C/ 25 SC 25.4.4a.1	P19	L 51	# 1		C/ 33	SC 33.2	.4.4	P 45	L 22	# 3	
Darshan, Yair	Microsemi Co	orporation			Darshan, Ya	ur		Microsemi C	orporation		
Let's use the same term SuggestedRemedy	Comment Status A " and the text in Note 1 use in both. and synchronize between R		and Note 1 text.	EZ	is insuff Discuss If it "is ir problem The rea	rding of "U icient" is c ion: isufficient" s son why w	sing o onfusi ' as the re allow	e text says then why we allow wit is to continue to suppor	ow it? it may caus	ork fine so using t	the
Response ACCEPT IN PRINCIPLE	Response Status C					is used it i		tells the reader that we kno working which is also not tr		Tail cases that th	15
OBE 31						"is insuffic a) : "may b					
C/ 33 SC 33.2.4.4 Darshan, Yair	P 44 Microsemi Co	L 21 prporation	# 2		Option b Option of	o) : "in som c) : "in som	ne cas ne cas	es is insufficient" es may be insufficient" lent wording			
Comment Type ER Draft D4 There is no such term Pl It should be "PD Inrush of				EZ	Response ACCEP	, T IN PRIN		Response Status C			
SuggestedRemedy Lines 21 and 22 (two oc	currences): Replace "PD inr	ush" with "PD in	rush current"		OBE 34						
Response ACCEPT IN PRINCIPLE	Response Status C										
Assume this is page 45.											
Accept the suggestion.											

Draft D4 1. do_short_detect function detects short circuit condition and not overload condition. So we need to fix the text (it was copied from do_overload_detect) 2. However overload condition may be many scenarios that is ended with "short circuit" condition from the PSE point of view examples: 1. Very high load that corresponds to very low output resistance load < 1 ohms. 2. Overload that corresponds to current > lcut_max All of the above may be considered as overload conditions or "short circuit" condition from the PSE point of view. I belive that short circuit doesn't mean zero ohms. As a result do_short_detect function detects short circuit and overload as well. In this case is very much depends on system specific implementation. (All short circuits are overload as well but not all overload scenarios are short circuit conditions. It depends by the PSE output impedance as well. The difference between do_short_detect and do_overload_detect is a) the time TLIM or TOVLD b) Current thresholds c) Enforcement d) different states which requires two separate functions) SuggestedRemedy Change from: "do_short_detect Change from: "do_short_	P 49 Microsemi Corpor	L19 # 5	
Comment Type TR Comment Status A pics Draft D4 1. do_short_detect function detects short circuit condition and not overload condition. So we need to fix the text (it was copied from do_overload_detect) 2. However overload condition may be many scenarios that is ended with "short circuit" condition from the PSE point of view examples: Draft D4 1. Very high load that corresponds to very low output resistance load < 1 ohms.		ration	
Draft D4 1. do_short_detect function detects short circuit condition and not overload condition. So we need to fix the text (it was copied from do_overload_detect) 2. However overload condition may be many scenarios that is ended with "short circuit" condition from the PSE point of view examples: 1. Very high load that corresponds to very low output resistance load < 1 ohms. 2. Overload that corresponds to very low output resistance load < 1 ohms. 2. Overload that corresponds to current > lcut_max All of the above may be considered as overload conditions or "short circuit" condition from the PSE point of view. I belive that short circuit doesn't mean zero ohms. As a result do_short_detect function detects short circuit and overload as well. In this case is very much depends on system specific implementation. (All short circuits are overload as well but not all overload scenarios are short circuit conditions. It depends by the PSE output impedance as well. The difference between do_short_detect and do_overload_detect is a) the time TLIM or TOVLD b) Current thresholds c) Enforcement d) different states which requires two separate functions) SuggestedRemedy Change from: "do_short_detect			
different states which requires two separate functions) Short circuit current is defined SuggestedRemedy Response Response Change from: ACCEPT IN PRINCIPLE. "do_short_detect Control of the state of th	mit condition which is true ondition by only detecting t urrent limit circuitry which is d a current limit condition. ected a qualified current lir d a short circuit condition.	only to a specific implementa that the current pass some s allowed by figure 33-15. nit condition."	
Change from: ACCEPT IN PRINCIPLE. "do_short_detect OFF (1)			5"
"do_short_detect	ponse Status C		
This function monitors the PSE output current and detects an overload condition for TLIM OBE 41			
To:C/ 33SC 33.2.6.1"do_short_detectDarshan, Yair	P 53 Microsemi Corpor	L48 # 6	
This function monitors the PSE output current and detects a short circuit condition or an overload condition for TLIM within a sliding window."	mment Status A		EZ
Response Response Status C Response Res	ponse Status C		
ACCEPT IN PRINCIPLE. ACCEPT.			
OBE 39 OBE 43			

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 # 6

~ ~	00.0		850	1 50	# 7		01.00	<u> </u>		0-		1.05	# 0
<i>CI 33 Darshan, `</i>		3.2.6.1	P 53 Microsemi Co	L 50 rporation	# 7		Cl 33 Darshan, '		3.2.8.2	P58 Micros		L25 prporation	# 8
Comment		ER	Comment Status A			pics	Comment		ER	Comment Status note in lines 25-26:	Α		
We ca E.g. w See n Simila by at l	Draft D4 We can define only parameters that are measurable at the PI. E.g. we can not define behaviour of power supply or other circuits inside the PSE or PD. See multiple locations in the spec that explicitly state this concept. Similarily when PSE is evaluating the presentce of valid PD as stated in line 50, it is done by at least two measurements with Vport and not with Vdetect. Vdetect is internal variable. Vport is the variable which we have access to it. It is true that Vport is function of Vdetect but Vdetect is not a variable that is define in one							ext: E: In a pr due to th fully acur	operly op ne combir rate due t	erating system, the p nation of channel cap	acitanc	e and PD curren	
It is tre of the	ue that V tables in	port is fur the spec	nction of Vdetect but Vdetect			ie	"NOT	ge from: EIn a pr	roperly op	perating system, the			
Suggeste	dRemedy	/					range To:	due to th	ne combir	nation of channel cap	acitanc	e and PD curren	t loading."
it is pe	ermitted b	by the rule	figures 33-12 and 33-13 and es. /detect" with "Vport"	d leave the DC	supply part unlabele	ed if		due to th		perating system, the pation of channel and			
Response)	RINCIPLE	Response Status C				at leas	st 5 times	s higher tl	citance during detec hat the channel capa stem capacitance at	citance	so the channel of	
1. Del	lete Vdete	ect from f	igures 33-12 and 33-13 and	leave the DC s	upply part unlabeled	l.	Response ACCE			Response Status	С		
2. In li	ine 50: R	eplace "V	detect" with "Vport"										
See 4	6.												

Instruct the editor to adjust the PICs to match these changes.

Comment ID # 8

C/ 33 SC 33.2.9	P 60 Microsomi Co	L53	# 9	C/ 33	SC 33.2. Voir	9.2	P 61 Microsomi C	L49	# 10	
The spec requires that a parameter that is def Type 1 and 50 to 57V f Due to the fact that the from its minimum value is Vport, the spec requ The correct definition is	specification refer to Trise whete to its maximum valuse and n	10% to 90% of \ ich is a number hich is the entire hot to 10% or 90 tire port voltage	from 44V to 57V for e port voltage transition % of 44V to 57V which e range during turn on at	Chan Suggeste 1. Ch 2. Als Response	t Type TR D4.0 hange Imin2 ; ge Imin2_ma dRemedy ange Imin2_r so in 33.2.9.4	and Imin 1 x to Imin_n nax to Imin p. 62 line 1 <i>Res</i>	nax. _max.	orporation		pics
"From 10% to 90% of \	"additional information" colum /port" of the entire port voltage rang		n at POWER_UP state"	OBE C/ 33 Darshan,	SC 33.3.	4	P 73 Microsemi C	L 54	# [11	
a) 0V to Vport (Vport a		n 1)	to be from:	The r case Suggeste	D4.0 e 33-14, Input eader may as (otherwise po <i>dRemedy</i>	Inductance sume that rt will be sl	it can be inductance i horted at DC voltage)	. This is "series ir	nput inductance".	EZ
Response ACCEPT IN PRINCIPL Change the text in the "From 10% to 90% of V	"additional information" colum	in from:		Repla Response ACCI	9		put Inductance" with " sponse Status C	'Series input indu	ctance	

To: "From 10% to 90% of the voltage difference at the PI in POWER_ON state from the beginning of POWER_UP"

Page 4 of 86 3/12/2009 2:49:17 PM

2/ 33 Darshan, Yai	SC 33.3.7	P 77 Microsemi Co	L22	# 12		<i>CI</i> 33 Darshan, Yai	SC 33.4.8	P 87 Microsemi (L 51	# 13
			iporation						Jorporation	
Here is a Normal P "MDI_PC Since this	.0 some cleaning in other case t Powering state DWERx" when s is a PD spec	Comment Status A work in previous drafts in ord hat need some editing. is "POWER_ON" when we a we are refering to PD. elet's use the right term			EZ	Commer There is ALT A M We can a Rational:	D , 33.4.8, pag t: already a requ dspans.	uirement in the specification native to 33.4.8 text.	that guarantees	he operation of 100BT
iggestedRe	•					Alternativ	e A Type 2 M	lidspan PSEs that support ?		
"during to ""du	the text in iten g normal powe uring MDI_PO\	WERx state"				Type 1 Iu Which m	nb (see Table eans:	unbalance currents less tha e 33-11)." 1 levels increase PD Type		
esponse ACCEPT		Response Status C				350uH m	inimum i.e ma	ake the system as 350uH sy jing OCL from 350uH to 12	/stem.	and PD, we define a
Also this	term shows u	p in the PICs PD41, P120 L2	5.			to work in equation It was ap See moti See tech http://ww (3) Both both of th As a ress "Alternat unbaland The rest (Please s more def	100BT ALT was built for 3 proved and su proved and su proved and su proved and su proved and su proved and su eease802.org equirements em supportin It 33.4.8 can ve A Type 2 M e currents les s implementa ee attached p ails in the IEE	33-19 in 33.4.9.2) that 100 A Type 1 and Type 2 system 350uH systems. upported by a motion by Ya ww.ieee802.org/3/at/public/ ached to the motion in: y/3/at/public/2008/05/index. (1)+(2) above, 33.4.8 and 3 g 350uH system. be updated as follows: Midspan PSEs that support is than or equal to Type 1 In this than or equal to Type 1 In the don't care. presentation "ALT A Midspa E802.3at March 2009 site)	ns that uses OCL ir Darshan and Da 2008/05/minutes_ html i3.4.9.2 are equiva 100BASE-TX sha unb (see Table 33	of 350uH hence this avid Law. 0508.pdf alent alternatives i.e. Il enforce channel -11) or meet 33.4.9.2.
						SuggestedRe	-			
						unbalano To: "Alternat	ve A Type 2 M e currents les ve A Type 2 M	Midspan PSEs that support is than or equal to Type 1 Iu Midspan PSEs that support is than or equal to Type 1 Iu	inb (see Table 33) 100BASE-TX sha	-11). Il enforce channel
						Response		Response Status C		
						ACCEPT		, -		

Comment ID # 13

Page 5 of 86 3/12/2009 2:49:17 PM

Cl 25 SC 25.4.4a.1 Darshan, Yair	P 19 Microsemi Co	L 51 prporation	# 14		C/ 33 Darshan, Y	SC 33.3.5.2 ′air	1	P 75 Microsemi C	L 51 corporation	# 15
,	nment Status A 51 says: ohm termination resis uld exceed 2 kohm." fying the text in order stions that may be new stance" which part of 1 that determines Ibias' lify the text to be: ? termination resiston defined as (v1-v2) /lt 25-1" proposal for cla to compensate for" st the 100 ohm in ord termination resistanc ? termination resistanc nce which is defined a ircuit resistance shou	stor can be adjust to reduce the am eded to be clarific figure 25-1 is it? r can be adjusted pias. The test circ arifying the issue. : It is not clear wh ler to compensate then modify the r can be adjusted as (v1-v2)//Ibias, ild exceed 2 k?."	hount of test condition ed: d to compensate for cuit resistance shou hy a compensation i e the effect of the 2 e text to: d to compensate for on the total equival	ons the Id s	Comment We ne PSE n than P Suggested 1. Cha "Wher Figure detect 33-15. To: "Wher Figure preser 33-15. 2. Ado Item 3 Param Symbo Units:	Type TR ed to limit the ti hay be in overlo D current gets to Remedy nge the text fro the PD is prese 33-18, the PD is on signature as " the PD is prese 33-18, the PD is the parameter the parameter	me required to ad if the PSE s o Imark range. Imark range anting a mark e shall draw IMa defined in Tat enting a mark e shall draw IMa tection signatu Tmark_st to Ta ilization time usec (Yair:the r	Status D PD current to sets its current event signature rk as defined in ole event signature rk within Tmark ure as defined i able 33-17 with	get to Imark from limit from Iclass_ e as shown in the n Table 33-17 and e as shown in the k_st as defined in in Table n the following dat	d present a non-valid state diagram of Table 33-17 and
SuggestedRemedy Group to clarify it. My proposal is: 1. Add V1, V2 labels to Ibias to figure 25-1". 2. Modify Note 1 text to be: "NOTE 1-The value of the 100 the effect of the test circuit resi equivalent termination resistor	ohm termination resisting the second se	stor can be adjus ed as (v1-v2) /lb	sted to compensate bias, on the total	for	Additio 3. Add Tmark <i>Proposed</i> REJE0	Response	column: See 3 xt line 52 PAG om Vmark_th <i>Response</i>	E 75: to the time whe <i>Status</i> Z		its operating range.
	oonse Status C				the po the PS of the The P	rt in idle state) a E, you can assivoltage actually D requirement for te. The standa	nd since it was ume the PSE to entering this ro or mark voltage	s not our intent urns his port re egion. e makes no exe	tion to mandate a egulation to Vmar ception for "just a	arge time to discharge discharge function in k @ I mark in advance short time" it is a range. No change is

region)!						CI 33	SC 33.3.5.2	P 75	L43	# 17
This is not theor	etical - it works	Multiple manufactu	urers claim to hav	e compliant device	es.	Heath, Jeff	еу	Linear Teo	hnology	
(this comment n PDPeak_PD ref uggestedRemedy	GR Com	P62 Linear Techn ment Status A accidently submitted 33-17 appears to be	twice)	# [<u>16</u>	EZ	MinorP VRese (From (nment submitted roblemwithPDR t_th Minimum w Clay Stanford). S /oltage.pdf"	Comment Status A d with the file 3020470002 esetThresholdandResetVe as changed between draft See attached File "Minor F	oltage.pdf attached 3.1 and 3.3 and ap	pears to be in error
New Text for Lin	ne 33:	PD may draw for its PD may draw for its				Old VR	eset_th Min. Va Reset_th Min. V			
esponse	• •	onse Status C					PT IN PRINCIPL			
ACCEPT.							13 change Min e to 2.81V.	entry for T33-17, Item 5 to	2.81V and change	Max entry for T33-17,
						This ch		by comment 100 against	D3.1. Comment fo	ollows:
							_	d VReset max should corr Id dictates when the PD to		

voltage, as this threshold dictates when the PD transitions out of detection into the NOT_MDI_POWERED state.

Otherwise, it is possible for a PD to see a valid detection voltage, but churn through the states because of the VReset and VReset_th overlap.

Sugg remedy: Make both VReset max and VReset_th min 2.7V.

Response: ACCEPT.

C/ 33 SC 33.3.3	.5 P73	L1	# 18	C/ 33	SC 33.2.	8 P5	7	L27	# 19
Darshan, Yair	Microsemi Co	-	# 10	Darshan, `			semi Corpor		# 15
into the classification	Comment Status D S_EVENT3 creates a defined be n range repeatedly." how PD is brought to such scena		· ·	decide do cla (We a	04.0 ase of a PSE to not powe ssification ag llow system t	Comment Status that successfully complet r the PD or decides to go ain as long as Tpon is no o do detection and not co ted this ability from any p	ete classifica to IDLE and ot done yet is ontinue to ne	d start all fro s missing fro ext state just	m the beginning or to om the text. becausesystem
"NOTEDO_CLAS into the classification						ext after line 30 in page 5 fully completed classifica		cide due to s	system decision, to:
Proposed Response REJECT. This comment was	Response Status Z	r.				ation without doing detec Response Status	0	s long as Tp	on timer is not done yet"
always that the PSI	nded statement would not be inc E drives the link voltage, the PD o curs. That is, the PD does not b	drives the link o	urrent unless a special	The st	ate machine	vide justification. presently lets you redo o you are not recovering fr			ssification whenever

words needlessly complicates the standard.

Cl 33 SC 33.2.8 P55 L35 # 20	C/ 33 SC 33.3.5 P73 L1 # 21
Darshan, Yair Microsemi Corporation	Darshan, Yair Microsemi Corporation
Comment Type TR Comment Status D Draft D4.0 (SA) We require PSE to maintain Vmark prior to Startup for Type 2 system. If during Mark event 2 or even park event 1 PD was disconnected for a short period of time (e.g. less than 300msec) the PD lost its memory and will be powered as class 0 even if PSE did what he was required and disconnect time was less than 300msec Discussion: In Type 1 system this case is fully defined. t<300msec : system operates	Comment Type GR Comment Status D PD State Machine Draft D4.0 (SA) The "Note" in line 1: "NOTEDO_CLASS_EVENT3 creates a defined behavior for a Type 2 PD that is brought into the classification range repeatedly." DO_CLASS_EVENT3 should be DO_CLASS_EVENT_n due to the fact that DO_CLASS_EVENT3 will happen when PSE is going to startup and passing classification range once and when PD is passing Voff, Port voltage may drop to any value down to Vmark_min and voltage will ramp again (PSE is charging PD input capacitance) while crossing classification operating range hence DO_CLASS_EVENT4. So for the general case we need to replace NOTEDO_CLASS_EVENT3 with NOTEDO_CLASS_EVENT_n while n is the number of ocassions when Vport is passing through classification range as a result of PSE - PD interactions. SuggestedRemedy 1. Replace: "NOTE-DO_CLASS_EVENT3 creates a defined behavior for a Type 2 PD that is brought into the classification range repeatedly." With: "NOTE-DO_CLASS_EVENT1 creates a defined behavior for a Type 2 PD that is brought into the classification range repeatedly." With: "NOTE-DO_CLASS_EVENT_n creates a defined behavior for a Type 2 PD that is brought into the classification range repeatedly." With: "NOTE-DO_CLASS_EVENT_n creates a defined behavior for a Type 2 PD that is brought into the classification range repeatedly." With: "NOTE-DO_CLASS_EVENT_n creates a defined behavior for a Type 2 PD that is brought into the classification range repeatedly." With: "NOTE-DO_CL
This comment was WITHDRAWN by the commenter.	Figure 33-18.
	Proposed Response Response Status Z REJECT.
It is already undefined and out of scope. There is no need to enumerate all the things undefined and out of scope.	This comment was WITHDRAWN by the commenter.
	The existing DO_CLASS_EVENT3 permits multiple cycles.
	The transient behavior of the link is not incorporated in the state machine - Vport_PD is defined as a static value. Thus there is no need to create a lot of extra states.

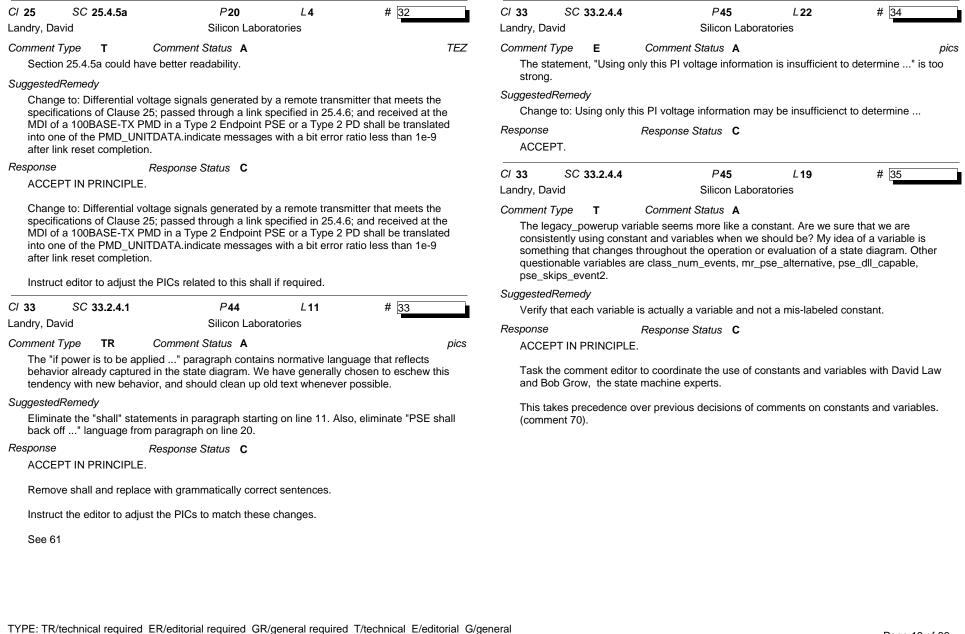
Comment ID # 21

C/ 01 SC 1.3	P17	L	# 22	C/ 33	SC 33.4.1		P 82	L35	# 25
Turner, Michelle				Thompson, M	ichael	Pe	entair Electroni	c Pac	
should be cited norn	Comment Status A the Normative reference clause. matively in text as well.	. It is also cited in	n a note (informative). It	certificatio	requirement ir on testing. Not		1:2001 standar 2.2 of IEC 6095	50-1:2001 say	only used for ys that a 1 s duration gnificant testing time t
SuggestedRemedy				a product		testing. Requiring	y a oo s uurau	un will aud Si	gnincant testing time t
Response ACCEPT IN PRINC	Response Status C				for 60 s, app	lied as specified i or production testi		.2.2 of IEC 60	0950-1:2001. A 1 s te
OBE 28				Response REJECT.		Response Stat	tus C		
C/ 00 SC 0 Obara, Satoshi	<i>Р</i> Fujitsu Comp	<i>L</i> ponent LT	# 23		t specify prod	uction testing, onl	ly interoperab	ility.	
Comment Type E I can find many "See	Comment Status A e IEEE802.3, Clause XX" and "S	See Clause XX"	in the draft text.						
I can find many "See SuggestedRemedy			in the draft text.						
I can find many "See SuggestedRemedy	e IEEE802.3, Clause XX" and " EEE802.3, Clause XX" into "Sec <i>Response Status</i> C		in the draft text.						
I can find many "See SuggestedRemedy Please Unify "See II Response	e IEEE802.3, Clause XX" and " EEE802.3, Clause XX" into "Sec <i>Response Status</i> C		in the draft text.						
I can find many "See SuggestedRemedy Please Unify "See II Response ACCEPT IN PRINC OBE 179 C/ 00 SC 0	e IEEE802.3, Clause XX" and " EEE802.3, Clause XX" into "Sec <i>Response Status</i> C	e Clause XX".	in the draft text. # 24						
I can find many "See SuggestedRemedy Please Unify "See If Response ACCEPT IN PRINC OBE 179 C/ 00 SC 0 Obara, Satoshi	e IEEE802.3, Clause XX" and "S EEE802.3, Clause XX" into "Sec <i>Response Status</i> C IPLE.	e Clause XX".							
I can find many "See SuggestedRemedy Please Unify "See If Response ACCEPT IN PRINC OBE 179 C/ 00 SC 0 Obara, Satoshi Comment Type G For readers' compre	e IEEE802.3, Clause XX" and "S EEE802.3, Clause XX" into "Sec <i>Response Status</i> C IPLE. <i>P</i> Fujitsu Comp <i>Comment Status</i> R ehension, please add informative ationship between exsiting 802.3	e Clause XX". <i>L</i> ponent LT e annex							
I can find many "See SuggestedRemedy Please Unify "See IE Response ACCEPT IN PRINC OBE 179 C/ 00 SC 0 Obara, Satoshi Comment Type G For readers' compre which describes rela and Type1/Type2 de	e IEEE802.3, Clause XX" and "S EEE802.3, Clause XX" into "Sec <i>Response Status</i> C IPLE. <i>P</i> Fujitsu Comp <i>Comment Status</i> R ehension, please add informative ationship between exsiting 802.3	e Clause XX". <i>L</i> ponent LT e annex							
I can find many "See SuggestedRemedy Please Unify "See II Response ACCEPT IN PRINC OBE 179 C/ 00 SC 0 Obara, Satoshi Comment Type G For readers' compre which describes rela and Type1/Type2 de SuggestedRemedy	e IEEE802.3, Clause XX" and "S EEE802.3, Clause XX" into "Sec <i>Response Status</i> C IPLE. <i>P</i> Fujitsu Comp <i>Comment Status</i> R ehension, please add informative ationship between exsiting 802.3	e Clause XX". <i>L</i> ponent LT e annex							

The Task Force believes that 33.3.2 describes the relationship between Type 1 and Type 2 PDs. Lacking specific text in the Suggested Remedy, there is nothing to include in the draft as an informative annex.

