Comment Status X		Pres: Yseboodt5			
IEEE S	Std 802.3bt-20xx " provision nent 2 (DTE) wit	is described as: of power via a single twisted h IEEE 802.3 interfaces."	pair to connecte	d Data Terminal	Annex	33B, p245, line "Current un SE shall be mei	e 18 says: balance requirements (R PSE t with R load, max and R load	min , R PSE min as specifie	max and I Con-2P-unb) ed by Table 33B-1 "			
	Seems like a	a spurious "2" after Equipmer	ıt.		orare							
Suggested Remo	IRemedy ve "2".				unbala	This is a KE ince, and the co	EY requirement for PSEs to m punterpart of the PD requirem	eet. It is the ese ent in 33.3.8.10	sence of 4-pair			
Proposed	Response	Response Status W			overloo	This require oked, this need	ement should not be lurking in s to be in the main text.	an Annex, whe	re it may get			
PROP	USED ACCEPT	•			Suggested	IRemedy						
C/ FM Yseboodt	SC FM	P 5 Philips	L 30	# 285	Adopt	yseboodt_05_1	116_annex33b.pdf.					
Comment The de	Type ER escription of IEEE	Comment Status D E Std 802.3bt-20xx in the fror	ntmatter seems r	Editorial ather incomplete.		nent, but informative						
Suggested Replac	Remedy ce by: Amendemen es Clause 33. This amende	t 10 This amendement ch	anges IEEE Std sing all four pairs	802.3-2015 and in the structured	Proposed I WFP TFTD	Response	Response Status W					
wiring also al better	plant, resulting ir lows for lower st manage the avai	n greater power being availat andby power consumption in ilable power budget.	end device end devices and	s. This amendement d adds a mechanism to	C/ 33 Zimmerma	SC 33.4.3 In, George	P 169 CME Consul	L 13 ting, Aqua	# 287			
Proposed	Response	Response Status W			Comment	Туре Е	Comment Status D		AES			
PROPOSED ACCEPT.						Table 33-35 Impedance balance limits are in a nonstandard notation - usually these are either called out as dB values in the header or have a straight (roman) dB after them, not in curly braces and dB in subscript.						
					Suggested	Remedy						
					Chang and su not a s	e middle colum bscript dB. Alt ubscript, with r	in header to read "Impedance ernatively, simply remove curl to change to column header	balance limit (c ly braces and m	IB)", delete curly braces ake the dB normal font,			
					Proposed I	Response	Response Status W					
					PROP	OSED ACCEP	T IN PRINCIPLE.					
					Chang and su	e middle colum Ibscript dB.	n header to read "Impedance	balance limit (c	IB)", delete curly braces			

C/ 33 SC 33.6.5	P 190	L 27 # 288	C/ 33 SC :	33.4.3	P 169	L 15	# 290
Zimmerman, George	CME Consulting,	Aqua	Zimmerman, Geor	rge	CME Consult	ing, Aqua	
Comment Type TR	Comment Status D	Environmental	Comment Type	ER Comr	ment Status D		Editorial
TDL #538 on D2.0 - review voltages to the PI of a PS and was pointed out in the testable. Any safety haza wildebeast stampede cau 802.3bu fixed this by refer SuggestedRemedy Change "Application of an	w environmental section - 'App E or a PD shall not result in ar e BZ and BU sponsor ballots th rd might include the attraction sed by the ringing telephone. ring to the General safety and	lication of any of the above ny safety hazard.' this is a shall, nat it is ill-defined and non- of wild boars, meteor showers, Need to be specific. 802.3bz and Network safety subclauses.	TDL #171 on I require the exising fig" limit in with PHY spece SuggestedRemed delete ".0" from Proposed Response	D2.0 - significant of tra ".0" in the limit. clause 33, incons cifications and unr by m all frequency lin use Respo	digits - Table 33-35 a This accuracy is ur istent with frequenc necessary. hits in tables 33-35 a <i>nse Status</i> W	and 33-36 freque husual, inconsiste y limits in later ta and 33-36 on pag	ncy limits do not ent with the usual "3 bles, and inconsistent jes 169 and 170
result in any safety hazard PSE or a PD shall not pre	d." to read ""Application of any clude conformance with 33.6.	of the above voltages to the PI of a 1 and 33.6.2."	PROPOSED	ACCEPT.			
Proposed Response PROPOSED ACCEPT.	Response Status W		C/ 30 SC : Zimmerman, Geor	30.12.2.1.18a rge	P 36 CME Consult	L 15 ing, Aqua	# 291
Cl 33 SC 33.6.3 Zimmerman, George	P 190 CME Consulting, <i>i</i>	L 5 # 289	Comment Type Table 79-7f do two times (line	E Comr besn't exist. I think es 15, 28)	nent Status D this is refering to Ta	able 79-7b (PD m	Management neasurements), occurs
Comment Type T TDL #538 on D2.0 - review may be relevant to installa The reader should be adv about local and regional re	Comment Status D w environmental section - Rec ation and maintenance of syste ised to consult these documer equilations. This change was a	Environmental ent changes in electrical codes ems governed by this standard. hts, adding clarity to the statement also made in PoDL.	SuggestedRemed Change Table Proposed Respon PROPOSED /	ly 979-7f cross references nse Respo ACCEPT.	ence to 79-7b in boti nse Status W	h occurances	
SuggestedRemedy			OBE by 171				
Insert the following new 2 installation practice and lo the ampacity of cabling, a – National Electric Code® Make the sentence begin	nd sentence in 33.6.3 following ocal regulations: "In particular, s installed, and local codes an o (NEC®), relevant to the maximining "In addition, Annex 558"	g statement about sound users are cautioned to be aware of d regulations, e.g., ANSI/NFPA 70 mum class supported." " start a new paragraph	Cl 30 SC : Zimmerman, Geor Comment Type	30.12.2.1.18c rge E Comr	P 36 CME Consult nent Status D	L 40 ing, Aqua	# 292 Management
Proposed Response	Response Status W PRINCIPLE.		Table 79-7g d occurs two tim	loesn't exist. I thinl nes (lines 40, 52)	< this is refering to T	able 79-7c (PSE	measurements),
(Not sure where the 2nd p	part of the suggested remedy o	ame from).	SuggestedRemed	<i>ly</i> e 79-7g cross refer	ence to 79-7c in bot	th occurances	
Insert the following new 2 installation practice and lo the ampacity of cabling, a – National Electric Code®	nd sentence in 33.6.3 following ocal regulations: "In particular, s installed, and local codes an o (NEC®), relevant to the maxim	g statement about sound users are cautioned to be aware of d regulations, e.g., ANSI/NFPA 70 mum class supported."	Proposed Respon PROPOSED / OBE by 171	ise Respo ACCEPT IN PRIN	nse Status W CIPLE.		