CI 33 S	C 33.2.9.6	P 62	L 42	# 26		CI 33	SC	33.3.5.2	P 75	L 40	# 27
Darshan, Yair		Microsemi Co	orporation			Darshan, `	Yair		Microsemi C	orporation	
Comment Type Draft D4.0 (33.2.9.6 De addressing Tinrush mir 0.45A) is ke If implemen PSE is allow 10V<=Vpor not permitte Example: If the PD in from 30V to 30V)/0.4)=E It became V So the ques It is obvious for the PSE implement S SuggestedRem Suggested Replace the "The specif With: "The specif	(SA): affines the corr the condition imum is 50n ept at any po- ner uses iten wed to suppli- t<=30V as T ed. put capacitor o 57V, We ge 35ms>75mse vorse with high stion is: What is to test line 33.2.9.6 (d) a redy Remedy: a text of line ication for line	Comment Status R hditions required to meet the ns for meeting Tinrush as w nsec which was originally ca rt voltage from zero to Vpor ns (d) and (e) for Foldback of y linrush=60mA minimum (a inrush may result with much r is 150uF and PSE uses lin et Tinrush=150uF*(30V/0.06 ec.(After 75msec, port must gher capacitors value which t are the conditions in which e same conditions as linrush rush and Tinrush from 30V and (e).	e specifications fo ell. alculated as long t. current limit imple and not 0.4 to 0.4 h higher time dura forush=60mA from SA + (57V- turn OFF). h also supported t h Tinrush should l h is tested i.e. the to Vport if implem	as linrush (0.4A to mentation in which 5A) as long as tition >75msec whi 0V to 30V and 0.4 by this specification be tested. minimum requirer enter chooses to be tested.	n ch is 1A ns. nent	Comment *** Co attach Draft I Possik A PSE Cable PD ca PD ca Hence During Iclass. Assun port di Vclass 1. Nov identif 2. If V 15.8V 3. If V 12.2V So we a) PSI b) PSI	Type mment led *** D4.0 Table inter is alloo capacitan pacitan pacitan total c g Vmark g Vmark g Vmark g Vmark s-0.25m w if Vcla y the 2r class is so aga class is so aga class is so have ti E can n	able 33-17 roperability wed to have tance is 10 ice during apacitance Event PD of c_th range 0 vendor us ark event i vA*6msec/ ass is 20.5 in PD can in PD can 14.5V (low MAY be Id he followin ot support	Comment Status D I with the file 30634700024- items 3 and 4: / issue: /e up to 0.52uF in its output 0nF max for 100m. detection in 0.12uF max. classification is undefined. e is 0.65uF at least for the v current can be as low as 0.3 the current can be any nun se 0.25mA all the way for V for TCLE1/2_min=6msec w 0.65uF= Vclass-2.304V. V than port voltage at mark	Vmarkvslmarkat (Worth seperate vorst case. 25mA. nber between 0.1 mark_th range t ill be: event of 6msec ort voltage at ma vent. ort voltage at ma O Vmark_th is lo spec.	comment) 25mA to 44mA or to hen the voltage at the is 18.2V so PD can not rk event of 6msec is ark event of 6msec is wer than 12.2V
from 0V to ^v Response REJECT.	Vport but this	ne implementation being use s is not the minimum require <i>Response Status</i> U ot reach consensus, rejecte	ement.	net at port voltage		Imarka At the If we u PSE: 0 PD: 0 not co Then t Vclass See a Concli We do issue: Suggested Add th	=0.25m se conc use typi 0.2uF , .1uF , Ir nntrol wh the volt s-0.25m ttached ussions ont wan To req dRemec ne follow	A for the e ditins syste cal numbe TCLE1/2= mark=0.25 hat PD will age at the hA*9msec/ simulation :: t to change uire PD to dy wing item a	entire Vmark_th range. PSE em is broken. ers i.e. middle range numbe 9msec, Vclass=18V. mA for the entire Vmark_th	is using 0.52uF rs such: range, Vmark_t TCLE1/2_min=9 his case will not t typical conditio can do simple o Vport>Vmark_th	max, TCLE1/2=6msec h=10.2V (legalPSE ca msec will be: work too. ns" file. change that will fix the n.

		•				
Proposed Response REJECT.	Response Status Z	C/ 25 Landry,	SC 25.4.4a .′ David	P 19 Silicon Laborat	L 29 tories	# 30
This comment was W	ITHDRAWN by the commenter.		re may be confusio	Comment Status A on about which portion of the P esponds to the test circuit itself		EZ is the device-under-test
range. A PD will drav 14.5V) at which point Class Event to the Ma "To require PD to con	ctly assumes a PD will draw mark current in the classification voltage v class current until it hits the lower threshold (something less than it will start to draw mark current - but the PD has switched from the ark Event, so it already knows that it is in the Mark State. usume Iclass as long as Vport>Vmark_th"	Suggest Drav right Respons ACC	edRemedy w a dashed line thi side with "test cire se CEPT.	ough the terminals, and annota cuit" <i>Response Status</i> C		with "DUT" and the
	as the PD internals will inherently distinguish the class/mark nes its loading to meet the existing voltage/current requirements. The	See	219 for additional	text.		
existing PD requirement thresholds. The pres	ents guarantee that it has self-aligning class/mark detection sence of the loop resistance requires the PD to have some not explicitly called out, it is required.	Cl 25 Landry,	SC 25.4.4a. ′ David	P 19 Silicon Laborat	L 50 tories	# 31
Cl 01 SC 1.3 Landry, David Comment Type E	P17 L11 # 28 Silicon Laboratories Comment Status A rences to 802.1 exist in 802.3bc, which will likely precede 802.3at in	Suggest Star Respons	terms "test circuit" edRemedy adardize on one te	Comment Status A and "test fixture" are used inco rm, preferably "test circuit." <i>Response Status</i> C .E.	onsistently.	EZ
Remove the editor's r	note and 802.1AB and 802.1AX references.	Rep	lace "test fixture" v	vith "test circuit."		
Response ACCEPT.	Response Status C					
C/ 01 SC 1.5 Landry, David	P18 L3 # 29 Silicon Laboratories					
Comment Type E These definitions of L	Comment Status A LDP exist in 802.3bc, which will likely precede 802.3at in ratification.					
SuggestedRemedy Remove the LLDP an	d LLDPDU abbreviations.					
Response ACCEPT.	Response Status C					



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 # 35

Page 13 of 86 3/12/2009 2:49:17 PM

C/ 33 SC 33.2.4.6 P48 L41 # 36	C/ 33 SC 33.2.4.6 P49 L6 # 38
Landry, David Silicon Laboratories	Landry, David Silicon Laboratories
Comment Type E Comment Status A This sentence has some issues: "The variable signature as defined in 33.2.7 and the variable mr_valid_signature." First, the variable signature is NOT defined in 33.2.7, which describes the method of detection probing and the electrical parameters of a valid PD detection signature but makes no mention of any state diagram variables. Second, this sentence seems redundant, as it is naming two variable which are reproduced immediately below. SuggestedRemedy	Comment Type ER Comment Status A E2 The word "return" should be plural. SuggestedRemedy Change "return" to "returns." Response Response Status C ACCEPT. Comment Status C
Strike the sentence on line 41.	C/ 33 SC 33.2.4.6 P49 L14 # 39
Response Response Status C	Landry, David Silicon Laboratories
ACCEPT IN PRINCIPLE.	Comment Type TR Comment Status A pice
Strike the sentence on line 41 and replace the sentence on line 40 with "This function returns the following variables:"	There is a copy-paste error in the first sentence of the do_short_detect function description. The function does not detect an overload condition only; it detects a short circuit (and by extension, an overload) condition.
C/ 33 SC 33.2.4.6 P48 L50 # 37 Landry, David Silicon Laboratories	SuggestedRemedy Change " detects an overload condition" to " detects a short cicuit condition or an
Comment Type TR Comment Status D pics	overload condition"
The variable, mr_valid_signature, seems to be used only once in the state diagram: set to FALSE in the IDLE state. It does not appear anywhere else. The diagram instead mostly uses (signature == valid).	Response Response Status C ACCEPT IN PRINCIPLE.
SuggestedRemedy Strike the function variable mr_valid_signature. Proposed Response Response Status Z REJECT.	This draft considers a PSE PI supplying more than Pclass to be in overload, when the PI is in current limit, the port is considered to be in a short circuit condition. Therefore, when the port is in current limit, both a short circuit and an overload condition exist. However, a function designed to detect a short should not be asserted when only an overload condition exists.
This comment was WITHDRAWN by the commenter.	The function is used to monitor a short.
	Change " detects an overload condition " to " detects a short circuit condition "
	See 237, 4, 41
this is not completely broken, it serves a trivial function. Accepting this comment results in no changes to the text.	

C/ 33 SC 33.2.4.6 Landry, David	P 49 Silicon Labora	L15 atories	# 40		CI 33 Landry, Da	SC 33.2.0 ivid	6.1	P 53 Silicon Labo	L 48 ratories	# 43	
Comment Type ER The word "return" shou SuggestedRemedy Change "return" to "retu	•			EZ	14). Suggested	is an extrane		ment Status A the parenthetical s	tatement, (as spe	cified in and Table 3	<i>EZ</i> 33-
Response ACCEPT.	Response Status C				Response ACCE	the "and" PT.	Respo	onse Status C			
C/ 33 SC 33.2.4.6 Landry, David Comment Type TR	P 49 Silicon Labora Comment Status A	L 19 atories	# 41	pics	C/ 33 Landry, Da	SC 33.2.0	5.1	P 53 Silicon Labo	L 53 ratories	# 44	
The do_short_detect fu should be monitoring fo SuggestedRemedy	unction isn't really looking for a short circuit condition.		ode in the PSE. It	pios		OTE is not ve may be diffic	ery good adv			ge at the port to settle nature due to excess	
Change "current limit" 1 Response ACCEPT.	to "short circuit" on lines 19 a Response Status C	nd 20.				the note may		od idea, and its not low to make voltage		ve really shouldn't ha ements delete it.	ave
see 39, 237, 4, 5					Response ACCE	PT IN PRINC		onse Status C			
C/ 33 SC 33.2.4.7 Landry, David Comment Type TR	P 50 Silicon Labora Comment Status A		# 42	pics	NOTE measu	rement shou	before volta Id be taken a	age or current meas after VPSE has sett nature connected a	led to within 1 %	of its steady state	
IDLE, and the transition (mr_pse_enable != forco or (mr_pse_enable = d unconditional entry into	E to START_DETECTION, the n from TEST_ERROR to IDLE ce_power). This could technic lisable). However, the state (no the DISABLED state. There able != force_power) is actual	all contain the al be true if (mr nr_pse_enable ore, the only me	qualifier _pse_enable = enat = disable) triggers a eaningful value for t	n	will se	ttle to a final	value in k x ().15 x 26500 = k x 4	1 ms maximum.	naximun Rvalid valu 15 = 67 time longer.	
SuggestedRemedy Change occurrences o	f (mr_pse_enable != force_pc nefit of being easier to follow	wer) to (mr_pse	e_enable = enable).		Many	network devi	ces that are i	sure that adequate not PDs have resist as during detection	ors and capacitor		on.
Response ACCEPT.	Response Status C	-			See 2	39.					

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 # 44

Page 15 of 86 3/12/2009 2:49:18 PM

33	SC 33.2.8	P 55	L35	# 45		33.2.8.1	P 57	L 49	# 47	
andry, Dav	vid	Silicon Labor	atories		Landry, David		Silicon Labora	tories		
Comment T	Гуре E	Comment Status A			Comment Type	ER	Comment Status A			EZ
		2.8 should make mention of r	nutual identificati	on, since it is an	" at Type 2	2 PSE shal	I return" should be " a Typ	e 2 PSE shall i	return"	
•		vent classification.			SuggestedReme	edy				
Suggested		PSE classification of PDs" to	"Mutual identified	ation and DCC	Make it so.					
	cation of PDs"			alion and FSE	Response		Response Status C			
Response		Response Status C			ACCEPT.					
ACCEF	PT IN PRINCIPL				CI 33 SC	33.2.8.2	P 58	L 43	# 48	
Change	e the title from "	PSE classification of PDs" to	"PSE classificati	on of PDs	Landry, David		Silicon Labora	tories		
	itual Identificatio				Comment Type	Е	Comment Status A			
33	SC 33.2.9	P 60	L13	# 46	The last par Event classi	0.1	the page should mirror the lan	guage of the si	milar behavior for	1-
andry, Dav	vid	Silicon Labor	atories		SuggestedReme	edv				
Comment T	Type TR	Comment Status A		pics		-	assumes the PD" should be	e " the PSE tr	eats the PD as a T	[vpe
		uld be discontinued. There a			1"					700
		E, (2) the static output voltage bltage at the PSE's PI, (4) the			Response		Response Status C			
voltage	at the PD's PI.	We have already named (2) d (4) VPD. This eliminates ar	VPort_PD, and (3) VPSE. We should	ACCEPT.					
Suggested	Remedy				CI 33 SC	33.2.9	P 60	L16	# 49	
	-	em 1 to "Vport_PSE" and use	e this term whene	ever referencing this	Landry, David		Silicon Labora	tories		
		currences of Vport to VPSE	or VPD as neede	ed to refer to the	Comment Type	т	Comment Status A			pics
	aneous port von	age of the relevant PI.					eed for two voltage specs that	are identical w	vith different name	S
Response	PT IN PRINCIPL	Response Status C				0	s load regulation).			
ACCEF		- E .			SuggestedReme	,				
Perform	n suggested rer	nedy.					collapse sections 33.2.9.1 and suming we changed the name			
Also, a	djust PICS as n	eeded.			does!).	- (
					Response		Response Status C			
					ACCEPT IN	PRINCIPL	.E.			
					OBE 141					

Cl 33 Landry, David	SC 33.2.9 d	P 60 Silicon Labora	L 38 atories	# 50		C/ 33 Landry, D		33.2.9	P 61 Silicon Labora	L 22 tories	# 52	
Comment Typ Tovld is a SuggestedRe	rpe E a but of a non s	Comment Status A equitur, since we have mate	hin linrush/Tinru	ush and Ilim/Tlim.	pics	genei Suggeste	ction ba al sound dRemed	ding. dy	Comment Status A should only apply to Alt B de coff time" to "Alternative B de	·		<i>TEZ</i>
	IN PRINCIPLE	Response Status C E.				Response ACCE	9		Response Status C			
0		ust the PICs to match these	changes.			C/ 33 Landry, D		33.2.9.2	P 61 Silicon Labora	L 49 tories	# 53	
highest c	current limit.	LIM, and OVLD confusing b placing it with CUT removes	ŗ		the	Suggeste	no long dRemed	TR Jer exists. <i>dy</i> 2 to Imin	Comment Status A			pics
Landry, David		P 61 Silicon Labora	L 11 atories	# 51			EPT IN F	PRINCIPLE	Response Status C			
SuggestedRe Change " simplicity Proposed Re REJECT.	, out "Maintain F emedy "Maintain Powe /. esponse	Comment Status D Power Signature" after an en er Signature" to "MPS" in iten Response Status Z HDRAWN by the commente	ns 19 and 20 fo		PSE on.	Suggeste	SC avid <i>Type</i> no long dRemed	33.2.9.4 TR Jer exists. dy 2 to Imin	P 62 Silicon Labora Comment Status A	L13 tories	# 54	pics
Replace "DC MPS and item	table 33-11, pa S"	rameter, item 19 with:				Response ACCE OBE	EPT IN F	PRINCIPLE	Response Status C			

C/ 33 SC 33.2.9.5	P 62	L 31	# 55		C/ 33 S	C 33.2.9.6	P 62	L 41	# 57
Landry, David	Silicon Labora	tories			Landry, David		Silicon Labora	atories	
Comment Type E	Comment Status A			ΕZ	Comment Type	F TR	Comment Status A		pics
The dangling line from	the Rchan definition is improp	perly indented.					rush requirements is awkward		
SuggestedRemedy					explicitly n inrush?	ention anyw	here that the PSE is suppose	ed to be limiting	the current during
Indent the line so it line	es up with the rest of the defini	ition body			SuggestedRer	nedy			
Response	Response Status C				Leave the	first paragra	ph of 33.2.9.6. Replace line 4	2 with "The PSE	E shall limit the
ACCEPT.					maximum	current sour	ced at the PI during POWER	UP. The maxim	num inrush current
C/ 33 SC 33.2.9.6	P62	L41	# 50				all not exceed the PSE inrusl ord item (c) as: During POWE		
			# 56				ement is 400mA. Reorder ite		
Landry, David	Silicon Labora	tories			port voltag	e.		., .,	-
Comment Type TR	Comment Status D			pics	Response		Response Status C		
•	ving a specification for linrush and timing based changes to		e immediately start		ACCEPT I	N PRINCIPL	E.		
SuggestedRemedy					Leave the	first paragra	ph of 33.2.9.6.		
Remove linrush from the they will learn all about	he table. The Tinrush spec wil t how linrush works.	l direct the reade	er here anyway, whe	ere			he PSE shall limit the maxim imum inrush current sourced		0
Proposed Response	Response Status Z					plate in Figu			
REJECT.									
							. Reword item (c) as: During		
This comment was WI	THDRAWN by the commenter						ish requirement is 400mA. Re . (d) -> (b), (e) -> (a).	eorder items (d)	
					Instruct the	editor to ad	ljust the PICs to match these	changes.	
Tinrush is used in too i	many places. If it is removed	from the table it	should be defined.						

C/ 33	SC 33.2.9.8	P 64	L 48	# 58		CI 33	SC 33.2.10	P66	L13	# 61
Landry, Da	avid	Silicon Labora	atories			Landry, Da	vid	Silicon Labo	oratories	
Comment	Type TR	Comment Status R			pics	Comment 7	Type TR	Comment Status A		sha
802.3	af current levels,	gy limitation constant is depre which are exceeded even at o enforce the same empirical	DC in Type 2 sy	iginally derived from stems. It seems			te diagram captu mative term extra	ires the power on behavior aneous.	r related to this sh	all statement making
	, ,	o enforce the same empirical	constant.			Suggested	-			
Suggested	•	from (0.5A * 0.5A * 100ms) to	\[(600mA*450/?	(50) (0.02 * 75mc] = 0.04	5	Remov	e "shall"			
		ntercepts with the 50A and 1.			0	Response		Response Status C		
Response	9	Response Status U				ACCER	PT IN PRINCIPLE			
REJE	CT.					Replac	e shall with does			
	o accept the com I: 5 A:4	iment				Remov	e associated PIC	S.		
fails no cor	nsensus to chang	ge and comment is rejected by	y default			<i>CI</i> 33 Landry, Da	SC 33.2.11.1. : vid	2 P67 Silicon Labo	L 48 pratories	# 62
CI 33	SC 33.2.9.13	P66	L 3	# 59		Comment	vpe ER	Comment Status A		E
_andry, Da	avid	Silicon Labora	atories				51	redundant redundant.		
		Comment Status A tures the Tpon behavior relate	ed to this shall s	-	Shall e	Suggested. Change	R <i>emedy</i> e to "the PSE PI"			
		:0us.				Response		Response Status C		
Suggested Remo	ove "shall"					ACCE	РТ.			
Response ACCE	EPT IN PRINCIPL	Response Status C E.								
Remo	ove shall and mak	e the sentence gramatically c	correct.							
C/ 33 Landry, Da	SC 33.2.9.14 avid	P 66 Silicon Labora	L 8 atories	# 60						
Comment It seer		Comment Status A ve a section, 33.2.9.14, whose	e only contents	are a NOTE.	EZ					
00	dRemedy ote the NOTE to a	a real paragraph.								
Response ACCE		Response Status C								

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

Comment ID # 62

CI 33 SC 33.2.	11.1.2	P 67	L 53	# 63		C/ 33	SC 33.2.11.1	.2	P 68	L11	# 65	
Landry, David		Silicon Labora	atories			Landry, Davi	d		Silicon Labora	atories		
Comment Type TR	Comment	Status D			pics	Comment Ty	pe TR	Comment	Status A			pic
Buried in item 3a is met when AC MPS would suffice.				d noise spec should a direct statement	d be	is an ent	ire section (33.	2.11.1.1) that		these statemer	in a table, when its with additior	
SuggestedRemedy						SuggestedR	emedy					
				shall meet the powe		Remove	the "shalls"					
feeding ripple and valid PD connected		of Table 33-1	1 when probing	for the AC MPS with	ha	Response		Response	Status C			
Proposed Response	Response S	Status 7				ACCEP	IN PRINCIPL	E.				
REJECT.	Response					4a, para					impedance "	
						Domovo	"Choll not rom		om the DI" Dee	looo with "Volid		
This comment was	WITHDRAWN by	the commenter	r.			Remove	"Shall not rem	ove power fro	om the PI." Rep	lace with "Valid	impedance.	
	WITHDRAWN by	the commenter	r.			4a, addi	"Shall not rem ional information intence "Imped	on:		lace with "Valid	impedance.	
						4a, addi Strike se	ional information entence "Imped	on: ance shall	component."		alid impedance."	
This comment was Accept and instruct	t the Editor to adjus	st the PICs as r	required.	# 64		4a, addi Strike se 4b, Rem	ional information Intence "Imped Intence "Shall rem	on: ance shall ove power fro	component."	lace it with, "Inv		
This comment was Accept and instruct Cl 33 SC 33.2. Landry, David	t the Editor to adjus	st the PICs as r P 68 Silicon Labora	required.	# 64		4a, addi Strike se 4b, Rem	ional information Intence "Imped Intence "Shall rem	on: lance shall ove power fro just the PICs	component." om PI." and rep	lace it with, "Inv		
This comment was Accept and instruc C/ 33 SC 33.2. Landry, David Comment Type TR	t the Editor to adjust 11.1.2 Comment 5	st the PICs as r P68 Silicon Labora Status A	required. L 7 atories		EZ	4a, addi Strike se 4b, Rem Instruct	ional information intence "Imped ove "Shall rem he editor to ad	on: lance shall ove power fro just the PICs	component." om PI." and rep to match these	lace it with, "Inva changes. <i>L</i> 37	alid impedance."	
This comment was Accept and instruct Cl 33 SC 33.2. Landry, David Comment Type TR Table entry 3c is an	t the Editor to adjust 11.1.2 Comment states of the second s	st the PICs as r P68 Silicon Labora Status A nunt that is unn	required. <i>L</i> 7 atories ecessary, since	the reader should		4a, addii Strike se 4b, Rem Instruct f	ional information intence "Imped ove "Shall rem he editor to ad SC 33.2.11.1 d	on: lance shall ove power fro just the PICs	component." om PI." and rep to match these P68 Silicon Labora	lace it with, "Inva changes. <i>L</i> 37	alid impedance."	E
This comment was Accept and instruct Cl 33 SC 33.2. andry, David Comment Type TR Table entry 3c is an	t the Editor to adjust 11.1.2 Comment a nother scavenger habout TMPDO in th	st the PICs as r P68 Silicon Labora Status A nunt that is unn	required. <i>L</i> 7 atories ecessary, since			4a, addi Strike se 4b, Rem Instruct f <i>CI</i> 33 Landry, Davi <i>Comment T</i> y These n	ional information intence "Imped ove "Shall rem he editor to ad SC 33.2.11.1. d pe E potes on Rpd_d	on: ance shall ove power fro just the PICs 2 Comment	component." om PI." and rep to match these <i>P</i> 68 Silicon Labora	lace it with, "Inv changes. <i>L</i> 37 atories	alid impedance."	
This comment was Accept and instruct Cl 33 SC 33.2. Landry, David Comment Type TR Table entry 3c is an already have read defined in text in se	t the Editor to adjust 11.1.2 Comment a nother scavenger habout TMPDO in th	st the PICs as r P68 Silicon Labora Status A nunt that is unn	required. <i>L</i> 7 atories ecessary, since	the reader should		4a, addi Strike se 4b, Rem Instruct f <i>CI</i> 33 Landry, Davi <i>Comment T</i> y	ional information intence "Imped ove "Shall rem he editor to ad SC 33.2.11.1. d pe E potes on Rpd_d	on: ance shall ove power fro just the PICs 2 Comment	component." om PI." and rep to match these <i>P</i> 68 Silicon Labora	lace it with, "Inv changes. <i>L</i> 37 atories	alid impedance." # <u>[66</u>	
This comment was Accept and instruct Cl 33 SC 33.2. Landry, David Comment Type TR Table entry 3c is an already have read defined in text in se	t the Editor to adjust 11.1.2 Comment a nother scavenger habout TMPDO in th	st the PICs as r P68 Silicon Labora Status A nunt that is unn	required. <i>L</i> 7 atories ecessary, since	the reader should		4a, addi Strike se 4b, Rem Instruct f <i>CI</i> 33 Landry, Davi <i>Comment T</i> y These n	ional information intence "Imped ove "Shall rem the editor to ad SC 33.2.11.1. d <i>SC</i> 83.2.11.1. d <i>pe</i> E otes on Rpd_d ure.	on: ance shall ove power fro just the PICs 2 Comment	component." om PI." and rep to match these <i>P</i> 68 Silicon Labora	lace it with, "Inv changes. <i>L</i> 37 atories	alid impedance." # <u>[66</u>	
This comment was Accept and instruct Cl 33 SC 33.2. Landry, David Comment Type TR Table entry 3c is an already have read defined in text in se SuggestedRemedy	t the Editor to adjust 11.1.2 Comment a nother scavenger habout TMPDO in th	st the PICs as r P68 Silicon Labora Status A nunt that is unn- he Table 33-11	required. <i>L</i> 7 atories ecessary, since	the reader should		4a, addii Strike se 4b, Rem Instruct f <i>CI</i> 33 Landry, Davi <i>Comment Ty</i> These n of the fig <i>SuggestedR</i>	ional information intence "Imped ove "Shall rem the editor to ad SC 33.2.11.1.1 d ppe E potes on Rpd_d ure. emedy	on: lance shall ove power fro just the PICs .2 <i>Comment</i> and Cpd_d sl	component." om PI." and rep to match these <i>P</i> 68 Silicon Labora	lace it with, "Inva changes. <i>L</i> 37 atories rt of the figure ti	alid impedance." # <u>[66</u>	

C/ 33 SC 33.2.1	I1.1.2 Pe	58 L 52	# 67		CI 33	SC	33.3.2		P 70	L 22	# 70
andry, David	Silico	on Laboratories			Landry, Da	avid			Silicon Labor	atories	
	<i>Comment Status</i> s rather devoid of meani sistor may mislead peop	ngful content. In fact,	denoting an AC			D state		Comment constants and Then why not p	variables shou		<i>PD Variable</i> ver for proper usage. Is
SuggestedRemedy Strike Figure 33-17					Suggeste	dRemed	ły	ariable usage.			
Response ACCEPT IN PRINC	Response Status CIPLE.	С			Response ACCE		PRINCIPL	Response S _E.	Status C		
Strike Figure 33-17	o Figure 33-17 to point c	ot Fig 33-16.			802.3 set.	section	21.5.2 in	nplies that a va	riable may hav	ve a default and	has its value dynamic
Fig 33-16 should sa	0	0						d pd_dll_capat shed statically t			o have a dynamic
C/ 33 SC 33.3 andry, David	P (Silico	59 <i>L</i> 1 on Laboratories	# 68					he Variable see stant indicating		2 Constant secti	on, and reword to
Comment Type E The title for section	Comment Status 33.3 should follow the t			EZ				ed by comment something like			om section 33.2.4.4 to
SuggestedRemedy Change "Powered o	devices" to "Powered de	evices (PDs)"			C/ 33 Landry, Da		33.3.3.3		P 70 Silicon Labora	L 57 atories	# 71
Response ACCEPT.	Response Status	С			<i>Comment</i> pd_dl		ER le and pd	<i>Comment</i> I_dll_enabled p		33.5. This is inc	PD State Variable orrect.
C/ 33 SC 33.3 andry, David	P (Silico	59 <i>L</i> 3 on Laboratories	# 69		Suggester Point	dRemed to "see					
	Comment Status	-	t and not completely		Response ACCE		PRINCIPL	Response S _E.	Status C		
correct.					ed no	te: this i	s line 47,	not 57.			
SuggestedRemedy Change to, "A PD is	s the portion of a DTE th	iat is"			remov	/e: "see	33.5"				
Proposed Response REJECT.	Response Status				See a	lso com	ment 70.				
This commont was											

This comment was WITHDRAWN by the commenter.

Cl 33 Landry, Dav	SC 33.3.3.3	P 71 Silicon Labor	L 15 atories	# 72	C/ 33 Landry, Da		33.3.3.3	P 71 Silicon Labor	L 43	# 74	
Comment T The pow to be sp SuggestedF Change Response ACCEP From: power_I An indic To: power_I	ype E wer_received value value becified at the P Remedy e "present on the PT IN PRINCIPL received cation from the or received	Comment Status A ariable talks about power "pro I. e link" to "present at the PI." <i>Response Status</i> C E.	esent on the link t on the link.		Comment Type ER Comment Status A PD State Vport_PD is an electrical parameter denoting the static voltage input at which the F functions. It is being used here to denote the instantaneous voltage measurement a which could have any value from 0V to 57V. This is wrong. SuggestedRemedy Use "VPD" instead, as discussed in the comment calling for better differentiated terminology for static operating voltages and instantaneous voltage measurements respective Pis. Response Response Status C ACCEPT IN PRINCIPLE. 1) use suggestion 2) This also impacts ~7 locations in Figure 33-18 (PD state diagram)						
C/ 33 Landry, Dav	SC 33.3.3.3	circuitry that power is presen P71 Silicon Labor	L 32	# [73	C/ 33 Landry, Da	SC	ment 46 33.3.3.5	P 73 Silicon Labor	L 4 atories	# 75	
Comment T The pre	<i>ype</i> E esent_mps varia ed at the PI.	Comment Status A ble talks about MPS "applied	d to the link." The	PD State Variables e PD is supposed to be		OTE is settle	on a class	Comment Status D a, as the Tclass variable in it signature.	self establishes	PD State Machin the concept that it takes	
00		link" to "applied to the PI." Response Status C				the NO	TE.	Response Status Z			
	PT IN PRINCIPL				REJE This c	-	t was WIT	HDRAWN by the commenter	ər.		
	mment 72				This w	vas put i range, t	into the sta	andard to address the need need for the PD to respond	for the voltage t		

C/ 33 SC 33.3.4	P 73	L37	# 76	C/ 33 SC 33.3.5.2.1	P 76	L11	# 78
Landry, David	Silicon Labora	tories		Landry, David	Silicon Labora	tories	
	Comment Status A about signature guardbands a valid PD is unnecessary.	nd a PD that pr	PD Detection esents a non-valid	SuggestedRemedy Replace NOT_MDI_POW	Comment Status A ED state has been eliminate /ERED with IDLE <i>Response Status</i> C	əd.	TE
Tables 33-14 and 33-15 correspond to either.	5 present Valid and Invalid sig d detection signature regions be are the ranges 2.0 kO to 23	are separated b	y guardbands. The	Cl 33 SC 33.3.7.9 Landry, David Comment Type E It seems strange to have SuggestedRemedy Promote the NOTE to a m	P 81 Silicon Labora <i>Comment Status</i> A a section, 33.3.7.9, whose eal paragraph.		# <u>79</u> e a NOTE.
A PD that presents a si	ment changing the paragraph gnature outside Table 33-14 i of Table 33-15 is assured to f	s non-complian	t, while a PD that	ACCEPT IN PRINCIPLE.	Response Status C	ce to 33.3.7.9 to	33.3.7.2.1. Delete
even link it with Table 3 SuggestedRemedy	P74 Silicon Labora Comment Status A without any preamble or expla 33-14, as is apparently intende of what the figure is trying to s Response Status C	nation. It is difficed.		section 33.3.7.9			
ACCEPT IN PRINCIPL		ions column "se	e Figure 33-19"				

C/ 33	SC 33.6		P 97	L3	# 80	C/ 01	SC	1.4		P 17	L 50	# 82
andry, Dav	vid		Silicon Labora	atories		Vetteth, A	noop			Cisco Syster	ns, Inc.	
Comment T	Type TR	Comment	Status D			Comment	t Type	Е	Comment S	Status A		
	rrent structure o o a amendment			ualize the possil	ble future text which will			ype 2 PS s a plura		as singular o	bject while defini	tion of Type 1 PSE
Suggested	Remedy					Suggeste	dRemed	ly				
					to 802.3bc. Use the	Be Co	onsistent	t				
content instruct		s a starting poir	it, and replace	33.6 with a set	of editorial amendment	Response	e		Response S	tatus C		
Proposed F		Response	Status 7			ACCE	EPT IN F	RINCIPL	.E.			
REJEC	•	Responses				Chan	ge line 4	5 to read	l "only a Type 1	PD."		
This co	mment was WI	ITHDRAWN by	the commente	er.		C/ 30	SC :	30.2.5		P 25	L 28	# 83
						Vetteth, A	noop			Cisco Syster	ns, Inc.	
						Comment	t Type	ER	Comment S	Status A		
The inte	ne intent is to move this material over to C79 as the commenter points out.	a factor a suit			ority ottril				ملغه مالنطاب البيانية مناح مراجع			
	e Editor-in-Chief for 802.3at and the Editor-in-Chief for 802.3bc are encouraged to			oints out.						amed "aDLLPDF	PowerPriority" while th	
The Ed	litor-in-Chief for	r 802.3at and th	ne Editor-in-Chi	ief for 802.3bc a	are encouraged to	mirro	red value	e is called	d "aDLLPowerP		amed "aDLLPDF	PowerPhonity" while th
The Ed	litor-in-Chief for e a set of editor	r 802.3at and th rial instructions	ne Editor-in-Chi that can be pre	·	are encouraged to	mirro Suggeste	red value dRemed	e is called ly	d "aDLLPowerP	riority"		
The Ed produce conside	litor-in-Chief for e a set of editor eration when dis	r 802.3at and th rial instructions	ne Editor-in-Chi that can be pre omment.	ief for 802.3bc a esented to the F	are encouraged to P802.3at TF for	mirro Suggeste	red value <i>dRemed</i> r use PD	e is called ly	d "aDLLPowerP	riority"		ss also. Do a global
The Ed produce conside	litor-in-Chief for e a set of editor eration when dis SC 33.6.5	r 802.3at and th rial instructions	ne Editor-in-Chi that can be pre omment. P 100	ief for 802.3bc a esented to the F <i>L</i> 30	are encouraged to	mirro <i>Suggeste</i> Eithe	red value <i>dRemed</i> r use PD ge	e is called ly	d "aDLLPowerP	riority" Do the same f		
The Ed produce conside	litor-in-Chief for e a set of editor eration when dis SC 33.6.5	r 802.3at and th rial instructions scussing this c	ne Editor-in-Chi that can be pre omment. P100 Silicon Labora	ief for 802.3bc a esented to the F <i>L</i> 30	are encouraged to P802.3at TF for	mirro Suggeste Eithe chang Response	red value <i>dRemed</i> r use PD ge e	e is called ly	d "aDLLPowerP PD from both. D <i>Response</i> S	riority" Do the same f		
The Ed produce conside 33 ndry, Dav	litor-in-Chief for e a set of editor eration when dis SC 33.6.5 vid <i>Type</i> TR	r 802.3at and th rial instructions scussing this co Comment	ne Editor-in-Chi that can be pre omment. P100 Silicon Labora Status A	ief for 802.3bc a esented to the F <i>L</i> 30 atories	are encouraged to P802.3at TF for # <u>81</u> 16	mirro Suggeste Eithe chang Response ACCE	red value dRemed r use PD ge e EPT IN F	e is called ly or drop I PRINCIPL	d "aDLLPowerP PD from both. C <i>Response S</i> .E.	riority" Do the same f <i>tatus</i> C		
The Ed produce conside 33 ndry, Dav omment T There is	litor-in-Chief for e a set of editor eration when dis SC 33.6.5 vid <i>Type</i> TR s a normative re	r 802.3at and th rial instructions scussing this co <i>Comment</i> requirement her	ne Editor-in-Chi that can be pre omment. P100 Silicon Labora Status A	ief for 802.3bc a esented to the F <i>L</i> 30 atories	are encouraged to P802.3at TF for # 81	mirro Suggeste Eithe chang Response ACCE	red value dRemed r use PD ge e EPT IN F	e is called ly or drop I PRINCIPL	d "aDLLPowerP PD from both. D <i>Response</i> S	riority" Do the same f <i>tatus</i> C		
The Ed produce conside 33 ndry, Dav omment 7 There is PSE do	litor-in-Chief for e a set of editor eration when dis SC 33.6.5 vid Type TR s a normative ro pesn't even imp	r 802.3at and th rial instructions scussing this co <i>Comment</i> requirement her	ne Editor-in-Chi that can be pre omment. P100 Silicon Labora Status A	ief for 802.3bc a esented to the F <i>L</i> 30 atories	are encouraged to P802.3at TF for # <u>81</u> 16	mirro Suggeste Eithe chang Response ACCE	red value dRemed r use PD ge EPT IN F EPT IN F	e is called ly or drop I PRINCIPL	d "aDLLPowerP PD from both. C <i>Response S</i> .E.	riority" Do the same f <i>tatus</i> C		
The Ed produce conside 33 ndry, Dav omment T There is PSE do	litor-in-Chief for e a set of editor eration when dis SC 33.6.5 vid Type TR s a normative ro besn't even imp Remedy	r 802.3at and th rial instructions scussing this co <i>Comment</i> requirement her blement DLL?	ne Editor-in-Chi that can be pro- omment. P100 Silicon Labora Status A re for a Type 1	ief for 802.3bc a esented to the F <i>L</i> 30 atories PSE to send LL	# 81 16 DPDUs. What if the	mirro Suggeste Eithe chang Response ACCE	red value dRemed r use PD ge EPT IN F ove 'PD' SC :	e is called ly or drop I PRINCIPL from aDL	d "aDLLPowerP PD from both. C <i>Response S</i> .E. .LPDPowerPrior	riority" Do the same f <i>tatus</i> C rity.	for PD object clas	ss also. Do a global
The Ed produce conside / 33 andry, Dav omment 7 There is PSE do uggested Change	litor-in-Chief for e a set of editor eration when dis SC 33.6.5 vid Type TR s a normative ro besn't even imp Remedy	r 802.3at and th rial instructions scussing this co <i>Comment</i> requirement her blement DLL? 1 PSE shall se	ne Editor-in-Chi that can be pro- omment. P100 Silicon Labora Status A re for a Type 1	ief for 802.3bc a esented to the F <i>L</i> 30 atories PSE to send LL	are encouraged to P802.3at TF for # <u>81</u> 16	Mirro Suggeste Eithe chang Response ACCE	red value dRemed r use PD ge EPT IN F ove 'PD' SC :	e is called ly or drop I PRINCIPL from aDL	d "aDLLPowerP PD from both. C <i>Response S</i> .E. .LPDPowerPrior	riority" Do the same f <i>itatus</i> C rity. P25 Cisco Syster	for PD object clas	ss also. Do a global
The Ed produce conside 33 ndry, Dav omment 7 There is PSE do uggested Change Layer c	litor-in-Chief for e a set of editor eration when dis SC 33.6.5 vid Type TR s a normative ro besn't even imp Remedy e from "A Type	r 802.3at and th rial instructions scussing this co <i>Comment</i> requirement her blement DLL? 1 PSE shall se	ne Editor-in-Chi that can be pre- omment. P100 Silicon Labora Status A re for a Type 1 end" to "A Typ	ief for 802.3bc a esented to the F <i>L</i> 30 atories PSE to send LL	# 81 16 DPDUs. What if the	mirro Suggeste Eithe chang ACCE ACCE C/ 30 Vetteth, A Comment aDLL	red value dRemed r use PD ge EPT IN F SC : noop t Type PDPowe	e is called by PRINCIPL from aDL 30.2.5 ER erPriority a	d "aDLLPowerP PD from both. D <i>Response S</i> .E. .LPDPowerPrior <i>Comment S</i> and aMirroredD	riority" Do the same f <i>tatus</i> C rity. P25 Cisco Syster Status A	for PD object clas <i>L</i> 44 ns, Inc.	ss also. Do a global
The Ed produce conside 33 ndry, Dav omment 7 There is PSE do uggested Change Layer c	litor-in-Chief for e a set of editor eration when dis SC 33.6.5 vid Type TR s a normative ro besn't even imp Remedy e from "A Type	r 802.3at and th rial instructions scussing this co <i>Comment</i> requirement her olement DLL? 1 PSE shall se nall send" <i>Response</i> 3	ne Editor-in-Chi that can be pre- omment. P100 Silicon Labora Status A re for a Type 1 end" to "A Typ	ief for 802.3bc a esented to the F <i>L</i> 30 atories PSE to send LL	# 81 16 DPDUs. What if the	Mirro Suggeste Eithe chang ACCE ACCE C/ 30 Vetteth, A Comment aDLL Class	red value dRemed r use PD ge EPT IN F ove 'PD' SC : noop t Type PDPowe ification	e is called b or drop I PRINCIPL from aDL 30.2.5 ER erPriority a Package	d "aDLLPowerP PD from both. D <i>Response S</i> .E. .LPDPowerPrior <i>Comment S</i> and aMirroredD	riority" Do the same f <i>tatus</i> C rity. P25 Cisco Syster Status A	for PD object clas <i>L</i> 44 ns, Inc.	ss also. Do a global # <u>84</u>
The Ed produce conside 33 ndry, Dav omment 7 There is PSE do uggested/ Change Layer c esponse ACCEF	litor-in-Chief for e a set of editor eration when dis SC 33.6.5 vid Type TR s a normative ro besn't even imp Remedy e from "A Type classification sh PT IN PRINCIPI	r 802.3at and th rial instructions scussing this co <i>Comment</i> requirement her olement DLL? 1 PSE shall se nall send" <i>Response</i> 3	ne Editor-in-Chi that can be pre- omment. P100 Silicon Labora Status A re for a Type 1 end" to "A Typ	ief for 802.3bc a esented to the F <i>L</i> 30 atories PSE to send LL	# 81 16 DPDUs. What if the	Mirro Suggeste Eithe chang Response ACCE C/ 30 Vetteth, A Comment aDLL Class Suggeste	red value dRemed r use PD ge EPT IN F SC : anoop t Type PDPowe ification dRemed	e is called b or drop I PRINCIPL from aDL 30.2.5 ER erPriority a Package	d "aDLLPowerP PD from both. D <i>Response S</i> .E. .LPDPowerPrior <i>Comment S</i> and aMirroredD	riority" Do the same f <i>tatus</i> C rity. P25 Cisco Syster Status A	for PD object clas <i>L</i> 44 ns, Inc.	ss also. Do a global # <u>84</u>
The Ed produce conside / 33 andry, Dav omment 7 There is PSE do uggested Change Layer c esponse	litor-in-Chief for e a set of editor eration when dis SC 33.6.5 vid Type TR s a normative ro besn't even imp Remedy e from "A Type classification sh PT IN PRINCIPI	r 802.3at and th rial instructions scussing this co <i>Comment</i> requirement her olement DLL? 1 PSE shall se nall send" <i>Response</i> 3	ne Editor-in-Chi that can be pre- omment. P100 Silicon Labora Status A re for a Type 1 end" to "A Typ	ief for 802.3bc a esented to the F <i>L</i> 30 atories PSE to send LL	# 81 16 DPDUs. What if the	Mirro Suggeste Eithe chang Response ACCE C/ 30 Vetteth, A Comment aDLL Class Suggeste	red value dRemed r use PD ge EPT IN F ove 'PD' SC : noop t Type PDPowe ification	e is called b or drop I PRINCIPL from aDL 30.2.5 ER erPriority a Package	d "aDLLPowerP PD from both. D <i>Response S</i> .E. .LPDPowerPrior <i>Comment S</i> and aMirroredD	riority" Do the same f <i>tatus</i> C rity. P25 Cisco Syster Status A	for PD object clas <i>L</i> 44 ns, Inc.	ss also. Do a global # <u>84</u>
The Ed produce conside / 33 andry, Dav omment 7 There is PSE do uggested/ Change Layer c esponse ACCEF	litor-in-Chief for e a set of editor eration when dis SC 33.6.5 vid Type TR s a normative ro besn't even imp Remedy e from "A Type classification sh PT IN PRINCIPI	r 802.3at and th rial instructions scussing this co <i>Comment</i> requirement her olement DLL? 1 PSE shall se nall send" <i>Response</i> 3	ne Editor-in-Chi that can be pre- omment. P100 Silicon Labora Status A re for a Type 1 end" to "A Typ	ief for 802.3bc a esented to the F <i>L</i> 30 atories PSE to send LL	# 81 16 DPDUs. What if the	Mirro Suggeste Eithe chang Response ACCE C/ 30 Vetteth, A Comment aDLL Class Suggeste	red value dRemed r use PD ge EPT IN F ove 'PD' SC : noop t Type PDPowe iffication dRemed ect this	e is called b or drop I PRINCIPL from aDL 30.2.5 ER erPriority a Package	d "aDLLPowerP PD from both. D <i>Response S</i> .E. .LPDPowerPrior <i>Comment S</i> and aMirroredD	riority" Do the same f <i>tatus</i> C rity. P25 Cisco Syster Status A DLLPowerPric	for PD object clas <i>L</i> 44 ns, Inc.	ss also. Do a global # <u>84</u>

C/ 30 SC 30.2.5	5 P 26	L 26	# 85	CI 33 SC	33.2.4	P 50	L 37	# 88
Vetteth, Anoop	Cisco Systems	s, Inc.		Vetteth, Anoop		Cisco Systems	, Inc.	
Comment Type ER	Comment Status A		254	Comment Type	TR	Comment Status A		
aPDReducedOpera	ationPowerValue does not belong	to any package	l i i i i i i i i i i i i i i i i i i i			pplied" is used only with legac		
SuggestedRemedy						sed with new definition for inrus s begun steady state operation		
this attribute and the	d defines how to use this attribute e corresponding attribute definitio attribute belongs to.			operating be new inrush o "power_app	yond the F definition a lied" is ass	POWER_UP requirements of 3 lso. Moreover all the timers on serted. Per the SM on page 50,	3.2.9.6". All the page 52 are ini the PSE can re	se should apply for tialized when each the POWER_C
Response	Response Status C				•	er_applied" is not asserted. Thi	s is most certai	nly a bug.
ACCEPT IN PRINC	CIPLE.			SuggestedReme	-			
OBE 254				in current lin	niting state	* "power_applied" on page46 : ' e and is operating beyond"; PARAMETERS to: [(tinrush_tim	Change the trai	nsition condition from
C/ 30 SC 30.2.5	5 P 26	L 26	# 86			power_applied * tpon_timer_nc		
Vetteth, Anoop	Cisco Systems	s, Inc.				from POWER_UP to POWER		
Comment Type TR	Comment Status A					rush_timer_done] * power_app nge the transition condition from		
aPDModelNumber i	is useless unless it is defined and	l unique		tinrush_time	r_done*[le	gacy_powerup + !power_applie		
SuggestedRemedy				_	ing definiti	on from page 45		
Remove this attribu	ite and its attribute definition on pa	age 32		Response		Response Status C		
Response	Response Status C			ACCEPT IN	PRINCIPL	_E.		
, ACCEPT.						"power_applied" on page46 : '		
				in current lin	hiting state	and is operating beyond"; PARAMETERS to: [(tinrush_tim	Change the trai	nsition condition from
CI 33 SC 33.2.4		L34	# 87			power_applied * tpon_timer_nd		
Vetteth, Anoop	Cisco Systems	s, Inc.		-	_ <u>-</u> -			- ,-
Comment Type TR	Comment Status A		pics			condition from POWER_UP to one * legacy powerup) + tinrus		
	f ted_timer_done should be "Don er-on for any port under normal op		—			* (PSE_TYPE = 1);		h
	ironically can never happen). Th			Change the	transition	condition from POWER_UP to		V to:
	_EVAL to POWER_DENIED will b		power will always be	tinrush_time	r_done*[le	gacy_powerup + !power_applie ion from page 45	ed + (lport >= lir)	nrush)]; Remove
SuggestedRemedy				_	U U			
Add to the definition ted_timer_done"	n of ted_timer on page 48: "The d	efault state of th	is timer is	Instruct the	editor to ad	djust the PICs to match these c	hanges.	
Response	Response Status C							
	·							

ACCEPT.

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

Comment ID # 88

Comment Type E Comment Status A Comment Type T Comment Status A The term "as scon as" sonds too restrictive SuggestedRemady The parameter definition for line item 12 is not correct. This is not the continuou power. SuggestedRemady Response Response Status C ACCEPT. Comment Type T Comment Type The parameter definition for line item 12 is not correct. This is not the continuou power. Valuet, Anoop Clics Systems, Inc. Comment Type T Comment Type Comment Status A Co	
SuggestedRemedy Replace with "after" SuggestedRemedy Change the parameter definition to "Output power capability in POWER_ON size consistent with line item 5. Also change the heading for section 33.2.9.11 to "Ou capability in POWER_ON size" C1 33 SC 33.2.9 P60 L13 # 90 C1 42 Cisco Systems, Inc. Comment Type T Comment Status A pics Comment Type T Comment Status A pics Change the parameter definition of table 33-11, item 12 to "Output power capability" SuggestedRemedy Include definition of Vport in section 1.4. Similarly iport is used in multiple locations but defined in section 32.9.7. Include definition of port also in section 1.4. Change the parameter definition of table 33-11, item 12 to "Output power capability" C1 33 SC 33.2.9 P60 L47 # E ACCEPT IN PRINCIPLE. Comment Type TR Comment Type TR Add Vport definition to section 1.4: 1.4.x lport: the total power pair current going into the PI. (See IEEE 802.3, Clause 33.) Class Systems, Inc. SuggestedRemedy Response Response Status C Comment Type TR Comment Status A power. Popure. Response Status C Add Vport definition to section 1.4: 1.4.x lport: the total power pair current going into the PI. (See IEEE 802.3, Clause 33.) EEE 802.3, Clause 33.) P60 L47	<i>pi</i> o output
Response Response Status C ACCEPT. Cl 33 SC 33.2.9 P60 L 13 # 90 // 33 SC 33.2.9 P60 L 13 # 90 // deterth, Anoop Cisco Systems, Inc. Change the parameter definition of "Output power capability in POWER_ON state" Comment Type T Comment Status A ACCEPT IN PRINCIPLE. SuggestedRemedy Include definition of Yopt in section 1.4. Similarly Iport also in section 1.4. Section: Response Response Status C Carment Type TR Comment Status A Add Vport definition to section 1.4: 1.4.x Iport: the total power pair. (See IEEE 802.3, Clause 33.) Clause 33.) Clause 33.) Comment Type TR Comment Status A Class SC 33.2.9 P60 L47 # E Add Vport definition to section 1.4: Section 33.2.9.1. Include definition of vport which is defined as the instantenous power at the PSE PI. Port_PD in the PD section is used as the in PD port. Carment Type TR Comment Type TP Port. Comment Type TR Comment Status C Add Vport definition of vport instate status A poics Response Status C Sug	
C1 33 SC 33.2.9 P60 L13 # 90 //eteth, Anoop Cisco Systems, Inc. Cisco Systems, Inc. ACCEPT IN PRINCIPLE. Comment Type T Comment Status A pics SuggestedRemedy Include definition of Vport in section 1.4. Similarly Iport is used in multiple locations but defined in section 33.2.9.7. Include definition of Iport also in section 1.4. Change 33.2.9.11 title to "POWER_ON state output power capability" Response Response Status C Comment Type TR Comment Status A Add Vport definition to section 1.4: 1.4.x Vport: the total power pair. (See IEEE 802.3, Clause 33.) Clause 33.) C1 33 SC 33.2.9 P60 L29 # 91 1.4.x lport: the total power pair. Cisco Systems, Inc. SuggestedRemedy Response Cisco Systems, Inc. SuggestedRemedy Comment Type TR Comment Status A 1.4.x lport: the total power pair. Cisco Systems, Inc. SuggestedRemedy Carso Systems, Inc. SuggestedRemedy	
Comment Type T Comment Status A pics Vport is defined in this section but is used prior to this section without referencing this section. pics SuggestedRemedy SuggestedRemedy Include definition of Vport in section 1.4. Single the parameter definition of status A Response Response Status C Classe 33.2.9.11 title to "POWER_ON state output power capability" Cl 33 SC 33.2.9 P60 L47 # [S] Add Vport definition to section 1.4: Comment Type TR Comment Status A 1.4.x lport: the total power pair. (See IEEE 802.3, Clause 33.) SC 33.2.9 P60 L47 # [S] Cl 33 SC 33.2.9 P60 L47 # [S] Vert eth, Anoop Cisco Systems, Inc. Comment Type TR Comment Status A Vetteth, Anoop L29 # [s] Vetteth, Anoop Cisco Systems, Inc. SuggestedRemedy Comment Type TR Comment Status A Vetteth, Anoop L29 # [s] [s] Vetteth, Anoop Cisco Systems, Inc. Response Response Status C <	
SuggestedRemedy Include definition of Vport in section 1.4. Similarly lport is used in multiple locations but defined in section 33.2.9.7. Include definition of lport also in section 1.4. Response Response Status C ACCEPT IN PRINCIPLE. Add Vport definition to section 1.4: 1.4.x Vport: the voltage at the PI measured between any conductor of one power pair and any conductor of the other power pair. (See IEEE 802.3, Clause 33.) 1.4.x lport: the total power pair current going into the PI. (See IEEE 802.3, Clause 33.) Cl 33 SC 33.2.9 P60 L29 # Sequence Tin Principle. Comment Type TR Comment Status A Certert, Anoop Cisco Systems, Inc. Comment Type TR Comment Type TR Comment Status A SuggestedRemedy Response Response Response in the other onvertable but in order to prevent references like lport_max min; it would be better to change the symbol to "con" Response Response Status C Response Status C Response Status	ity in
Include definition of vport in section 1.4. Similarly ipor is used in multiple locations but defined in section 33.2.9.7. Include definition of lport also in section 1.4 Response Response Status C ACCEPT IN PRINCIPLE. Add Vport definition to section 1.4: 1.4.x Vport: the voltage at the PI measured between any conductor of one power pair and any conductor of the other power pair. (See IEEE 802.3, Clause 33.) I.4.x Vport: the voltage at the PI measured between any conductor of one power pair and any conductor of the other power pair. (See IEEE 802.3, Clause 33.) Replace Pport with Pcon. Change all references of Pport with Pcon. Pport is used as the instantenous power at the PSE PI. Pport_PD in the PD section is used as the instantenous power at the PSE PI. Pport_PD in the PD section is used as the instantenous power at the PSE PI. Pport_PD in the PD section is used as the instantenous power at the PSE PI. Pport_PD in the PD section is used as the instantenous power at the PSE PI. Pport_PD in the PD section is used as the instantenous power at the PSE PI. Pport_PD in the PD section is used as the instantenous power at the PSE PI. Pport_PD in the PD section is used as the instantenous power at the PSE PI. Pport_PD in the PD section is used as the instantenous power at the PSE PI. Pport_PD in the PD section is used as the instantenous power at the PSE PI. Pport_PD in the PD section of Pport with Pcon. Change all references of Pport to Pcon. Comment Type TR Comment Status A pics SuggestedRemedy Replace Pport with Pcon. Change all references of Pport in this section defines it as "the instantenous power at the PSE PI." Removing this might be too controvertial but in ord	
ACCEPT IN PRINCIPLE. Vport definition to section 1.4: 1.4.x Vport: the voltage at the PI measured between any conductor of one power pair and any conductor of the other power pair. (See IEEE 802.3, Clause 33.) Vport and Iport are used as instantenous values. Pport here is the max power of SuggestedRemedy 1.4.x Iport: the total power pair current going into the PI. (See IEEE 802.3, Clause 33.) Replace Pport with Pcon. Change all references of Pport which is defined as the instantenous power at the PSE PI. Pport_PD in the PD section is used as the in PD power. Cl 33 SC 33.2.9 P60 L29 Image: Pport with Pcon. Change all references of Pport which is defined as the instantenous power at the PSE PI. Pport_PD in the PD section is used as the in PD power. Comment Type TR Comment Status A pics The variable "Iport_max" is not used anywhere. pics SuggestedRemedy Removing this might be too controvertial but in order to prevent references like Iport_max pics Response Response Status C Netter the editor to adjust the PICs to match these changes. Response Response Status C Netter the editor to adjust the PICs to match these changes.	
1.4.x Vport the voltage at the PI measured between any conductor of one power pair and any conductor of the other power pair. (See IEEE 802.3, Clause 33.) Replace Pport with Pcon. Change all references of Pport with Pcon. Pport is used as the instantenous power at the PSE PI. Pport_PD in the PD section is used as the instantenous power at the PSE PI. Pport_PD in the PD section is used as the instantenous power at the PSE PI. Pport_PD in the PD section is used as the instantenous power at the PSE PI. Pport_PD in the PD section is used as the instantenous power at the PSE PI. Pport_PD in the PD section is used as the instantenous power at the PSE PI. Pport_PD in the PD section is used as the instantenous power at the PSE PI. Pport_PD in the PD section is used as the instantenous power at the PSE PI. Pport_PD in the PD section is used as the instantenous power at the PSE PI. Pport_PD in the PD section is used as the instantenous power at the PSE PI. Pport_PD in the PD section is used as the instantenous power at the PSE PI. Pport_PD in the PD section is used as the instantenous power at the PSE PI. Pport_PD in the PD section is used as the instantenous power at the PSE PI. Pport_PD in the PD section is used as the instantenous power at the PSE PI. Pport_PD in the PD section is used as the instantenous power at the PSE PI. Pport_PD in the PD section is used as the instantenous power at the PSE PI. Pport_PD in the PD section is used as the instantenous power at the PSE PI. Pport_PD in the PD section is used as the instantenous power at the PSE PI. Pport_PD in the PD section is used as the instantenous power at the PSE PI. Comment Type TR Comment Status A pics SuggestedRemedy Removing this might be too controvertial but in order to prevent references like lport_max Response Response Status C Re	<i>pic</i> pability
Cl 33 SC 33.2.9 P60 L29 # 91 Vetteth, Anoop Cisco Systems, Inc. Cisco Systems, Inc. ACCEPT IN PRINCIPLE. Comment Type TR Comment Status A pics The variable "lport_max" is not used anywhere. pics Replace Pport with Pcon. Change all references of Pport to Pcon. SuggestedRemedy Removing this might be too controvertial but in order to prevent references like lport_max prot is used only is section 33.2.9.11. Include a definition of Pport in this section defines it as "the instantenous power at the PSE PI." Response Response Status C	
The variable "lport_max" is not used anywhere. Pport is used only is section 33.2.9.11. Include a definition of Pport in this section defines it as "the instantenous power at the PSE PI." SuggestedRemedy Removing this might be too controvertial but in order to prevent references like lport_max min; it would be better to change the symbol to "lcon" Instruct the editor to adjust the PICs to match these changes. Response Response Status C	
SuggestedRemedy SuggestedRemedy defines it as "the instantenous power at the PSE PI." Removing this might be too controvertial but in order to prevent references like lport_max min; it would be better to change the symbol to "Icon" Instruct the editor to adjust the PICs to match these changes. Response Response Status C	
min; it would be better to change the symbol to "Icon" Instruct the editor to adjust the PICs to match these changes. Response Response Status	which
ACCEPT IN PRINCIPLE.	
Iport_max is used in several places.	
Change the symbol to "Icon." Instruct the editor to adjust the PICs to match these changes.	

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 # 93

Page 26 of 86 3/12/2009 2:49:18 PM

Cisco Systems Comment Status A Imin leads to references lik Response Status C			pics	after [Suggestee	<i>Type</i> 75 line 29 DLL is cor		Comment Sta	e that the "p	ose_power_type	PD State Mach
Response Status C								•	by the Sivi	
				Response ACCE	PT.		Response Sta	us C	e_power_type <=	= 2 class is a type 2 PSE
P63 Cisco Systems	L 10 s, Inc.	# 95		C/ 33	LL.		r D discovers a		L 47	# 98
				Comment 50ms Suggested Chang	<i>Type</i> is a numb <i>Remedy</i> ge to Tovl	per that ne	Comment Sta reds to be repla	tus A ced with a v		
P 72 Cisco Systems	L 10	# 96						-		
Comment Status A ate to DO_DETECTION st re based on voltage (for sa di_power_required will not a	tate should be: " ake of consisten affect the SM be	Vport_PD > Vres cy) ecause when	0	Vetteth, A Comment Table and n But th	noop <i>Type</i> 33-21 Ite ot by man e capabili	T m 11.5 Pe agement of ty of the P	Comment Sta or the PSE SM, entity. PSE with regard	sco Systems <i>tus</i> A DLL classifie	cation is enable	
hen in the IDLE state."	9: "A PD may or	may not present	а	Suggester Chang Add a enable Response	dRemedy ge this field new field ed DLL as	ld to "Data to Registe indicated	Link Layer Ca er 12 to indicate by the SM var	e if the PSE able pse_dl		ted powerup and
	Comment Status A h extending midway betwee perbound template Tinrush Response Status C P72 Cisco Systems Comment Status A ate to DO_DETECTION so re based on voltage (for sa di_power_required will not serted, the SM automatica Response Status C the paragraph on P73 L1 hen in the IDLE state." mented in fig33-18.png.	h extending midway between 50ms and 75 berbound template Tinrush should extend to Response Status C P72 L10 Cisco Systems, Inc. Comment Status A ate to DO_DETECTION state should be: " re based on voltage (for sake of consisten di_power_required will not affect the SM be serted, the SM automatically ends up in the Response Status C if the paragraph on P73 L19: "A PD may or hen in the IDLE state."	Comment Status A h extending midway between 50ms and 75ms. perbound template Tinrush should extend to 75ms Response Status C P72 L10 # 96 Cisco Systems, Inc. Comment Status A PD State D ate to DO_DETECTION state should be: "Vport_PD > Vrest re based on voltage (for sake of consistency) di_power_required will not affect the SM because when serted, the SM automatically ends up in the IDLE state Response Status C if the paragraph on P73 L19: "A PD may or may not present hen in the IDLE state." mented in fig33-18.png.	Comment Status A TEZ h extending midway between 50ms and 75ms. Perbound template Tinrush should extend to 75ms Response Status C P72 L10 # 96 Cisco Systems, Inc. Comment Status A PD State Diagram ate to DO_DETECTION state should be: "Vport_PD > Vreset" re based on voltage (for sake of consistency) di_power_required will not affect the SM because when serted, the SM automatically ends up in the IDLE state Response Status C if the paragraph on P73 L19: "A PD may or may not present a hen in the IDLE state." mented in fig33-18.png.	Comment Status A TEZ In extending midway between 50ms and 75ms. Vetteth, Au In extending midway between 50ms and 75ms. Comment In extending midway between 50ms and 75ms. Suggestee In extending midway between 50ms and 75ms. Suggestee Derbound template Tinrush should extend to 75ms Suggestee Response Status C C Image: P72 L 10 # 96 Image: Comment Status A PD State Diagram Comment Status A PD State Diagram Accel C/ 33 Vetteth, Au Comment Comment Status A PD State Diagram Accel C/ 33 Vetteth, Au Comment Table Comment Table Comment Table Suggestee Change Suggestee Besponse Status C Suggestee Table Suggestee Table Change Add a Enable Besponse Status C Suggestee Table Change Add a Enable Table Enable	Comment StatusATEZComment StatusATEZh extending midway between 50ms and 75ms.Vetteth, Anoopberbound template Tinrush should extend to 75msComment TypeSesponse StatusCSuggestedRemedyCisco Systems, Inc.P72L10Comment StatusAPD State Diagramate to DO_DETECTION state should be: "Vport_PD > Vreset"C/ 33SC 32re based on voltage (for sake of consistency)Vetteth, AnoopComment Typeti_power_required will not affect the SM because when serted, the SM automatically ends up in the IDLE stateSuggestedRemedy Change this fiel Add a new field enabled DLL asthe paragraph on P73 L19: "A PD may or may not present a hen in the IDLE state."SuggestedRemedy Change this fiel Add a new field enabled DLL asthe paragraph on pros L19: "A PD may or may not present a hen in the IDLE state."Response ACCEPT.nented in fig33-18.png.ACCEPT.	Comment Status A TEZ Comment Status A TEZ h extending midway between 50ms and 75ms. Comment Type ER berbound template Tinrush should extend to 75ms Sc 33.3.7.4 Response Status C Comment Type ER P72 L10 # 96 Cisco Systems, Inc. Comment Status A PD State Diagram Ate to DO_DETECTION state should be: "Vport_PD > Vreset" Comment Type T re based on voltage (for sake of consistency) Table 33-21 Item 11.5 Pe di_power_required will not affect the SM because when serted, the SM automatically ends up in the IDLE state SuggestedRemedy Response Status C SuggestedRemedy Change this field to "Data Add a new field to Registe enabled DLL as indicated Response ACCEPT. Table 33-18.png. Change this field to "Data Add a new field to Registe enabled DLL as indicated Response	Comment Status A TEZ Comment Status A TEZ h extending midway between 50ms and 75ms. Vetteth, Anoop h extending midway between 50ms and 75ms. Ci h extending midway between 50ms and 75ms. Ci	Comment Status A TEZ Comment Status A TEZ h extending midway between 50ms and 75ms. Cisco System h extending midway between 50ms and 75ms. Cisco System h extending midway between 50ms and 75ms. Cisco System h extending midway between 50ms and 75ms. Cisco System h extending midway between 50ms and 75ms. Cisco System h extending midway between 50ms and 75ms. Cisco System h extending midway between 50ms and 75ms. Cisco System h extending midway between 50ms and 75ms. Cisco System h extending midway between 50ms and 75ms. Cisco System h extending midway between 50ms and 75ms. Cisco System h extending midway between 50ms and 75ms. Cisco System h extending midway between 50ms and 75ms. Cisco System h extending midway between 50ms and 75ms. Cisco System h extending midway between 50ms and 75ms. Cisco System h extending midway between 50ms and 75ms. Cisco System h extending midway between 50ms and 75ms. Cisco System h extending midway between 50ms and 75ms. Cisco System h extending midway between 50ms and 75ms. Cisco System h e	Comment Status A TEZ In extending midway between 50ms and 75ms. TEZ h extending midway between 50ms and 75ms. Cisco Systems, Inc. h extending midway between 50ms and 75ms. Comment Type ER Comment Status A h extending midway between 50ms and 75ms. Soms is a number that needs to be replaced with a variable h extending midway between 50ms and 75ms. Comment Type ER Comment Status A h extending midway between 50ms and 75ms. Comment Type ER Comment Status A h extending midway between 50ms and 75ms. Comment Status A Soms is a number that needs to be replaced with a variable h extending midway between 50ms and 75ms. Comment Status A Soms is a number that needs to be replaced with a variable h extending midway between 50ms and 75ms. Comment Status A Comment Status A h extending midway between 50ms and 75ms. Comment Status A Comment Status A h extending midway between 50ms and 75ms. Comment Status A P18 L14 Vetteth, Anoop Cisco Systems, Inc. C C Comment Status A PD State Diagram C ACCEPT. ii power_required will not affect the SM because when serted, the SM automatically ends up in the IDLE state C <td< td=""></td<>

CI 33 SC 33.5.1	.2	P 93	L 95	# 100	C/ 33	SC :	33.6.2.1		P 98	L17	# 103
/etteth, Anoop		Cisco Systems	s, Inc.		Vetteth, A	noop		С	isco System	ns, Inc.	
Comment Type TR	Comment S	Status A			Comment	Туре	TR	Comment Sta	ntus A		
Table 33-22 item 12 class. Show the sta		fined the behav	ior when classifi	cation yields invalid	PD/PS	SE cann		ge DLL packets			not valid since the ng the PI or when PD is
SuggestedRemedy					Suggested	0.					
0			ed" to "overcurre	ent" or "Invalid Class"	00		meration				
Response	Response S	Status C			Response		meration	Response Sta			
ACCEPT IN PRINC	IPLE.						RINCIPLE	,			
Use "Invalid Class"					//OOL						
 C/ 33 SC 33.5.1	2	P 93	L95	# 101	Delete	e this en	umeration	1			
/etteth, Anoop	.2	Cisco Systems		# 101							
Comment Type T	Comment S	-	-,								uming that the L2 e stay up, perhaps to
Table 33-22. Regist	er 12 is not compr	rehensive with		onditions. Missing the ver not available fault.	allow	for exch	anges tha		to budgeting	g or do we want	
SuggestedRemedy					C/ 33	SC :	33.6.4		P100	L 7	# 104
Add them					Vetteth, A	noop		С	isco System	ns, Inc.	
Response ACCEPT IN PRINC	Response S	Status C			Comment		TR Power Prid	<i>Comment Sta</i> prity is not reserv		It is defined	22
	6 .1							Shity is not reserv		. It is defined.	
use 12.12 to indicat	e any of these cor	nditions			Suggestee		•	OLLPowerPriority	,		
CI 33 SC 33.5.1	.2	P 93	L 35	# 102	Response			Response Sta			
/etteth, Anoop		Cisco Systems	s, Inc.				RINCIPLE	,			
Comment Type T	Comment S	Status A			//OOL						
Table 33-22. It will I parameters when p			SE is using Type	e-1 or Type-2	OBE #	-					
SuggestedRemedy Add this info					to asig	gn / ovei	rride the d	efault priority of	the PD? If s	o, this should be	the ability of the PSE aDLLPDPowerPriority. to the comment
Response ACCEPT IN PRINC	Response S	Status C						- 0 -	•	U	
Use bit 12.15 to pro	wide this info.										

C/ 33 SC 33.6.6.3 P101 L 42 # 105 Vetteth, Anoop Cisco Systems, Inc. Cisco Systems, Inc.	C/ 33 SC 33.6.6.3 P102 L17 # 108 Vetteth, Anoop Cisco Systems, Inc. Cisco Systems, Inc.
Comment Type ER Comment Status A The variables are not arranged in alphabetic order like other similar sections SuggestedRemedy Fix this	Comment Type E Comment Status A PSEAllocatedPowerValue - The third sentence begins with "The PD power value is". This is not PD power value SuggestedRemedy
Response Response Status C ACCEPT IN PRINCIPLE. Arrange in alphabetical order	Change "The PD power value" to "This power value" Response Response Status C ACCEPT.
Cl 33 SC 33.6.6.3 P102 L8 # 106	C/ 33 SC 33.6.6.3 P102 L 30 # 109 Vetteth, Anoop Cisco Systems, Inc. L 30 Image: Cisco Systems, Inc. Image: Cisco Systems, Inc.
Vetteth, Anoop Cisco Systems, Inc. Comment Type ER Comment Status A PDMaxPowerValue - Does not reference equation 33-20	Comment Type ER Comment Status A 23 local_system_change - this variable definition uses locRequestedPowerValue that is not defined 23
SuggestedRemedy Append to the definition "This power value is encoded according to Equation (3320), where X is the decimal value of PDMaxPowerValue" Response Response Status C ACCEPT IN PRINCIPLE. OBE 162	SuggestedRemedy Replace locRequestedPowerValue to "allocated/requested power" Response Response Status C ACCEPT IN PRINCIPLE. OBE #230
C/ 33 SC 33.6.6.3 P102 L10 # 107 /etteth, Anoop Cisco Systems, Inc. 107	CI 33 SC 33.6.6.3 P103 L 30 # 110 Vetteth, Anoop Cisco Systems, Inc. Comment Type TR Comment Status A
Comment Type E Comment Status A PDRequestedPowerValue - The third sentence begins with "The PD power value is". This is not PD power value	Table 33-28. The values mentioned under the aMirroredDLLPowerType attribute for PSE and PD have been swapped. The PSE object should see the values corresponding to the PD power type while the PD object should see values corresponding to the PSE power type.
SuggestedRemedy Change "The PD power value" to "This power value"	SuggestedRemedy Fix this. Move the enumerations 10 and 00 from PSE to PD. Move enumerations 11 and 01 from PD to PSE
Response Response Status C	

Cl 33 SC 33.6.6 P106 L9 # 111 Vetteth, Anoop Cisco Systems, Inc. 111	C/ 33 SC 33.8.3.2 P111 L11 # 113 Vetteth, Anoop Cisco Systems, Inc.
Comment Type TR Comment Status A The variable pse_power_type is not defined.	Comment Type TR Comment Status A Item PDCL2 - the status should be PDT2:M
SuggestedRemedy A control variable output by the PD state diagram (Figure 33-18) to indicate the type of PSE by which it is being powered Response Response Status C	SuggestedRemedy Fix this Response Response Status C ACCEPT.
ACCEPT. C/ 33 SC 33.6.6 P106 L23 Vetteth, Anoop Cisco Systems, Inc.	C/ 33 SC 33.8.3.2 P111 L14 # 114 Vetteth, Anoop Cisco Systems, Inc. 114
Comment Type TR Comment Status A The PD updates it maximum permissible power draw in the PD POWER ALLOCATION state. This happens when the new value is lesser than the present value or the PSE allocated value. There is a cornercase bug if the PSE and PD settle at two different values, with PSE allocated value being greater than the PD requested value. For example assume that the steady state is PSE allocation is 20W and PD requested is 15W. The pD wants to increase its request to 19W and simultaneously PSE wants to reduse its allocation to 15W. When this happens, the PD should wait until its request is approved which it is not doing currently.	Comment Type TR Comment Status A Item DLLC - the status should be PDT2:M SuggestedRemedy Fix this Response Response Status C ACCEPT. Cl 33 SC 33.8.3.2 P114 L13 # 115
SuggestedRemedy The PD should be allowed to increase its max power draw only when the PSE and PD are in sync with regard to the mirrored values. The proposed change is shown in attached pdf avetteth_pdsm.pdf. Append to Section 33.6.7.2 "When the PD notices that the MirroredPDRequestedPowerValueEcho is equal to PDRequestedPowerValueEcho, then the PD can assume that MirroredPSEAllocatedPowerValue is the power that the PSE has presently allocated to the PD. Based on this the PD updates its max permissible power draw by entering the PD_POWER_REALLOCATION_2 state."	Vetteth, Anoop Cisco Systems, Inc. Comment Type TR Comment Status Item PSE19 - The spec requires only a minimum of 2 measurements SuggestedRemedy Change to Atleast two measurements with Vdetect Response Response Status ACCEPT IN PRINCIPLE.
Response Response Status C ACCEPT IN PRINCIPLE.	Change to 'at least two measurements'

Cl 33 SC 33.8.3.2 P114 L13 # 116	Cl 33 SC 33.8.3.2 P115 L11 # 118
Vetteth, Anoop Cisco Systems, Inc.	Vetteth, Anoop Cisco Systems, Inc.
Comment Type TR Comment Status A	Comment Type TR Comment Status A TEZ
item PSE19 - The spec does not require 1V difference between consecutive measurements if there are more than 2 measurements	Item PSE35 is incorrect. We have the option to treat this condition as Class 0 or go to Idle state
SuggestedRemedy Remove consecutive	SuggestedRemedy Fix this
Response Response Status C	Response Response Status C
ACCEPT IN PRINCIPLE.	ACCEPT IN PRINCIPLE.
From: At least 1 V difference between consecutive measurements	See 270
To:	Cl 33 SC 33.8.3.2 P115 L37 # 119
At least 1 V difference between any two measurements in the range of Vdetect	Vetteth, Anoop Cisco Systems, Inc.
Cl 33 SC 33.8.3.2 P114 L31 # 117	Comment Type TR Comment Status A TEZ Item PSE46 is incorrect. This condition will cause the PSE to go into IDLE state TEZ
Vetteth, Anoop Cisco Systems, Inc.	SuggestedRemedy
Comment Type TR Comment Status A EZ	Fix this
Item PSE24, PSE25, PSE26 and PSE27 use just "classification" to describe physical layer classification	Response Response Status C ACCEPT IN PRINCIPLE.
SuggestedRemedy	
Change classification to "physical layer classification"	See 272
Response Response Status C ACCEPT IN PRINCIPLE.	C/ 33 SC 33.8.3.10 P127 L1 # 120 Vetteth, Anoop Cisco Systems, Inc. Cisco Systems, Inc. Cisco Systems, Inc.
DCC04 is second with respect to 4 Event Division Leven slope Gestion 0 Event Division	
PSE24 is generic with respect to 1-Event Physical Layer classification, 2-Event Physical Layer classification, and Data Link Layer Classification. No change needed.	Comment Type TR Comment Status A TEZ Item DLL4, DLL6, DLL8, DLL12 and DLL15 are incorrect and have not been updated for a
PSE25, PSE26, and PSE27 should have "classification" changed to "Physical Layer	long time
classification."	SuggestedRemedy Fix them
	Response Response Status C
	ACCEPT IN PRINCIPLE.
	See 312, 313, 314, 318

CI 33	SC 33.6.6.6	P105	L1	# 121		C/ 25	SC	25.4.4a.1	P19	L 41	# 123	
Vetteth, A	noop	Cisco System	ıs, Inc.			Schindler,	Freder	ick	Cisco System	is, Inc.		
Commen	tType TR	Comment Status A			222	Comment	Туре	Е	Comment Status A			ΕZ
		ns "examine_request" and "ps				p19, l4	41. A sr	mall negativ	ve sign is sometimes missed	d.		
when chan	there is local sy be. We can com	stem change and the other is bine the two into one function.	Called when the I Moreover since	² D is requesting f examine request	or a	Suggestee	dRemed	dy				
returr	ns a new PSE po	wer value, the transition from FION state should be UCT.					mate the T/In(Va/		to remove the negative sign			
Suggeste	dRemedy					Response	•		Response Status C			
		n pse_power_review for both s				ACCE	PT.					
		W. Delete "examine_request" WER REQUEST to MIRROR				C/ 33	SC	33.2.2	P39	L 2	# 124	
		WER REQUEST to PSE POV				Schindler,	Freder	ick	Cisco System	s, Inc.		
the a	et of the PSE ba	power_review to: "This function sed on local system changes of	or change in pow	er request from the	ne ne	Comment	Type	Е	Comment Status A			
		_psesm.pdf for comprehensive		·				e definition	s are copies of what is pres	ented on p17.		
Response		Response Status C				Suggestee	dRemed	dy				
ACCI	EPT IN PRINCIP	LE.							s rather than repeating them	n or use a word p	processing feature	that
Edito	r to enact chang	es found in "avetteth_PSESM	.pdf"					finitions co				
delet	the function "ex	amine_request" P103, L54				Response			Response Status C			
						ACCE	PINH	PRINCIPLE	1.			
<i>CI</i> 25 Schindler	SC 25.4.4a. , Frederick	1 P19 Cisco System	L 41 ns, Inc.	# 122					ermine and use the best wa ults in no change to the text.		ions consistent.	
Commen	t <i>Type</i> T	Comment Status A			TEZ	C/ 33	SC	33.2.4.1	P 44	L15	# 125	
		w approach to the legacy appr	oach improves th	ie reader's		Schindler,	Freder	ick	Cisco System	is, Inc.		
	rstanding.					Comment	Туре	ER	Comment Status A			ΕZ
Show		where L = open-circuit induct	ance of the Ether	net isolation		p44, l′ Type 2		stem with	a Type 1 PSE and a Type 2	midspan may be	e constructed to po	ower
_	former and R = 1					Suggested		dv				
Response	; EPT IN PRINCIP	Response Status C				Add th	ne follov	ving note to	o the end of section 33.2.4.1			
100		LE. fit this into text flow. Also see	. 21 0			is atta	ched to	the same	ve A, PSE may need to hav link segments as a Type 2 A	Alternative B, mid	dspan PSE.	
	est the Editor to		210.					ne Type 2 A	Alternative B, midspan to suc	ccessfully compl	ete a detection cyc	cle.
	est the Editor to											
	est the Editor to					Response ACCE			Response Status C			

C/ 33 SC 33.2.4	.4 P45	L1	# 126		C/ 33	SC 33.2.4.	4 P46	L 42	# 129	
Schindler, Frederick	Cisco Syster	ns, Inc.			Schindler,	Frederick	Cisco Syste	ems, Inc.		
Comment Type TR	Comment Status A			TEZ	Comment	Type TR	Comment Status A			TEZ
p45, 1. This value is diagrams.	implementation dependent. It i	is also tested but	not set in the state	9	p46, 4 diagra		s implementation dependent.	It is also tested bu	it not set in the sta	ate
SuggestedRemedy					Suggestee	dRemedy				
	entence immediately after the va t in an implementation-depende						ntence immediately after the in an implementation-dependent			
Response	Response Status C				Response	,	Response Status C			
ACCEPT.					ACCE	PT.				
CI 33 SC 33.2.4	.4 P45	L19	# 127		C/ 33	SC 33.2.4.	4 P 47	L 9	# 130	
Schindler, Frederick	Cisco Syster	ns, Inc.			Schindler,	Frederick	Cisco Syste	ems, Inc.		
Comment Type TR	Comment Status A			TEZ	Comment	Type TR	Comment Status A			TEZ
p45, 19. This value diagrams.	is implementation dependent. It	t is also tested bu	it not set in the sta	ite	p47,9. diagra		mplementation dependent. It	is also tested but	not set in the state	Э
SuggestedRemedy					Suggestee	dRemedy				
	entence immediately after the va t in an implementation-depende						ntence immediately after the in an implementation-dependent			
Response	Response Status C				Response		Response Status C			
ACCEPT.					ACCE	PT.				
C/ 33 SC 33.2.4	.4 P46	L 20	# 128		This re	efers to variabl	e pse_skips_event2.			
Schindler, Frederick	Cisco Syster	ns, Inc.			C/ 33	SC 33.2.4.	5 P48	L 2	# 131	
Comment Type ER	Comment Status A			EZ	Schindler,	Frederick	Cisco Syste	ems, Inc.		
p46, 20. This text de	pes not cover the state where T	EST_MODE resu	It in DTE power.		Comment	Type TR	Comment Status A			TEZ
SuggestedRemedy							nges the definition from what		ces expect and co	onflicts
	end of pi_powered, TRUE sen				with th	ne definition pro	ovided in table 33-11, item 25	5.		
1 7	power is being forced on in TE	SI_MODE.			Suggestee					
Response	Response Status C				Repla	ce "detect" with	h "power," in this sentence. ⊢	lave the Editor upd	ate the related PIC	C.
ACCEPT.					Response	,	Response Status C			
					ACCE					

C/ 33 SC 33.2.4.6 Schindler, Frederick	P 48 Cisco Systems	L 31 s, Inc.	# 132		C/ 33 SC 33.2 Schindler, Frederick	2.4.6	P 49 Cisco System	L 34 ns, Inc.	# 135
Comment Type ER This text is easily confus	Comment Status A sed with PD detection.			EZ	Comment Type El p49, 34. What if a readability.		<i>t Status</i> A upports DLL is a	ttached? Fix this	<i>TE.</i> to improve PICs
SuggestedRemedy Replace "PD detection"	with "PD classification "				SuggestedRemedy				
Response ACCEPT.	Response Status C				Delete the period produce a single related PIC.				e second sentence to Editor update the
C/ 33 SC 33.2.4.6 Schindler, Frederick	P 48 Cisco Systems	L 32 s, Inc.	# 133		Response ACCEPT IN PRIN	,	Status C		
Comment Type ER p48, 32. Specifications of	Comment Status A cover compliant behavior.				Delete the period produce a single				e second sentence to
SuggestedRemedy Delete this sentence. Response ACCEPT IN PRINCIPLE	Response Status C					SE powers a Type mutual identificat mutual identificat	on is not complete.		ssign a value of '1' to gn a value '2' to the
Delete "Any class may b	be returned if an invalid class	ification signatu	ire is detected."				10.		
Cl 33 SC 33.2.4.6 Schindler, Frederick	P 49 Cisco Systems	L 1 s, Inc.	# 134						
Comment Type ER p49, 1. Provide text sho	Comment Status A wing what this function does.			EZ					
SuggestedRemedy Add the following text af This function produce th	ter the existing text, e classification mark voltage								
Response ACCEPT.	Response Status C								

Text states " Iport is Tmpdo" The state diagrams to removed. It does not The PD spec. on pag SuggestedRemedy Interoperability requir hold time minimum. Replace p67, line 14, " Iminmax continuo Response ACCEPT IN PRINCIF Replace p67, line 14,	" Iminmax for at least Tmps	line 14 do not ma max for at least T d for at least Tmp en present for at le 10 mA for 75 ms. holding current fo s every Tmps+Tm mps + Tmpdo,"	Tmps every Tmps odo before power least Tmps. or at least the PSE npdo," with	is	Suggested Replac Response ACCEI Replac "Meas initial t with	Type E 2. Use variables. <i>Remedy</i> e "6 ms" with TC PT IN PRINCIPLE	Response Status C		√Class min to ignore
p52, 12. The state dia Text states " Iport is Tmpdo" The state diagrams to removed. It does not The PD spec. on pag SuggestedRemedy Interoperability requir hold time minimum. Replace p67, line 14, " Iminmax continuo Response ACCEPT IN PRINCIF Replace p67, line 14,	gram and text of 33.2.11.1.2, greater than or equal to Imin sts that the signature is invali est that a valid signal has bee e 81, line 41 requires at least es that a PD draw at least the " Iminmax for at least Tmps isly for at least Tmps every The <i>Response Status</i> C LE. " Iminmax for at least Tmps	max for at least T d for at least Tmp en present for at le 10 mA for 75 ms. holding current fo s every Tmps+Tm mps + Tmpdo,"	Tmps every Tmps odo before power least Tmps. or at least the PSE npdo," with	s+ is	p57, 4: Suggested Replac Response ACCEI Replac "Measu initial t with	2. Use variables. <i>Remedy</i> e "6 ms" with TC PT IN PRINCIPLE we urement of IClass	LE1. Response Status C E.	n the application of N	√Class min to ignore
Tmpdo" The state diagrams to removed. It does not The PD spec. on pag SuggestedRemedy Interoperability requir hold time minimum. Replace p67, line 14, " Iminmax continuo Response ACCEPT IN PRINCIF Replace p67, line 14,	sts that the signature is invali est that a valid signal has bee a 81, line 41 requires at least es that a PD draw at least the " Iminmax for at least Tmps usly for at least Tmps every T <i>Response Status</i> C LE. " Iminmax for at least Tmps	d for at least Tmp en present for at le 10 mA for 75 ms. holding current fo every Tmps+Tm mps + Tmpdo,"	odo before power least Tmps. or at least the PSE	is	Replac <i>Response</i> ACCEI Replac "Meas initial t with	e "6 ms" with TC PT IN PRINCIPLE e urement of IClass	Response Status C E.	n the application of V	√Class min to ignore
removed. It does not The PD spec. on pag SuggestedRemedy Interoperability requir hold time minimum. Replace p67, line 14, " Iminmax continuo Response ACCEPT IN PRINCIF Replace p67, line 14,	est that a valid signal has bee e 81, line 41 requires at least es that a PD draw at least the " Iminmax for at least Tmps isly for at least Tmps every T <i>Response Status</i> C LE. " Iminmax for at least Tmps	en present for at it 10 mA for 75 ms. holding current fo every Tmps+Tm mps + Tmpdo,"	least Tmps. or at least the PSI npdo," with		Response ACCEI Replac "Measu initial t with	PT IN PRINCIPLE	Response Status C E.	n the application of V	√Class min to ignore
SuggestedRemedy Interoperability requir hold time minimum. Replace p67, line 14, " Iminmax continuo Response ACCEPT IN PRINCIF Replace p67, line 14,	es that a PD draw at least the " Iminmax for at least Tmps Isly for at least Tmps every T <i>Response Status</i> C LE. " Iminmax for at least Tmps	holding current fo every Tmps+Tm mps + Tmpdo,"	or at least the PSI	E	Replac "Meas initial t with	e urement of IClass		n the application of V	√Class min to ignore
hold time minimum. Replace p67, line 14, " Iminmax continuo Response ACCEPT IN PRINCIF Replace p67, line 14,	" Iminmax for at least Tmps Isly for at least Tmps every T <i>Response Status</i> C LE. " Iminmax for at least Tmps	s every Tmps+Tm mps + Tmpdo,"	npdo," with	E	"Meas initial t with	urement of IClass	s shall be taken 6 ms fror	m the application of V	VClass min to ignore
ACCEPT IN PRINCIF Replace p67, line 14,	LE. " Iminmax for at least Tmps								
					Table		lass shall be taken after urement is referenced fr		
	Replace p67, line 14, " Iminmax for at least Tmps every Tmps+Tmpdo," with " Iminmax continuously for at least Tmps every Tmps + Tmpdo,"					SC 33.2.8.1	P 57	L 48	# 138
Instruct the editor to a	djust the PICs to match these	echanges.			Schindler,	Frederick	Cisco Sys	tems, Inc.	
Instruct the editor to combine this comment and 149, then adjust the PICs to match these changes.				<i>Comment</i> p57, 48		Comment Status A on requires the system to	be within ICLASS_	LIM.	
			Suggested Strike	<i>Remedy</i> 'greater than or."					
P67, 6 requires lhold	67, 6 requires Ihold (Iminmax) for at least TMPS to be considered valid.				Response	greater than or.	Response Status C		
P67, 7 the MPS is ab	sent when port current is less	than Ihold (Iminm	nin).		•				
P67, 8 the MPS is eit	ner present or absent when w	ithin Ihold (Iminm	in to Iminmax).		Chang	e to "If the measu	ured IClass is within the r	ange of IClass_LIM.	
P45, 28 mr_mps_val	d asserts when port current ex	ceeds lhold for a	at least TMPS.						
not valid (Iport < Iholo	am moves from MONITOR_M). It moves from DETECT_M een true for at least TMPS.								

Cl 33 SC 33.2.8.2 P58 L31 # 139	C/ 33 SC 33.2.8.2 P59 L19 # 140
Schindler, Frederick Cisco Systems, Inc.	Schindler, Frederick Cisco Systems, Inc.
Comment Type ER Comment Status A	Comment Type ER Comment Status A
p58, 31. This statement is not necessary and could conflict with similar statements that use the parameter TCLE1 and TCLE2see lines 8 and 14.	p59, 19. A PSE physical layer classifies by measuring Iclass. When the class current measured is
SuggestedRemedy	in between two valid class ranges the PSE may report the classes that is on either side of it. When a PSE does not measure class current or chooses not to use this measurement it
Delete this sentence, or replace it with,	may report
"All measurements of Iclass shall be taken using the class event timing of table 33-10 from	class 0the default class.
the application of VclassMIN to ignore intial transients.	Placing Class 0 within table 33-9 may confuse the reader. Note that a Type 1 PSE could also ignore valid class current and report class 0.
Response Response Status C	
ACCEPT IN PRINCIPLE.	SuggestedRemedy
	Remove "May be Class 0," in the classification column of table 33-9 except for the case when
Suggest: "All measurements of Iclass shall be taken after the minimum relevant class	Iclass is >5.00 mA and < 8.00 mA, and replace the removed text with "May be."
event timing of Table 33-10. This measurement is referenced from the application of	Add a note below table 33-9 that states,
VclassMIN to ignore intial transients."	"Note: A Type 1 PSE may ignore Iclass and report class 0."
	Response Response Status C
	ACCEPT IN PRINCIPLE.
	Good catch. The addition of 'Class 0' to the guardbands disregards the fact that the PSE can assign Class 0 even if it measures Class 1, 2, 3. To be complete every entry in the Classification column shuold have 'Class 0' first, but of course that would be silly. Better to remove the extraneous Class 0 options.
	Remove "May be Class 0," in the classification column of table 33-9 except for the case when Iclass is >5.00 mA and < 8.00 mA, and replace the removed text with "Either Class" (effectively, delete '0,' in three places and '0 or' in one place). After 'Class 4' on last line add "or invalid class'.

Add a note below table 33-9 that states, "Note: A Type 1 PSE may ignore Iclass and report class 0."

Comment ID # 140

C/ 33 SC 33.2.9 P60 L12 # 141	C/ 33 SC 33.2.9 P61 L18 # 143
Schindler, Frederick Cisco Systems, Inc.	Schindler, Frederick Cisco Systems, Inc.
Comment Type E Comment Status A PSE p60, 12. Why does the specification need a static and and load regulation item listing?	Comment TypeERComment StatusApicsp61, 18. Type 1 and Type 2 device need to support a PD overload situation.
SuggestedRemedy Change references to item 2 to reference item 1. Add 33.2.9.2 to item 1 additional information. Delete item 2. Response Response Status C	SuggestedRemedy Add a note to the additional information section of item 21. Note: For practical implementations, it is recommended that Type 1 PSEs support Type 2 lunb requirements. Response Response Status
ACCEPT IN PRINCIPLE.	ACCEPT.
Change references to item 2 to reference item 1. Add 33.2.9.2 to item 1 additional information. Delete item 2.	C/ 33 SC 33.2.9.1 P61 L41 # 144 Schindler, Frederick Cisco Systems, Inc. 144
Dynamic is used with reference to item 2 but not clearly defined. If this remdy is accepted or rejected remove reference to dynamic and clean up affected sentences. Scan text for 'dynamic' and clean up references to item 2 (in this section).	Comment Type ER Comment Status A pics p61, 41. Operating limits such as power line voltage and temperature are not defined by the IEEE.
See 49 and integrated any omitted concerns.	The IEEE defines interoperability and the system designer determines over what operating range the interoperability is achieved.
	"Line" is not defined but assumed to be power supply input voltage.
Schindler, Frederick Cisco Systems, Inc.	"Line" is not defined but assumed to be power supply input voltage. SuggestedRemedy Remove the sentence, "When measured shall include line and temperature variations."
Schindler, Frederick Cisco Systems, Inc. Comment Type ER Comment Status A PSE	SuggestedRemedy
Schindler, Frederick Cisco Systems, Inc. Comment Type ER Comment Status A PSE p60, 49. It is not clear that item 8, ICUT and item 13, Ptype can be less than the Table 33- 11 minimum value unless a significant amount of the specification is read. The specification reader would	SuggestedRemedy Remove the sentence, "When measured shall include line and temperature variations."
Schindler, Frederick Cisco Systems, Inc. Comment Type ER Comment Status A PSE p60, 49. It is not clear that item 8, ICUT and item 13, Ptype can be less than the Table 33-11 minimum value unless a significant amount of the specification is read. The specification reader would benefit from a note warning that limits may be more restrictive than table values.	SuggestedRemedy Remove the sentence, "When measured shall include line and temperature variations." Have the Editor update the related PIC. Response Response Status
Schindler, Frederick Cisco Systems, Inc. Comment Type ER Comment Status A PSE p60, 49. It is not clear that item 8, ICUT and item 13, Ptype can be less than the Table 33- 11 minimum value unless a significant amount of the specification is read. The specification reader would benefit from a note warning that limits may be more restrictive than table values.	SuggestedRemedy Remove the sentence, "When measured shall include line and temperature variations." Have the Editor update the related PIC. Response Response Status C ACCEPT.
Schindler, Frederick Cisco Systems, Inc. Comment Type ER Comment Status A PSE p60, 49. It is not clear that item 8, ICUT and item 13, Ptype can be less than the Table 33- 11 minimum value unless a significant amount of the specification is read. The specification reader would benefit from a note warning that limits may be more restrictive than table values. SuggestedRemedy Add a note just below section 33.2.9 line 4 stating: Note: Table 33-11 limits show values that support worst-case operating limits. These ranges may be narrowed when additional information is known and applied in accordance with this specification.	SuggestedRemedy Remove the sentence, "When measured shall include line and temperature variations." Have the Editor update the related PIC. Response Response Status ACCEPT. Cl 33 SC 33.2.9.2 P61 L48 Schindler, Frederick Cisco Systems, Inc. Comment Type ER Comment Status A p61, 48. Imin2 is not defined in this draft. This variable is defined in the IEEE 802.3 specification. pics
Schindler, Frederick Cisco Systems, Inc. Comment Type ER Comment Status A PSE p60, 49. It is not clear that item 8, ICUT and item 13, Ptype can be less than the Table 33- 11 minimum value unless a significant amount of the specification is read. The specification reader would benefit from a note warning that limits may be more restrictive than table values. SuggestedRemedy Add a note just below section 33.2.9 line 4 stating: Note: Table 33-11 limits show values that support worst-case operating limits. These ranges may be narrowed when additional information is known and applied in accordance with this specification.	SuggestedRemedy Remove the sentence, "When measured shall include line and temperature variations." Have the Editor update the related PIC. Response Response Status CL 33 SC 33.2.9.2 P61 L48 # Id5 Schindler, Frederick Cisco Systems, Inc. Comment Type ER Comment Status A p61, 48. Imin2 is not defined in this draft. This variable is defined in the IEEE 802.3 specification. pics This variable was replaced with IMIN_MAX during a draft revision. Tevision.
Schindler, Frederick Cisco Systems, Inc. Comment Type ER Comment Status A PSE p60, 49. It is not clear that item 8, ICUT and item 13, Ptype can be less than the Table 33- 11 minimum value unless a significant amount of the specification is read. The specification reader would benefit from a note warning that limits may be more restrictive than table values. SuggestedRemedy Add a note just below section 33.2.9 line 4 stating: Note: Table 33-11 limits show values that support worst-case operating limits. These ranges may be narrowed when additional information is known and applied in accordance with this specification. C Response Response Status C Add to text around P60, L5 stating: Table 33-11 limits show values that support worst-case operating limits. These ranges may These ranges may be narrowed when additional information is known and applied in accordance with this specification.	SuggestedRemedy Remove the sentence, "When measured shall include line and temperature variations." Have the Editor update the related PIC. Response Response Status ACCEPT. Cl 33 SC 33.2.9.2 P61 L48 Schindler, Frederick Cisco Systems, Inc. Comment Type ER Comment Status A p61, 48. Imin2 is not defined in this draft. This variable is defined in the IEEE 802.3 specification. pics
Schindler, Frederick Cisco Systems, Inc. Comment Type ER Comment Status A PSE p60, 49. It is not clear that item 8, ICUT and item 13, Ptype can be less than the Table 33- 11 minimum value unless a significant amount of the specification is read. The specification reader would benefit from a note warning that limits may be more restrictive than table values. SuggestedRemedy Add a note just below section 33.2.9 line 4 stating: Note: Table 33-11 limits show values that support worst-case operating limits. These ranges may be narrowed when additional information is known and applied in accordance with this specification. Response Response Status C ACCEPT IN PRINCIPLE. Add to text around P60, L5 stating:	SuggestedRemedy Remove the sentence, "When measured shall include line and temperature variations." Have the Editor update the related PIC. Response Response Status C ACCEPT. Cl 33 SC 33.2.9.2 P61 L48 # 145 Schindler, Frederick Cisco Systems, Inc. Image: Second Status A pics p61, 48. Imin2 is not defined in this draft. This variable is defined in the IEEE 802.3 specification. This variable was replaced with IMIN_MAX during a draft revision. SuggestedRemedy Replace all occurrence of IMIN2MAX with IMIN_MAX. This change is required on pages 61, 62, This variable was required on pages 61, 62,

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

		Dee	1.40	# 440		CC 00 0 44		0.07	10	# 440
C/ 33 Schindler, F	SC 33.2.9.6 Frederick	P 63 Cisco Systems	L16	# 146	C/ 33	SC 33.2.11. , Frederick	1.2	P67 Cisco Syster	L6	# 149
Comment 1		Comment Status A	, 110.	-	PSE Commen		Comment		ns, mc.	pi
p63, 16 showin S <i>uggestedi</i> On Fig 50A at	 Figure 33-14 p og one possible ir Remedy ure 33-14 replace 	rovides a template that shows	_UP with a hor	ts. It is incorrectly izontal line drawn from	p67, max. ER Repl n Repl	6. Eliminate confu ace all "Imin_max ace table 33-11, p comment superse	using names. F " with "Ihold_m o61, item 18 "In	For example, a nax," and and ' nin" with: "Ihol	"Imin_min" with "I d."	, min name and Imin
Response		Response Status C			Suggeste	dRemedy				
ACCEF						a sentence to the ICUT threshold n			s: termined by equa	tion 33-3.
See 14	17.				Respons	9	Response	Status C		
CI 33	SC 33.2.9.6	P 63	L16	# 147		EPT IN PRINCIPI	LE.			
Schindler, F	Frederick	Cisco Systems	, Inc.		The	comment and rem	edv both cont	ain remedy info	ormationthe con	nment remedy fits this
p63, 16 <i>Suggestedi</i> Move F state."	Remedy POWER_UP belo The TF should d	Comment Status A s a state not a time. bw 0 on the x-axis of Figure 33 ecide if a note is required to c ditional recommendations.	-14. Lable this arify the use o	as "POWER_UP	Repl Repl This Imin2	ace table 33-11, p comment superse	o61, item 18 ["] In edes and is rela	nin" with: "Ihol ated to anothe		d_min." on P61 related to
Response ACCEF	PT IN PRINCIPLE	Response Status C E.			IIISU	ct the Editor to a	ujust anecteu r	-105.		
remove title.	e POWER_UP or	n the x-axis of Figure 33-14. a	opend 'state' at	t the end of the figure						
Cl 33 Schindler, F	SC 33.2.9.7 Frederick	P 63 Cisco Systems	L 42 , Inc.	# 148						
Comment 7 p63, 42	51	Comment Status A ent threshold that monitors lpe	ak. ICUT > =lp	,	bics					
	sentence to the b	bottom of 33.2.9.7 that states: by equation 33-3.	"The ICUT thre	eshold may equal the						
Response ACCEF	PT.	Response Status C								

C/ 33 SC 33.3.2 P70 L7 # 150	Cl 33 SC 33.3.3.3 P70 L34 # 151					
Schindler, Frederick Cisco Systems, Inc.	Schindler, Frederick Cisco Systems, Inc.					
Comment Type ER Comment Status A PD Class p70, 7. A Type 2 PD that has not achieved mutual ID and can function as a Type 1 PD may	Comment Type ER Comment Status A PD State Variable p70, 34. Values for variables: mdi_power_required; pd_2-event; pd_dll_capable;					
interoperate as a Type 1 PD. Fix text to make the PIC easier to read.	pd_max_power; pse_power_type; Vport_PD, are implementation dependent. These are tested but not set in the state diagrams.					
uggestedRemedy	SuggestedRemedy					
Combined and adjust the sentences on lines 6 and 7 by, replacing " restrictions. Such a PD shall" with	Add the following sentence immediately after each variable name. A variable that is set in an implementation-dependent manner.					
" restrictions and shall" then add sentence, Type 2 and Type 1 PDs that operate within the Type 1 requirements may provide the user with an active indicator	Response Response Status C ACCEPT IN PRINCIPLE.					
that it is underpowered. Have the Editor update the related PIC. Pesponse Response Status C	Add the following statement to the descriptive paragraph of mdi_power_required:					
ACCEPT IN PRINCIPLE.	A variable that is set in an implementation-dependent manner.					
Was "A Type 2 PD that does not successfully observe a 2-Event Physical Layer classification or Data Link Layer classification conforms to Type 1 PD power restrictions. Such a PD shall	the others don't need changed because: See comment 70. pd_2-event; pd_dll_capable; are changed to constants.					
provide the user with an active indication that it is underpowered. The method of active indication is left to the implementor."	Vport_PD is a physical measurement. While the way it is measured is implementation dependent, the voltage is not.					
To: A Type 2 PD that does not successfully observe a 2-Event Physical Layer classification or	pd_max_power;pse_power_type; are driven within the state machine					
Data Link Layer classification shall conform to Type 1 PD power restrictions and shall provide the user with an active indication if underpowered. The method of active indication is left to the implementor.	mdi_power_required is not set within the state machine, but is somehing that could change by some actor outsid ethe state machine.					
	Cl 33 SC 33.3.3.3 P71 L11 # 152					
Editor to modify PICS as necessary	Schindler, Frederick Cisco Systems, Inc.					
	Comment Type ER Comment Status A E p71, 11. State NOT_MDI_POWERED does not exist. I believe the state NOT_MDI_POWERED was replaced by IDLE. I believe the state NOT_MDI_POWERED was replaced by IDLE. I believe the state NOT_MDI_POWERED was replaced by IDLE.					
	SuggestedRemedy					
	Replace occurrence of "NOT_MDI_POWERED" with "IDLE."					
	Response Response Status C					

Response

ACCEPT.

C/ 33 SC 33.3.3.3	P71	L17	# 153	Cl 33 SC 33.3.7.6 P80 L28 # 155
Schindler, Frederick	Cisco System	s, Inc.		Schindler, Frederick Cisco Systems, Inc.
Comment Type ER p71, 17. These values a	Comment Status A are vague.		EZ	Comment TypeERComment StatusAPD Transient Fp80, 28. Instantaneous changes are not physically possible.
•	th "The PD input voltage doe	s not meet the	requirements of Table	SuggestedRemedy Delete "instantaneous" and replace it with "peak," or delete the word "instantaneous."
33-18 variable Vport_PI Replace "Power being" variable Vport_PD."	J." with "The PD input voltage m	neets the require	ements of Table 33-18	Response Response Status C ACCEPT IN PRINCIPLE.
Response ACCEPT.	Response Status C			Change TO:
C/ 33 SC 33.3.5.2.1 Schindler, Frederick	P 76 Cisco System	L 7 s, Inc.	# 154	A Type 2 PD with peak power draw that does not exceed PClass_PD max and has an input capacitance of 180 μF .
<i>Comment Type</i> ER p76, 7. Replace "0.25 m	Comment Status A A minimum" with "Imark."		EZ	There needs to be some indication that this is power is a real-time measurement, not an increase in the Pport (average) power.
SuggestedRemedy See comment. Response ACCEPT.	Response Status C			Original paragraph: A Type 1 PD with input capacitance of 180 μ F or less requires no special considerations with regard to transients at the PD PI. A Type 1 PD with input capacitance of 180 μ F or less requires no special considerations with regard to transients at the PD PI. A Type 2 PD with instantaneous power draw that does not exceed PClass_PD max and has an input capacitance of 180 μ F or less requires no special considerations with regard to transients at the PD PI. PDs that do not meet these requirements shall comply with the following.requires no special considerations with regard to transients at the PD PI. PDs that do not meet these requirements shall comply with the following."

33 SC 33.3.7.6	P80	L35	# 156	C/ 33	SC 33.		0	P 81	L 4	# 157
chindler, Frederick	Cisco System	is, inc.		Schindler,				isco System	is, inc.	
21	omment Status A		PD Transient PI	Comment			Comment Sta			PD Ripp
p80, 35. Use a variables inst	ead of fixed values. Pag	ge 80 Lines 34, 35	, 44.							ccurs at a frequency or item 8 di/dt of 15
uggestedRemedy				mA/us	is to high.					
Replace "20 ohms" with Typ Replace "44 V to 57 V" with Replace "12.5 ohms" with Ty	Vport_min to Vport_max	The V _I mA/us	port ad hoe . A high vo	c reporte plume IF	ed Type 1 PD, D P-phone tested h	DC-DC powe nas a di/dt ra	er supplies had d ate of less than 1	i/dt rates up to 7 mA/us.		
		5-1).		Suggested	lRemedy					
•	sponse Status C			Reduc	e Table 33	3-18 ma	ximum di/dt rate	e to 15 x 150)/478 = 4.7 mA/u	S.
ACCEPT IN PRINCIPLE.				Response			Response Sta	tus C		
From: "A Type 1 PD input current s				ACCE	PT IN PRI	NCIPLE				
20) after TLIM min (see Tabl applied. A current limited vol The current limit meets Equa V/s." To:	20 O resistance. 44 V to 57 V at 2250	(then i be me with th	= v/r). Ta asured at e Rch sou	ble 33-1 the wors irce loop	18 item 10 refers st case. The wo b. Different test	s to 33.3.7.7 orst case for methods ar	, which states th PD-generated ne e possible, to ave	g the ripple voltage e ripple voltage must oise at the PD PI is oid becoming a test prmation for item 10.		
A Type 1 PD input current sł 20) after TLIM min (see Tabl				C/ 33	SC 33.	.3.7.10		P 81	L33	# 158
applied. A current limited vol	tage source is applied to	o the PI through a	Rch resistance (See	Schindler,	Frederick		С	isco System	ns, Inc.	
Table 33-1). The current limi Vport_PSE min to Vport_PS			ramps from	Comment	Type T	R	Comment Sta	atus D		PD Ha
From: "b) The PD shall not exceed case current draw when test 50 V to 56 V at 2250 V / s, th the current to MDI ILIM per E TO: b) The PD shall not exceed to case current draw under the	ed as follows. The input he source impedance is Equation (33-13)." the PD upperbound tem following conditions. Th	voltage source di 12.5 O, and the v plate beyond TLIM	ives VPort_PD from oltage source limits I min under worst ource drives VPD from	Existir These If a cu systen Termir 0603 i This c	ng requiren diodes ha rrent is bac ns have D0 nation resis n size and orresponds ts of up to	nent ma ive a 50 ckfeed ii C-blocki stors wit have a s to a cu	nto the PSE por ng capacitors or thout DC-blockir power dissipatio urrent of 26 mA.	tky diodes f high tempe t very little v n the port te ng capacitor on limit of 1/ Therefore,	rom being used. rature and maxir vill occur becaus rmination. s are typically '10 W.	

Commenter to withdraw per off-line conversation.

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 33.6.2.1 Schindler, Frederick	P 98 Cisco Systems	L 3 s. Inc.	# 159	Cl 33 SC 33.6.5 Schindler, Frederick	P 100 Cisco Sys	L 30 stems. Inc.	# 161
,	Comment Status A	-,		Comment Type ER	Comment Status A	,	
p98, 3. For what side of the		ed?		51	e the PIC clarify the sentence	ce.	
SuggestedRemedy				SuggestedRemedy			
Expand the sentence to re The power type/source/prid source and priority defined	ority field shall contain a bi			Replace "A Type 1 F	provides DLL classification s	shall"	
Response F	Response Status C			Response	Response Status C		
ACCEPT IN PRINCIPLE.				ACCEPT IN PRINCI	PLE.		
Expand the sentence to re	ad:			OBE 229			
المعادية والمستعمل والمعام ومعاديه والمعاد	Table 00, 00, and is no		wer type,	These should be a si	ahal DIO that has an antian.	al as a shill be far DII	alagaifi agtigus Thig
source and priority defined TLV. Either side can produce th works but is reasonable to			evice producing the	would eliminate the in at the top of the sect	obal PIC that has an optiona edundancy of doing this thre ion. nplement the suggestion by	oughout the text. Thi	
TLV. Either side can produce th	e TLV. The recommended	clarification is ir	evice producing the	would eliminate the in at the top of the sect	edundancy of doing this thro ion.	oughout the text. Thi	
TLV. Either side can produce the works but is reasonable to C/ 33 SC 33.6.5 Schindler, Frederick	e TLV. The recommended add P100 Cisco Systems Comment Status R	clarification is ir <i>L</i> 26 s, Inc.	evice producing the	would eliminate the in at the top of the sect	edundancy of doing this thro ion.	oughout the text. Thi	
TLV. Either side can produce the works but is reasonable to C/ 33 SC 33.6.5 Schindler, Frederick Comment Type ER	e TLV. The recommended add P100 Cisco Systems Comment Status R	clarification is ir <i>L</i> 26 s, Inc.	evice producing the	would eliminate the in at the top of the sect	edundancy of doing this thro ion.	oughout the text. Thi	
TLV. Either side can produce the works but is reasonable to C/ 33 SC 33.6.5 Schindler, Frederick Comment Type ER p100, 26. Normally PSE ca	e TLV. The recommended add P100 Cisco Systems <i>Comment Status</i> R an meet the timing requires	clarification is ir <i>L</i> 26 s, Inc. ments.	wice producing the herent to how LLDP	would eliminate the in at the top of the sect	edundancy of doing this thro ion.	oughout the text. Thi	
TLV. Either side can produce the works but is reasonable to Cl 33 SC 33.6.5 Schindler, Frederick Comment Type ER p100, 26. Normally PSE ca SuggestedRemedy Replace "A Type 2 PSE sh send"	e TLV. The recommended add P100 Cisco Systems <i>Comment Status</i> R an meet the timing requires	clarification is ir <i>L</i> 26 s, Inc. ments.	wice producing the herent to how LLDP	would eliminate the in at the top of the sect	edundancy of doing this thro ion.	oughout the text. Thi	

Cl 33 SC 33.6.6.1 P101 L1 # 162	C/ 33 SC 33.6.6.4	P103	L 49	# 163				
Schindler, Frederick Cisco Systems, Inc.	Schindler, Frederick	Cisco System	s, Inc.					
Comment Type ER Comment Status A	Comment Type ER 0	Comment Status A						
p101, 1. Most of the variables that provide power information do not have units or a reference to how they should be interpreted.	p103, 49. This is an optiona Also see page 107, line 27.							
SuggestedRemedy	What is the default value of The State diagram on figure							
Add a sentence to the bottom of the conventions section, or add this sentence to all constants,	The State diagram on figure 33-30 only works if the default value for this time is done. The proposed solution should enable a specification reader to see that an norealized timer is always considered done.							
variables, and functions that lack this informationPDMaxPowerValue; MirroredPDAllocatedPowerValue;	SuggestedRemedy							
MirroredPSEAllocatedPowerValue; TempVar; PSE_New_Value; pse_power_review; pd_power_review.	Add a sentence to the end power_change_timer_done	•	The default state	e for this time is				
"Actual power numbers are represented using an integer value that is encoded according to	Response R	esponse Status C						
Equation (3321), where X is the decimal value of the power value field being reference."	ACCEPT IN PRINCIPLE.							
Response Response Status C ACCEPT IN PRINCIPLE.	A PSE providing more pow sync is a non-realizable situ			PSE/PD SMs are out of				
Add this sentence to all constants, variables, and functions that lack this information	remove definition of power_	_change_time on P103, L	49.					
	in SM fig 33-30, remove '+			sition between states				
PDMaxPowerValue; MirroredPDAllocatedPowerValue; pd_power_review	PSE POWER REVIEW and Remove ' * power_change			een PSE POWER				
"Actual power numbers are represented using an integer value that is encoded according to Equation (3320),	Remove ' * power_change_timer_not_done' fomr the transition between PSE POWER REVIEW and RUNNING. Strike 'START power_change_timer' from PSE POWER REALLOCATION state.							
where X is the decimal value of the power value field being referenced."	C/ 33 SC 33.6.6.6	P105	L18	# 164				
MirroredPSEAllocatedPowerValue; TempVar; PSE_New_Value; pse_power_review;	Schindler, Frederick	Cisco System		# 10 1				
"Actual power numbers are represented using an integer value that is encoded according to	Comment Type ER	Comment Status A						
Equation (3321),	p105, 18. CHANGE is not o	defined anywhere.						
where X is the decimal value of the power value field being referenced."	SuggestedRemedy							
	Define change in 33.6.6.1,	or used the preferred solu	ution of using the	e not-equal operator.				
	Replace (MirroredPDRequestedPowerValue CHANGED) with (MirroredPDRequestedPowerValue [not equal] PSE_New_value)							
	Response R	esponse Status C						
	ACCEPT IN PRINCIPLE.							
	In the INITIALIZE state, add TempVar <- PSE_INITIAL_VALUE change "MirroredPDRequestedPowerValue CHANGED" to "MirroredPDRequestedPowerValue != TempVar"							
	also strike "TempVar \leftarrow PD	RequestedPowerValueE	cho" in PSE_PO	WER_REVIEW				
TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/g COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/w SORT ORDER: Comment ID			: 1D# 164	Page 43 of 86 3/12/2009 2:49:19				

3/12/2009 2:49:19 PM

33 SC 33.6.6.6 chindler, Frederick	P106 Cisco System	L 16 is, Inc.	# 165	C/ 33 Darshan, Y	SC 33.8.3.1 ′air	-	P127 icrosemi Cor	L17 poration	# 167	
p106, 16. CHANGE is not uggestedRemedy Define change in 33.6.6.1, Replace (MirroredPSEAllocatedPow with (MirroredPSEAllocated	Comment Status A defined anywhere. or used the preferred sol werValue CHANGED)	ution of using th		Howey See m <i>Suggestea</i> Decide	CS defines 30s ver in 33.6.5 pag ultiple occurren <i>Remedy</i> e if it is 30 or 10	Comment Sta sec between TLVs ge 100 line 26 the t ces in 33.6.5 for 10 sec. the right value. Response Stat	and it is in al time is 10sed 0sec max.		lefaults of 802.1AE	<i>ТЕ</i> 2 3.
ACCEPT IN PRINCIPLE.	,				PT IN PRINCIP	,	-			
Editor: make this change a In the INITIALIZE state, ad change "MirroredPSEAlloc "MirroredPSEAllocatedPow	d TempVar <- PD_INITIA catedPowerValue CHANG	L_VALUE		See 3' Cl 33 Darshan, Y Comment	SC 33.2.9.6 ′air		P 62 icrosemi Cor <i>tus</i> A	L 38 rporation	# 168	EZ
25 SC 25.4.4a.1 arshan, Yair <i>omment Type</i> E *** Comment submitted wir *** Draft D4.0 (SA) Note 1 pag (This comment is replacing "NOTE 1-The value of the the test circuit resistance. The test circuit resistance is Following my objective of of interpretations I am suggest	ge 19 line 51 says: g other similar comment th 100 ohm termination resis should exceed 2 kohm." clarifying the text in order	Nodifiedfigure25 nat I have sent o stor can be adjus to reduce the an	n the subject) sted to compensate for nount of test conditions	The de instead other l Suggestea Chang "POW either i To: "POW	d of changing th ocation that con <i>Remedy</i> e lines 37 38 fm ER_UP mode o the expiration o ER_UP mode o the expiration o	POWER_UP is not the text it will be eas npletes it as in 33.3	PSE's trans nclusion of F PSE's trans	ake a reference le 26. ition to the POW PD inrush curren ition to the POW	to an existing text VER_UP state and its." VER_UP state and	t in d
1. Mark were the PI starts 2. Add the label "Terminati uggestedRemedy Modify figure 25-1 for bette 003.pdf): -Mark were the PI starts ar -Add the label Termination	and ends as we did in oth ion" near the 100 ohm res er clarity as follows (see a nd ends as we did in other near the 100 ohm resisto	er drawings. istor ttached file: moo r drawings.								
ACCEPT IN PRINCIPLE.	Response Status C									
OBE 30, 219, 214										

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

/ 33 SC Table 33-7 P56 L 29 # 169	C/ 33 SC 33.3.5.2 P75 L23 # 171
eia, Christian STMicroelectronics	Beia, Christian STMicroelectronics
omment Type TR Comment Status D	Comment Type TR Comment Status A
I don't see the reason for Table 33-7 to contain a link to table 33-11instead of straight numbers. It only adds difficulties for the reader.	Only Type 2 PDs are allowed to return class4, while Type1 PDs may optionally implement 2-Event class signature (as per the permutation table 33-8) returning classes 0-3
uggestedRemedy	SuggestedRemedy
Replace Ptype with: 15.4W for Type1 PSEs, 30W for Type2 PSEs. Use two lines for Type	Replace "PDs implementing a 2-Event class signature" with "Type2 PDs".
1 and Type 2	Response Response Status C
roposed Response Response Status Z REJECT.	ACCEPT IN PRINCIPLE.
	OBE 170
This comment was WITHDRAWN by the commenter.	Good catch, T33-8 does allow:
	type 1 2-event=n pd allowed=y
Diversity and a successful to the second	type 1 2-event=y pd allowed=y
Ptype is not a number in Table 33-11 but instead an equation. While we agree that the level of misdirection in this standard is high, we have agreed to may times before to keep things defined in one place so as to be sure that there aren't conflicting definitions in the	But the suggested remedy doesn't fix address the Type 1 PD that performs 2-event.
standard.	Insert as the second sentence in the paragraph starting on L23: "Type 1 PDs may choose
/ 33 SC 33.3.5.1 P75 L1 # 170	to implement 2-Event classification and return class 0, 1, 2, or 3 in accordance with the
eia, Christian STMicroelectronics	maximum power draw."
	Cl 33 SC 33.3.5.2 P75 L24 # 172
omment Type TR Comment Status A Since the definition of a 1-Event class signature is the response of a (whatever) PD to 1-	Beia, Christian STMicroelectronics
Event classification, paragraph 33.3.5.1 should describe the behavior of Type 2 PDs as	Comment Type TR Comment Status A
well. Alternatively, modify the definition of 1-event class signature in clause 1.4	Only type 2 PDS are required to comply with table 33-17
uggestedRemedy	SuggestedRemedy
Rewrite the sentence to the following: A Type 1PD shall return class 0 to 3 signature and a	Change the sentence to: The Type 2 PD's classification behavior shall conform
Type 2 PD shall return a class4 signature in accordance	Response Response Status C
esponse Response Status C	ACCEPT IN PRINCIPLE.
ACCEPT IN PRINCIPLE.	
resolve in conjuntion with comment 173.	OBE 170
PDs implementing a 2-Event class signature shall return a Class 4 classification signature in accordance with the maximum power draw, PClass_PD, as specified by Table 33–18. Since 1-Event classification is a subset of 2-Event classification, Type 2 PDs respond to 1-Event classification with Class 4. Type 1 PDs may choose to implement 2-Event classification and return class 0, 1, 2, or 3 in accordance with the maximum power draw. The Type 2 PD's classification behavior shall conform to the Figure 33–18 state diagram and the electrical specifications defined by Table 33–17.	

CI 33 SC 33.3.5.2 P75 L25 # 173	Cl 33 SC 33.3.2 P69 L52 # 174					
Beia, Christian STMicroelectronics	Beia, Christian STMicroelectronics					
Comment Type T Comment Status A	Comment Type TR Comment Status A PD Gener					
The shall statement for a PD to conform with the state diagram in figure 33-18 is already present in 33.3.3	The first description of PD Types is related to 1-event or 2-event classification. This is no wrong, but neither the main feature. The real distinction is the maximum drawn power.					
SuggestedRemedy	SuggestedRemedy					
Remove " the figure 33-18 state diagram" to read: "PD's classification behavior shall conform to the electrical specifications defined by Table 33-17"	Add a sentence as the following: PDs that expect to draw from the PSE a maximum power up to 13W are known as Type1. PDs that expect to draw from the PSE a maximum power					
Response Response Status C	up to 25.5W are known as Type2.					
ACCEPT IN PRINCIPLE.	Response Response Status C					
resolve in conjuntion with comment 170.	ACCEPT IN PRINCIPLE.					
strike "the Figure 33–18 state diagram and" from the sentence. Add sentence to end of 33.3.5: "PD classification behavior conforms to the state diagram in	add to the end of sentence at P69, L51: "The main distinction between Type 1 and Type 2 PDs is the maximum permissable power draw."					
Figure 33-18."	change text: From:					
additionally on P60, L3, strike:"Figure 33–9, Figure 33–10, and Figure 33–11." Add sentence to beginning of 33.2.9: "PSE behavior conforms to the state diagrams in	"Type 1 PDs implement 1-Event Physical Layer classification."					
Figure 33–9, Figure 33–10, and Figure 33–11. "	"Type 2 PDs implement both 2-Event Physical Layer classification (see 33.3.5.2) and Data Link Layer classification (see 33.6)."					
	To: Type 1 PDs implement a minimum of 1-Event Physical Layer classification and advertise hardware class 0-3.					
	Type 2 PDs implement both 2-Event Physical Layer classification (see 33.3.5.2) and Data Link Layer classification (see 33.6) and advertise hardware class 4.					
	C/ 33 SC 33.3.2 P69 L 53 # 175 Beia, Christian STMicroelectronics 175					
	Comment TypeTComment StatusAPD GeneAs per permutation table 33-8 a Type 1 PD is allowed to show a 2-event class signature.					
	SuggestedRemedy Change the sentence to: Type 1 PDs implement 1-Event or 2-Event class signature.					
	Response Response Status C					
	ACCEPT IN PRINCIPLE.					

/ 33 SC 33.3.2 eia, Christian	P 70 STMicroelectro	L1 pnics	# 176	<i>CI</i> 00 Maytum, N	SC 0 /lichael	P Bourns,	L Inc.	# 178
omment Type E	Comment Status R		PD Class	Comment		Comment Status R		
By definition, PDs imp 2-Event classification	blement Class signature and no is the application of a class eve		he definition for 1 or	The in the lov	npulse value o ver 1.5 kV 10/	of 1.5 kV 10/700 is too low f 700 condition allows manu ally expose users to greater	acturers to reduce	
uggestedRemedy				•		any expose users to greater	nazarus.	
Replace "Type 2 PDs implement 2-Event cl	implement 2-Event Phisical Lagass signature	yer Classification	" with "Type 2 PDs	Suggested	ikemeay			
esponse	Response Status C			Response		Response Status W	,	
REJECT.				REJE	CT.			
sequential state mach	nantics. There is a protocol (vo nine) associated with providing r s both the protocol and the actu	multiple signature		a dupl		ference to another commer ent 177 (the referred to co		
33 SC 33.4.1	P 82	L34	# 177	C/ 01	SC 1.4	P 17	L 27	# 179
aytum, Michael	Bourns, Inc.			Jones, Cha	ad	Cisco Sy	stems, Inc.	
omment Type TR	Comment Status R			Comment	Түре Е	Comment Status A		
DC voltage at least ev V, 10/700 completely TNV-1 CIRCUIT or a Resistibility of telecor overvoltages and over of 1.5 kV sets the 1.5 circuits primary protect level. Conversely more level. For unprotected (enhanced). A US tele port withstand test lever reduce failures.	C 60950-1 specifies an insulation qual to the peak AC voltage e.g. fails to reach the 2250 V peak s TNV-3 CIRCUIT voltage level of munication equipment installed recurrents. In K.21 the assumed kV test level of K.21 test 2.1.1.1 ctors are not installed, which will be thernet wiring is internal, while I TNV-1 interfaces ITU-T K.21 s becommunication supplier has for rel from 1.5 kV to 6 kV for their the	. b)2250 V dc. Im stress voltage of f 1.5 kV is based d in customer pre primary protecto b (basic). In the of l increase the inh lich will decrease specifies a higher und it necessary	npulse test of c)1500 tests a) and b). The I on ITU-T K.21 emises to r let-through voltage case of Ethernet herent impulse voltage the impulse voltage level 6 kV to increase internal	and 2- Suggested	event says as <i>IRemedy</i> e to (See IEE	finitions have the format '(S described in 33.2.8. Shou E 802.3, Clause 33, Subcla <i>Response Status</i> C	dn't we be consiste	ent?
uggestedRemedy	1500 V 10/700 test level to 225							
esponse		0 10/100						
REJECT.	Response Status W							
requirements and are	ished parameters set forth by th not replacements for safety (or roduct in a specific jurisdiction.	other) requireme	ents that may need to					
See 178 which is the	identical comment without a re	medy.						

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

 Page 47 of 86

 Comment ID # 179
 3/12/2009 2:49:19 PM

Cl 25 SC Jones, Chad	25.4.4a	P 19 Cisco Systems	L 11 s, Inc.	# 180	C/ 33 SC Jones, Chad	33.2.6.1	P 53 Cisco System	L 48 s, Inc.	# 182	
Comment Type Four new sha	TR alls in this r	Comment Status A		100BTX	Comment Type (as specified	ER I in and Tal	Comment Status A ble 3314) extra 'and'			EZ
SuggestedReme Ensure PICS	•	shalls P19, L11, L13, L19; P2	20, L5		SuggestedReme delete and: "	•	ed in Table 3314)."			
Response ACCEPT IN I	PRINCIPLE	Response Status C			Response ACCEPT.		Response Status C			
Work with Ge	erry to find	appropriate place for new PIC	Cs:		OBE 43					
		ndpoint PSE or Type 2 PD m	·		C/ 33 SC Jones, Chad	33.2.11	P 66 Cisco System	L 34 s, Inc.	# 183	
A transmitter in a Type 2 Endpoint PSE or Type 2 PD delivering or accepting more than 13.0 W average power meets either the Open Circuit Inductance (OCL) requirement in 9.1.7 of TP-PMD, or meets the requirements of 25.4.4a.1.					Comment Type a condition e SuggestedReme	dy			ΕZ	
Figure 25-1, measuremen points A and	nt .	system time constant, greate	r than 2.4 µs w	hen calculated using	replace exist <i>Response</i> ACCEPT.	s with exis	Response Status C			
voltage signa the specificat of Clause 25 the	als received itions and have p	a Type 2 Endpoint PSE or T I at the MDI that were transm passed through a link specifie te messages with a bit error	itted from a rer d in 25.4.6 are	note transmitter within translated into one of						
Cl 33 SC Jones, Chad	33.1.4	P 37 Cisco Systems	L 53 s, Inc.	# 181						
Comment Type "related to bu	E ut not equiv	Comment Status A alent to the" Missing comm	as?	EZ						
SuggestedRemer related to, bu	•	alent to, the								
Response ACCEPT.		Response Status C								

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

Cl 33 SC 33.3.7.1 P77 L51 # 184 Jones, Chad Cisco Systems, Inc. Comment Type T Comment Status D PD Startup Von is 42.0V. Vport_pd min for a T2 PD is 42.5V. The 'must turn on' range does not include the operational range of the Type 2 PD. SuggestedRemedy Raise Von to 43V to include the lower operational limit of Type 2 PDs Proposed Response Response Status Z REJECT. This comment was WITHDRAWN by the commenter. 1) A type 2 PD has to work as a type 1 PD under some cases, therefore it has to meet the (.af) startup requirements of T33-18 item11. Practically speaking, startup transitions occur with a PD at very low current when the PSE voltage is brought to its minimum. This elimiantes the loop IR drop, and assures a PD startup.	Cl 33 SC 33.2.4.6 P49 L34 # 186 Jones, Chad Cisco Systems, Inc. EZ Comment Type T Comment Status A EZ This is the first mention of mutual identification, before it is defined. SuggestedRemedy add (see 33.2.8) after mutual identification Response Response Status C ACCEPT. Cl 33 SC 33.2.8 P55 L41 # 187 Jones, Chad Cisco Systems, Inc. Comment Type T Comment Status A This is the definition of mutual identification and it seems to be incomplete SuggestedRemedy
Comment Type T Comment Status D PD Startup Von is 42.0V. Vport_pd min for a T2 PD is 42.5V. The 'must turn on' range does not include the operational range of the Type 2 PD. SuggestedRemedy SuggestedRemedy Raise Von to 43V to include the lower operational limit of Type 2 PDs Proposed Response Response Status Z REJECT. This comment was WITHDRAWN by the commenter. 1) A type 2 PD has to work as a type 1 PD under some cases, therefore it has to meet the (.af) startup requirements of T33-18 item11. Practically speaking, startup transitions occur with a PD at very low current when the PSE voltage is brought to its minimum. This elimiantes the loop IR drop, and assures a PD	Comment Type T Comment Status A EZ This is the first mention of mutual identification, before it is defined. SuggestedRemedy add (see 33.2.8) after mutual identification Response Response Status C Response Response Status C ACCEPT. C/ 33 SC 33.2.8 P55 L41 # 187 Jones, Chad Cisco Systems, Inc. Comment Type T Comment Status A This is the definition of mutual identification and it seems to be incomplete A
 REJECT. This comment was WITHDRAWN by the commenter. 1) A type 2 PD has to work as a type 1 PD under some cases, therefore it has to meet the (.af) startup requirements of T33-18 item11. Practically speaking, startup transitions occur with a PD at very low current when the PSE voltage is brought to its minimum. This elimiantes the loop IR drop, and assures a PD 	C/ 33SC 33.2.8P 55L 41# 187Jones, ChadCisco Systems, Inc.Comment TypeTComment StatusAThis is the definition of mutual identification and it seems to be incomplete
(.af) startup requirements of T33-18 item11. Practically speaking, startup transitions occur with a PD at very low current when the PSE voltage is brought to its minimum. This elimiantes the loop IR drop, and assures a PD	Comment Type T Comment Status A This is the definition of mutual identification and it seems to be incomplete
See also comment 251 that requires specifies Von as a minimum voltage for start and VportPD as static voltage afterwards.	add after "PDs." on L43: "PDs or PSEs that do not implement classification will not be able to complete mutual identification and can only perform as a Type 1 device." <i>Response</i> <i>Response Status</i> C ACCEPT.
C/ 33 SC 33.3.7.2.1 P78 L14 # [185] Jones, Chad Cisco Systems, Inc. Cisc	
Comment Type TR Comment Status A PD Pport PPort_PD shall be measured when the PD is fed by VPort_PD min to VPort_PD max with RCh (as defined in Table 331) in series If you are talking about the PD PI, Rch is not in series. PD port power and voltage already discounts the cable loss.	
SuggestedRemedy remove _PD in two spots in sentence on L14	
Response Response Status C ACCEPT IN PRINCIPLE.	
OBE 216	

Cl 33 SC 33.2.9 P60 L1 # 188 Darshan, Yair Microsemi Corporation	If a PD is just a 180 uF cap. then it takes 180 x 20 x 4 = 14.4 ms to charge up. The excess power is used to power the PD.
Comment TypeGRComment StatusDpicsDraft D4.0 Table 33-11 items 1,6,7	CI 33 SC 33.3.7 P77 L 22 # [189] Darshan, Yair Microsemi Corporation
When I reviewed the PSE and PD specifications during startup, I have noticed that there is a big difference between the energy dissipated at the PD per Table 33-18 items 1,5 and 50msec (PD spec) and what is specified for The PSE spec in Table 33-11 items 1,6,7 at the same time. Example: PD worst case numbers: 0.4Ap, 0.05sec, Vport 36V to 57V.	Comment Type E Comment Status A E Draft D4.0 (SA) Table 33-18 item 9: There is missing information regarding the maximum PD capacitance which is limited by item 5 (PD inrush current of 0.4A as specified in 33.3.7.3 E
Cable: 0.4A to 0.45A for 0.05sec to 0.075sec, Rch=20 ohms. If we add the energy dissipated in PD and Cable and compare it to the PSE numbers (44V- 57V, 0.4A to 0.45A, 0.05s to075sec) we get huge difference which can never be used but	SuggestedRemedy Add to the additional information column for item 9: See 33.3.7.3
hence not a cost effective requirement. In order to solve this we can just add simple text at the PSE part during power up which requires that POWER_UP parameters shall be tested with a PD load that meets the above PD parameters per Table 3-18 specifications.	Response Response Status C ACCEPT.
SuggestedRemedy	C/ 30 SC 30.2.5 P26 L26 # 190
Add the following text at 33.2.9.6 after line 40:	Mahinfallah, Ahmad Cisco Systems, Inc.
"The specifications for linrush and Tinrush shall be met when PSE is connected to a load that meets Table 33-18 items 1,2,9 and 33.3.7.3." or better text.	Comment Type TR Comment Status A 8 It is required to have a defined and unique PD model number if aPDModelNumber is to be used.
Proposed Response Response Status Z	SuggestedRemedy
REJECT.	Provide for a well-defined and unique PD model number.
This comment was WITHDRAWN by the commenter.	Response Response Status C ACCEPT IN PRINCIPLE.
	OBE 86 which deleted the attribute.
The heat dissipated during inrush: Vpse < 10 V, 10 mA 10 V < Vpse < 30 V, 60 mA	C/ 30 SC 30.2.5 P26 L26 # 191 Mahinfallah, Ahmad Cisco Systems, Inc. 191
30 V < Vpse < 57 V, 400 mA Vds = 57 - Vpse	Comment Type ER Comment Status A 8 What is meant by this comment "aPDReducedOperationPowerValue does not belong to any package"?
Note that as the current requirement increase, Vds decreases. In the worst-case where 0 to 30 V occurs in 0 time:	SuggestedRemedy Please define and elaborate.
(57 - 30) x 0.4 x 0.05 = 0.54 J	Response Response Status C
The worst-case system is:	ACCEPT IN PRINCIPLE.
A PD that has 180 uF and is drawing some power.	OBE 254

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

Page 50 of 86 3/12/2009 2:49:19 PM

Cl 33 SC 33.2.9 Mahinfallah, Ahmad	P 60 Cisco System	L 13 ns, Inc.	# 192		C/ 33 Law, David	SC 33.4.4	Р 86 3Com	L 35	# 195	
Comment Type E Vport is used in previo	Comment Status A ous sections, but it is defined la	ater in this sectio	n.	pics	<i>Comment T</i> Add a r	<i>ype</i> E note to define D	Comment Status A			EZ
SuggestedRemedy Define Vport in the first	st place it appears in the docu	ment.			Suggested Add a r	-	'DUT - Device under test'.			
Response ACCEPT IN PRINCIP	Response Status C PLE.				Response ACCEF	·Τ.	Response Status C			
OBE 90.					C/ 33	SC 33.4.2	P83	L 43	# 196	
C/ 33 SC 33.8.3.1	0 P127	L1	# 193		Law, David		3Com			
Mahinfallah, Ahmad	Cisco System	ns, Inc.			Comment T		Comment Status A			ΕZ
Comment Type TR	Comment Status A			TEZ	Genera	lly clauses othe	er than 33, the 'cm' of 'Ecm' is	a subscript.		
Item DLL4, DLL6, DL	L8, DLL12 and DLL15 are inco	prrect and have n	ot been updated.		Suggested	-				
SuggestedRemedy							m' to be a subscript. If this cha lif' of 'Edif' to be subscripts.	ange is made al	so change the 'cm_	out
Update these DLLs.					Response		Response Status C			
Response ACCEPT IN PRINCIP	Response Status C PLE.				ACCEF	ΥT.				
See 312, 313, 314, 31	18				C/ 33 Law, David	SC 33.4.3	Р 84 3Com	L 46	# 197	
C/ 33 SC 33.4.4	P 86	L 8	# 194		Comment T	ype T	Comment Status A			
Law, David	3Com				Is Edif '	the resulting	wave-form due' or rather a v	oltage of the res	sulting wave-form, a	also
Comment Type T	Comment Status A	in	ant must date of				rences the ' applied sine wav ly Edif is also shown in Figure		no mention of the a	sine
·	acitor shown in Figure 33-24 (I	ines o and 27) is	not provided.		Suggested	Remedy				
	33-23 add a '**' to both these ca npedance less than 1 Ohm Hz'	apacitors and a r	note in the figure th	nat	Ecm is Edif is t		applied sine wave voltage as s ne resulting wave-form due on			ed
Response	Response Status C				Response		Response Status C			
ACCEPT.					ACCEF	ΥТ.				
See 210										

33 SC :	33.4.2	P 84	L14	# 198	C/ 33	SC 33.4.1.1.1	P 83	L11	# 201
aw, David		3Com			Law, David	ł	3Com		
Comment Type	T Comm	ent Status A			Comment	Туре Е	Comment Status A		
The common mode ground reference is labeled as 'PG' however PG is the 'Protective Ground' of the AUI connector (see 7.5.2). This is therefore is only relevant to 10BASE-T				evant to 10BASE-T			instances of PSE and/or PE r both, shall meet') shall meet' sh	ould read 'multiple
				Ided MAU by stating in	Suggested	lRemedy			
subclause 14.3 'MAU electrical specifications' that 'The ground for all common-mode tests is circuit PG, Protective Ground of the AUI. In implementations without an AUI, chassis ground is used as circuit PG.'. The label PG does not appear in any of the other common- mode related figures.						ces of PSE, PD o	nces of PSE and/or PD sha r both, shall meet' here an		
uggestedRemed	ly				Response		Response Status C		
	remove the label F figures and doesn't			in the other common-	ACCE	PT.			
	that found in 1000			ical specifications'	CI 33	SC 33.4.1.1.1	P 83	L10	# 202
that reads 'Common-mode tests use the common-mode return point as a reference.' can be added to subclause 33.4 if there is a desire to define the common-mode reference point.				Law, David	k	3Com			
esponse	Respo	nse Status C		·	Comment	Туре Т	Comment Status A		
Response Response Status C ACCEPT IN PRINCIPLE.							nedium standard' that we react colation requirement and the		

from the list.

SC 33.4.2

Е

Remove 'PG' from Figure 33-21.

Remo		0 21.				SuggestedRemedy
<i>CI</i> 33 Law, Davi	SC 33.4 d	Р 82 3Com	L 21	# 199		Change the text requirements of t
Comment 10BA	51	Comment Status A 00BASE-T and 1000BASI	E-T are PHYs.		EZ	Response ACCEPT.
Suggestee	,					See 206
	5	0BASE-T, 100BASE-TX, 00BASE-TX, and 1000BA		T.' to read ' of the		C/ 33 SC 33.
Response	, F	Response Status C				Law, David
ACCE						Comment Type E A more direct ref
CI 33	SC 33.4.1.1.1	P83	L10	# 200		subclause 25.4.
Law, Davi	d	3Com				SuggestedRemedy
Comment The is		Comment Status A for 100BASE-T are provid	ded in subclause	25.4.5 and not in th	е	Change '(See 14 40.8.3.4.)'.
	MD specification.					Response
Suggestee	dRemedy					ACCEPT.

Change 'TP-PMD' to read 25.4.5 here and also on line 24 of subclause 33.4.1.1.2 below.

Response Response Status C

ACCEPT.

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

Change the text '.. requirements of the basic MAU/PHY/medium standard.' to read '... requirements of the MAU or PHY.' here and also on line 23 of subclause 33.4.1.1.2 below.

P83

3Com

A more direct reference for 100BASE-T, rather than simply Clause 25, would be to

Change '(See 14.3.1.2.7, Clause 25, and 40.8.3.4.)' to read '(See 14.3.1.2.7, 25.4, and

L36

Response Status C

Comment Status A

Response Status C

Page 52 of 86 3/12/2009 2:49:19 PM

ΕZ

203

C/ 33	SC 33.4.2	P83	L35	# 204
Law. Dav	vid	3Com		

Comment Type T Comment Status A

This subclause states 'Each wire pair of the PSE or PD when it is encompassed within the MDI shall ..' however PSE and PD's don't have wire pairs, the PI does. Also the based on the Subclause 1.4.282 'Power Interface (PI)' definition 'In an Endpoint PSE and in a PD the Power Interface is the MDI.'. This subclause states that 'When a PSE is not encompassed within an MDI ..', similarly a PSE can't be encompassed into a MDI.

Suggest the condition be that a PI is also a MDI - or not - and that we be clear what we are really talking about is an Endpoint or a Midspan.

SuggestedRemedy

Suggest the text 'Each wire pair of the PSE or PD when it is encompassed within the MDI shall ..' is changed to read 'Each wire pair of the PI, when it is also an MDI (i.e., an Endpoint PSEs and PDs), shall ..' and that the text 'When a PSE is not encompassed within an MDI, the PSE PI shall ..' be changed to read 'When a PI is not an MDI (i.e., an Midspan PSE), , the PI shall ..' The resultant new paragraph would read: 'Each wire pair of the PI, when it is also an MDI (i.e., an Endpoint PSEs and PDs), shall meet the fault tolerance requirements of the appropriate specifying clause (see 14.3.1.2.7, 25.4, and 40.8.3.4.). When a PSE PI is not an MDI (i.e., an MIdspan PSE), the PSE PI shall meet the fault tolerance requirements of this subclause.'

Response

Response Status C

ACCEPT IN PRINCIPLE.

Change the text 'Each wire pair of the PSE or PD when it is encompassed within the MDI shall ..'

To: 'Each wire pair of the PI, when it is also an MDI (i.e., an Endpoint PSE or PD), shall ..'

Change the text 'When a PSE is not encompassed within an MDI, the PSE PI shall ..' To: 'When a PI is not an MDI (i.e., a Midspan PSE), , the PI shall ..'

C/ 33 SC 33.4.2 Law, David		33.4.2	Р 83 3Com	L 44	# 205			
Comment	Гуре	т	Comment Status A		TEZ			
This paragraph states that the impulse be applied ' of either polarity (as indicated in Figure								

33--21).' yet I don't see any polarity indicated in Figure 33-21. The same paragraph states later that the impulse is applied '.. as shown in Figure 33--21.' so this first reference to Figure 33-21 in this paragraph seems redundant.

SuggestedRemedy

Delete the text '(as indicated in Figure 33--21)'.

Response	Response Status	С
ACCEPT.		

C/ 33	SC 33.4.3	P84	L 30	# 206
Law, Davi	d	3Com		
Comment At 10	t <i>Type</i> E Mb/s it is a MAU r	<i>Comment Status</i> A ather than a PHY.		
Suggeste Chan		(' to read ' 10Mb/s MAU'.		
Response ACCE		Response Status C		
See 2	202			
<i>CI</i> 33 Law, Davi	SC 33.3.7.6	Р 80 3Com	L 43	# 207
Comment	туре Т	Comment Status A		PD Transient PI

Since this isn't a conformance test specification, but an interoperability specification, it is best if we can avoid specifying in terms of test conditions, but instead in terms of the conditions under which the specification shall be met.

SuggestedRemedy

Change '.. when tested as follows.' to read '.. under the following conditions.'.

Response	Response Status	С	
		•	

ACCEPT IN PRINCIPLE.

OBE 156

CI 33	SC 33.4.4	P 85	L 45	#	208
Law, David		3Com			

Comment Type T Comment Status A

Since this isn't a conformance test specification, but an interoperability specification, it is best if we can avoid specifying in terms of test conditions, but instead in terms of the conditions under which the specification shall be met.

SuggestedRemedy

Change 'The PIs shall be tested with the PHY transmitting data, an operating PSE or PD, and with the following PSE load or PD source requirements:' to read 'The common-mode AC output voltage shall be measured under while the PHY is transmitting data, the PSE or PD is operating, and has the following PSE load or PD source:'. Also change 'When testing ... ' to read 'For a ...' in both items 1) and 2).

Response Response Status C

ACCEPT.

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

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

Comment ID # 208

Page 53 of 86 3/12/2009 2:49:19 PM

C/ 33 SC 33.4.6	P 87	L 36	# 209	C/ 33 SC 33.4.5	P 87	L 3	# 211
Law, David	3Com			Law, David	3Com		

Comment Type T Comment Status A

Since this isn't a conformance test specification, but an interoperability specification, it is best if we can avoid specifying in terms of test conditions, but instead in terms of the conditions under which the specification shall be met.

In addition subclause 33.4.4 items 1) and 2) already specify that the PD or PSE has to be terminated as illustrated in Figure 33-24 so it is not necessary to state this again in this paragraph.

SuggestedRemedy

Suggest that the entire subclause be changed to simply read 'The coupled noise, Ed out in Figure 33-24, from a PSE or PD to the differential transmit and receive pairs shall not exceed 10 mV peak-to-peak when measured from 1 MHz to 100 MHz under the conditions specified in 33.4.4, item 1) and item 2).'. The PICS will need a similar update.

Response	Response Status	С

ACCEPT.

CI 33	SC 33.4.5	P 87	L 8	# 210
Law, David	1	3Com		

Comment Type Comment Status A т

The value for the capacitor shown in Figure 33-24 (lines 8 and 27) is not provided.

Response Status C

SuggestedRemedy

As is done in Figure 33-23 add a '**' to both these capacitors and a note in the figure that states '** Capacitor impedance less than 1 Ohm from 1 MHz to 100 MHz'

Response

ACCEPT.

It's figure 33-25.

See 194

Comment Type T Comment Status A

Since a PI is defined in Subclause 1.4.282 'Power Interface (PI)' defines a PI as 'The mechanical and electrical interface between the Power Sourcing Equipment (PSE) or Powered Device (PD) and the transmission medium. In an Endpoint PSE and in a PD the Power Interface is the MDI.' the marking of PI A and PI B in Figure 33-25 implies that the measurement is being performed between two separate PSEs or PDs on a NID rather than different PI wire pairs on the same PSE or PD. Since I think the latter is the intent here the labels A and B should be deleted and the two dotted lines should be joined.

SuggestedRemedv

Change 'PI A' to read 'PI' and delete 'PI B' from the figure, join the two dotted lines to form one single dotted line.

Response	9	Response Status C	
ACCE	EPT.		
CI 33	SC 33 1 3	P37	

C/ 33	SC 33.1.3	P 37	L 8	# 212
Law, David		3Com		

Comment Type Comment Status A т

In IEEE Std 802.3af the similar figure for the Midspan PSEs made it clear that power was only supplied from the PSE to the PD - this was simple since the 'spare pairs' we 'broken' in the PSE and only the ones connecting to the PI were powered. Now in the case of IEEE 802.3at Midspans, the use of transformer coupling or other techniques, allows power to be supplied on the 'data pair' if desired. I however still think there is merit to indicate in this figure that power is only sourced in the direction of the PI so an initial reader will capture this concept from the diagram.

SuggestedRemedy

Suggest that the two vertical lines connecting the PSE box in the Midspan to the wire be changed to curved lines curving in the direction of the PI - or alternatively use something similar to the bus rippers symbol found in schematics - after all we are only powering half of the 8 wires in the 'bus'.

Response Status C

Response

ACCEPT.

Cl 25	SC 25.4.4a	P 19	L18	# 213		C/ 33	SC 33.4.9.2.1	
Law, David		3Com				Law, David		
Comment 7	Гуре Т	Comment Status A			TEZ	Comment 7	Гуре Т	
best if v conditio	we can avoid spo ons under which	mance test specification, but ecifying in terms of test condit the specification shall be me	ions, but instea		is	implem perform	cision to perform i lenter however the ned by applying' e normal wording t	c
Suggestedl							use be merged wit	
		ne fixture shown' should rea ote 1 as this relates to one of t				Suggestedl	-	
effects not cov Response	of the measurer rered in the note	ementation of the reference c nent equipment used - that al s. <i>Response Status</i> C				Midspa by' to be mea	e the title 'Alternat in PSE signal path read 'The transfe asured from the ou n is defined from t	n † r iti
ACCEF	' 1.					Response		1
C/ 25 Law, David	SC 25.4.4a.1	P 19 3Com	L 34	# 214		ACCEF	PT.	
,						CI 33	SC 33.3.7.2.1	
Comment 7		Comment Status A			EZ	Law, David		
		arate figure numbers and titles onstant measurement diagrar		tter load circuit		Comment 7	Туре Т	
	n and the time c							
diagran S <i>uggestedl</i>	Remedy	diagram that reads 'Type 2 sy	/stem time cons	tant test load' and		best if v	his isn't a conform we can avoid spec ons under which th	cif

Response

ACCEPT.

Response Status C

P91 L32 # 215 3Com

Comment Status A

independent third party compliance testing is up to the start of this paragraph which reads 'Compliance testing shall be could be misread to imply it is required by the standard. Since this used for normative requirements such as these suggest that this th the previous subclause.

ive A Midspan PSE compliance test setup' to read 'Alternative A transfer function', change 'Compliance testing shall be performed r function is measure by ...' and change 'The transfer function shall utput termination to the Midspan PSE input.' to read 'The transfer he output termination to the Midspan PSE input.'.

Response ACCE		Response Status C		
C/ 33 Law, Davi	SC 33.3.7.2.1	Р 78 3Com	L13	# 216
Comment		Comment Status A		PD Pport

nance test specification, but an interoperability specification, it is cifying in terms of test conditions, but instead in terms of the he specification shall be met.

SuggestedRemedy

Change 'PPort PD shall be measured when the PD is fed by VPort PD min to VPort PD max with RCh (as defined in Table 33-1) in series. PPort_PD is defined as:' to read 'When the PD is fed by VPort_PD min to VPort_PD max with RCh (as defined in Table 33-1) in series PPort PD shall be defined as:'

Response Response Status C

ACCEPT IN PRINCIPLE.

Change 'PPort_PD shall be measured when the PD is fed by VPort_PD min to VPort_PD max with RCh (as defined in Table 33-1) in series. PPort_PD is defined as:'

to read 'When the PD is fed by Vport_PSE min to Vport_PSE max with RCh (as defined in Table 33-1) in series PPort_PD shall be defined as:

CI 33 SC 33.3.7.2.1 P78 L13 # 217	C/ 25 SC 25.4.4a.1 P19 L 30 # 219
Law, David 3Com	Law, David 3Com
The text ' when the PD is fed by VPort_PD min to VPort_PD max with RCh' doesn'	
make it clear if VPort_PD is to be applied to the PD through RCh or if a voltage is app through RCh to achieve Vport_PD at the PD. I suspect it is the latter.	SuggestedRemedy
SuggestedRemedy	Mark the boxes with a cross in them with a vertical dotted line that is annotated MDI.
Change ' when the PD is fed by VPort_PD min to VPort_PD max with RCh' to read when VPort_PD min to VPort_PD max is applied to the PD through a source resistant RCh'.	
Response Response Status C	OBE 30, and add MDI.
ACCEPT IN PRINCIPLE.	C/ 25 SC 25.4.4a.1 P19 L 26 # 220
OBE 216	Law, David 3Com
C/ 25 SC 25.4.4a.1 P19 L42 # 218	Comment Type T Comment Status A
J/25 $J/25$ $J/25.4.43.1$ $P'19$ $L42$ $# 1218$	If a cable is to be allowed we should specify what cable it is, can it be any piece of cable
Law, David 3Com	does it have to be Cat 5 or better. Suspect it is the latter so specify the cable has to me
Law, David 3Com Comment Type E Comment Status A	does it have to be Cat 5 or better. Suspect it is the latter so specify the cable has to me or exceed subclause 25.4.7 'UTP cable plant'.
Law, David 3Com	does it have to be Cat 5 or better. Suspect it is the latter so specify the cable has to me
Law, David 3Com Comment Type E Comment Status A The equation should be placed in the text flow with definitions of the parameter used.	100BTX does it have to be Cat 5 or better. Suspect it is the latter so specify the cable has to me or exceed subclause 25.4.7 'UTP cable plant'. 100BTX SuggestedRemedy Change ' cable less than' to read ' cable, meeting or exceeding the requirements or
Law, David 3Com Comment Type E Comment Status Comment Type E Comment Status The equation should be placed in the text flow with definitions of the parameter used. SuggestedRemedy See comment. Response Response Status	does it have to be Cat 5 or better. Suspect it is the latter so specify the cable has to me or exceed subclause 25.4.7 'UTP cable plant'. 100BTX SuggestedRemedy Change ' cable less than' to read ' cable, meeting or exceeding the requirements o 25.4.7, less than'.
Law, David 3Com Comment Type E Comment Status A The equation should be placed in the text flow with definitions of the parameter used. SuggestedRemedy See comment. Response Response Status C ACCEPT IN PRINCIPLE.	does it have to be Cat 5 or better. Suspect it is the latter so specify the cable has to me or exceed subclause 25.4.7 'UTP cable plant'. 100BTX SuggestedRemedy Change ' cable less than' to read ' cable, meeting or exceeding the requirements o 25.4.7, less than'. Response Response Status
Law, David 3Com Comment Type E Comment Status Comment Type E Comment Status The equation should be placed in the text flow with definitions of the parameter used. SuggestedRemedy See comment. Response Response Status	does it have to be Cat 5 or better. Suspect it is the latter so specify the cable has to me or exceed subclause 25.4.7 'UTP cable plant'. 100BTX SuggestedRemedy Change ' cable less than' to read ' cable, meeting or exceeding the requirements or 25.4.7, less than'. Response Response Status ACCEPT.
Law, David 3Com Comment Type E Comment Status A The equation should be placed in the text flow with definitions of the parameter used. SuggestedRemedy See comment. Response Response Status C ACCEPT IN PRINCIPLE. Suggested text below. Also see 122, 214. Point B is the point of maximum baseline wander droop, and is the zero point for the	does it have to be Cat 5 or better. Suspect it is the latter so specify the cable has to me or exceed subclause 25.4.7 'UTP cable plant'. 100BTX SuggestedRemedy Change ' cable less than' to read ' cable, meeting or exceeding the requirements of 25.4.7, less than'. Response Response Status ACCEPT. C/ 33 SC 33.4.9.2.1 P91 L 36 221
Law, David 3Com Comment Type E Comment Status A The equation should be placed in the text flow with definitions of the parameter used. SuggestedRemedy See comment. Response Response Status C ACCEPT IN PRINCIPLE. Suggested text below. Also see 122, 214. Point B is the point of maximum baseline wander droop, and is the zero point for the vertical axis. Point A, with MDI voltage VA, is earlier in time from B, with a magnitude that is 80 % of the MLT-3 upper envelope value Point C, with MDI voltage VC, is between	does it have to be Cat 5 or better. Suspect it is the latter so specify the cable has to me or exceed subclause 25.4.7 'UTP cable plant'. 100BTX SuggestedRemedy Change ' cable less than' to read ' cable, meeting or exceeding the requirements of 25.4.7, less than'. Response Response Status C/ 33 SC 33.4.9.2.1 P91 L 36 Law, David 3Com Comment Type T Comment Status A Rather that calling out 'CAT5' we should really reference 11801 alternatively suggest
Law, David 3Com Comment Type E Comment Status A The equation should be placed in the text flow with definitions of the parameter used. SuggestedRemedy See comment. Response Response Status C ACCEPT IN PRINCIPLE. Suggested text below. Also see 122, 214. Point B is the point of maximum baseline wander droop, and is the zero point for the vertical axis. Point A, with MDI voltage VA, is earlier in time from B, with a magnitude that is 80 % of the MLT-3 upper envelope value	100BTX does it have to be Cat 5 or better. Suspect it is the latter so specify the cable has to me or exceed subclause 25.4.7 'UTP cable plant'. 100BTX SuggestedRemedy Change ' cable less than' to read ' cable, meeting or exceeding the requirements or 25.4.7, less than'. Response Response Status C ACCEPT. Cl 33 SC 33.4.9.2.1 P91 L 36 # 221 Law, David 3Com Lew. Comment Type T Comment Status A Rather that calling out 'CAT5', we should really reference 11801, alternatively suggest it would be simpler to reference the 100BASE-T cabling specification found in subclause
Law, David 3Com Comment Type E Comment Status A The equation should be placed in the text flow with definitions of the parameter used. SuggestedRemedy See comment. Response Response Status C ACCEPT IN PRINCIPLE. Suggested text below. Also see 122, 214. Point B is the point of maximum baseline wander droop, and is the zero point for the vertical axis. Point A, with MDI voltage VA, is earlier in time from B, with a magnitude that is 80 % of the MLT-3 upper envelope value. Point C, with MDI voltage VC, is between A and B, with a magnitude that is 20 % of the MLT-3 upper envelope value. The time between A and C is T. These measurements are to be made for the transmitter pair and observing the different signal output at the MDI with intervening cable less than 1 m long. The time constant of the transmitter	100BTX does it have to be Cat 5 or better. Suspect it is the latter so specify the cable has to me or exceed subclause 25.4.7 'UTP cable plant'. 100BTX SuggestedRemedy Change ' cable less than' to read ' cable, meeting or exceeding the requirements or 25.4.7, less than'. Response Response Status C ACCEPT. ACCEPT. Cl 33 SC 33.4.9.2.1 P91 L 36 # [221] Law, David 3Com Comment Type T Comment Status A Net. Rather that calling out 'CAT5', we should really reference 11801, alternatively suggest to it would be simpler to reference the 100BASE-T cabling specification found in subclaus 25.4.7 'UTP cable plant' - after all - it is this channel we are trying to replicate. Suggest that ' a 0.5 m maximum length of CAT5 cable, terminated' should be change to read ' a 0.5 m maximum length of cable, meeting the requirements of 25.4.7,
Law, David 3Com Comment Type E Comment Status A The equation should be placed in the text flow with definitions of the parameter used. SuggestedRemedy See comment. Response Response Status C ACCEPT IN PRINCIPLE. Suggested text below. Also see 122, 214. Point B is the point of maximum baseline wander droop, and is the zero point for the vertical axis. Point A, with MDI voltage VA, is earlier in time from B, with a magnitude that is 80 % of the MLT-3 upper envelope value Point C, with MDI voltage VC, is between A and B, with a magnitude that is 20 % of the MLT-3 upper envelope value. The time between A and C is T. These measurements are to be made for the transmitter pair and observing the different signal output at	100BTX does it have to be Cat 5 or better. Suspect it is the latter so specify the cable has to me or exceed subclause 25.4.7 'UTP cable plant'. 100BTX SuggestedRemedy Change ' cable less than' to read ' cable, meeting or exceeding the requirements of 25.4.7, less than'. Response Response Status C ACCEPT. ACCEPT. Cl 33 SC 33.4.9.2.1 P91 L 36 # 221 Law, David 3Com Comment Type T Comment Status A Rather that calling out 'CAT5', we should really reference 11801, alternatively suggest it it would be simpler to reference the 100BASE-T cabling specification found in subclaus 25.4.7 'UTP cable plant' - after all - it is this channel we are trying to replicate. Suggest that ' a 0.5 m maximum length of CAT5 cable, terminated' should be change to read ' a 0.5 m maximum length of cable, meeting the requirements of 25.4.7,

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 # 221

Page 56 of 86 3/12/2009 2:49:19 PM



Comment Type T Comment Status R

The two states 'PD POWER REALLOCATION' and 'PD POWER REQUEST' perform the same action, that is assign 'PDRequestedPowerValue' the value 'PD_New_Value'. Since the transition between the two states is a UCT the state 'PD POWER REALLOCATION' is redundant

SuggestedRemedy

Delete the state 'PD POWER REALLOCATION', change the transition from 'PD POWER REVIEW' to 'PD POWER REQUEST' to read ((PD_New_Value > PDMaxPowerValue) * (PD_New_Value > TempVar)) + (PD_New_Value =< PDMaxPowerValue) + (PD_New_Value =< TempVar).

Response Response Status C

REJECT.

Commentor admits this comment was incorrect in comment 252

CI 33	SC 33.6.6.5	P 104	L 6	# 223
Law, David		3Com		

Comment Type T Comment Status A

In the case of the examine_request function it is stated that PSE_New_Value is 'The new max power value that the PSE expects the PD to draw.' This is only true in the cases where change_accept is TRUE, when FALSE there request has been rejected and there will not be a new max power value. Further it is stated that when change_accept is TRUE 'The requested change to the allocated power is accepted', well if that is the case then PSE_New_Value should be set to equal the value that the PD has requested, if it can be set to another value the request hasn't really been accepted.

SuggestedRemedy

If the PSE can only accept of reject the requested new power, as the definition for the variable change_accept seems to state, the variable PSE_New_value should read 'Set to MirroredPDRequestedPowerValue when change_accept is set TRUE', if it can be set to any value regardless of what the PD requested the variable PSE_New_value should read 'The new max power value that the PSE expects the PD to draw when change_accept is set TRUE'.

Response Response Status C

ACCEPT IN PRINCIPLE.

OBE 121

Law, David 3Com Comment Type T Comment Status A

This text states that 'The PSE responds to a PD's request through the aDLLPSEAllocatedPowerValue (30.9.1.1.20) attribute in the PSE object class.'. Now it may depend on what is considered a response but the PSE copies the request to the 'echo' value, the aDLLPDRequestedPowerValueEcho (30.9.1.1.19) attribute when the PSE power control state diagram MIRROR UPDATE state. It will only change the aDLLPSEAllocatedPowerValue (30.9.1.1.20) attribute if the change requested by the PD is accepted - which can change at any other time if the PSE chooses to change the allocated value for internal reasons.

SuggestedRemedy

Suggest changing:

'The PSE responds to a PD's request through the aDLLPSEAllocatedPowerValue (30.9.1.1.20) attribute in the PSE object class. The PSE also copies the value of the aMirroredDLLPDRequestedPowerValue (30.9.1.1.18) attribute in the PSE object class to the aDLLPDRequestedPowerValueEcho (30.9.1.1.19) attribute in the PSE object class.' to read

'The PSE responds to the PD's request by copying the value of the aMirroredDLLPDRequestedPowerValue (30.9.1.1.18) attribute in the PSE object class to the aDLLPDRequestedPowerValueEcho (30.9.1.1.19) attribute in the PSE object class. If the request is accepted the aDLLPSEAllocatedPowerValue (30.9.1.1.20) attribute in the PSE object class will be changed although it should be noted that this value can change at any time by the PSE to change the power allocated to the PD.'

Response ACCE		Response Status C		
CI 33	SC 33.6.2.1	P 98	L 25	# 225
Law, David		3Com		
A	T			

Comment Type T Comment Status A

Should define what the reserved values are so that they can be used in the future if required - reserved bits are usually defined as 'Write as zero, ignore on read' hence this reserved bits should be 'Transmit as zero, ignore on receive'.

SuggestedRemedy

Change 'Reserved' to read 'Transmit as zero, ignore on receive' in the 'Value/meaning' column for bits 3:2 of Table 33-23.

Response Response Status C

ACCEPT.

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

Comment ID # 225

Page 57 of 86 3/12/2009 2:49:19 PM

C/ 33 SC 33.6.4	P100	L 7	# 226	CI 33	SC 33.6.4	P100	L 23	# 228
Law, David	3Com			Law, David		3Com		
Comment Type T	Comment Status A			Comment T	/pe TR	Comment Status A		
Table 33-26, the aD provides the PD price	iority' TLV variable marked as R LLPDPowerPriority attribute in th rity assigned by the PSE and it	ne oPSE manag would seem rea	ed object class sonable to	howeve	it actually only	e 'DTE Power via MDI TLV to y provides the mapping from t e Clause 30 PD attributes.		
communicate this to aMirroredDLLPower	the PD since the PD is required	to mirror this va	alue back in the	SuggestedF	emedy			
SuggestedRemedy	D' to read 'aDLLPDPowerPriority	<i>"</i> .		cross-re 'Clause	ferences' and 30 attribute' co	Table 33-27 to read 'PD object reverse the order of the secor plumn is the second column at	nd and third colu nd the 'TLV varia	mns so that the able' is the third.
Response ACCEPT.	Response Status C			the is si	nilar to the exi is TLV variable	ed 'DTE Power via MDI TLV t sting Table 33-26, the first col and the third is 'Clause 30 at	umn is the 'TLV	name' column, the
C/ 33 SC 33.6.4	P100	L11	# 227		able Clause 3	0 attribute		
Law, David	3Com					0LLPowerType dDLLPowerSource		
however it actually c	the 'DTE Power via MDI TLV to nly provides the mapping from t .V to the Clause 30 PSE attribut	he Clause 30 P			ocated power v	alue aMirroredDLLPDReques alue aMirroredDLLPSEAlloca <i>Response Status</i> C		Echo
	of Table 33-26 to read 'PSE obje es' and reverse the order of the			C/ 33	SC 33.6.4	P100	L 30	# 229
	column is the second column ar			Law, David		3Com		
	titled 'DTE Power via MDI TLV to existing Table 33-26, the first col			Comment T	/pe TR	Comment Status A		161
second is TLV varia columns are:	ble and the third is 'Clause 30 at					1 PSE to support Data Link I relation to pse_dll_ready.	_ayer classificati	on however that is no
TLV variable Clause power type aMirrore				SuggestedF	emedy			
power source aMirro	predDLLPowerSource predDLLPowerPriority					e 1 PSE shall send' to read n shall send'.	A Type 1 PSE	that implements Data
	value aMirroredDLLPDReques		- ch c	Response		Response Status C		
Response	r value aMirroredDLLPSEAlloca	learowervalue	ECHO	ACCEP	Т.			
ACCEPT.	Response Status C							
AUGEF I.								

/ 33 SC 33.6.6.3	P102	L 33	# 230	C/ 33	SC 33.6.6.	3 P103	L11	# 232
aw, David	3Com			Law, David		3Com		
omment Type T Comment	Status A			Comment T	/ре Т	Comment Status		
The local_system_change variable is variable that indicates that the local so locRequestedPowerValue.' yet the variable that the local so locRequestedPowerValue.'	ystem wants to	o change the		system	in any way th	se the terminology 'system at meets the externally ob s for this variable are not o	servable behavior re	
anywhere else in the draft. The variable local system change is	used both in t	he PSE and PD s	ate diagrams a desire	SuggestedF	lemedy			
in the local system to change the pow PD, in a PD to indicate that it wishes	ver allocation,	in a PSE to chang	e the allocation to the		control varial	e is updated by the PSE s ble that indicates that the		
uggestedRemedy					value definiti	ions:		
An implementation specific control va change the allocated power value. In	a PSE this inc	licates it is going t	o change the power			a Link Layer classification ver classification has comp		itialization.
allocated to the PD. In a PD this indic the PSE.	ates it is going	g to request a new	power allocation from	Response		Response Status C		
Values: FALSE: The local system doe TRUE: The local system wants to cha			er allocation.	ACCEP	Τ.			
esponse Response S	Status C			C/ 01	SC 1.4	P 17	L 47	# 233
ACCEPT.				Patoka, Mar	tin	Texas Ir	struments	
				Comment T	/pe G	Comment Status A		
33 SC 33.6.6.3	P102	L 53	# 231	Definitio	n of a type 2	PD seems weak		
aw, David	3Com			SuggestedF	emedy			
omment Type T Comment 5 We generally don't use the terminolog system in any way that meets the extr	gy 'system soft			event cl		Class 4 signature during and is capable of DLL clas 33.)		ification, understands 2
In addition the values for this variable	are not define	ed.		Response		Response Status C		
uggestedRemedy				ACCEP	Т.			
Change 'This variable is updated by t specific control variable that indicates classification.'. Add the value definitions:				<i>CI</i> 01 Patoka, Mar	SC 1.4 tin	P 17 Texas Ir	L 50 Istruments	# 234
Values : FALSE: Data Link Layer class TRUE: Data Link Layer classification			lization.	Comment T		Comment Status R PSE seems weak		
esponse Response S	Status C			SuggestedF				
ACCEPT.				A PSE t	hat supports	2-event hardware classified of can provide up to 36W.		
				Response REJEC		Response Status C		

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

Comment ID # 234

Page 59 of 86 3/12/2009 2:49:19 PM

Cl 33 SC 33. Patoka, Martin	1.4.2 P38 Texas Instrur	L19 ments	# 235	Cl 33 SC 33.2.6 Patoka, Martin	P 53 Texas Instru	L1 ments	# 238
Comment Type T Clarify that the im	R Comment Status A nbalance is intra-pair		TEZ	Comment Type E Sections 33.2.5 - 33.	Comment Status A 2.7.3 all seem to be a part of t	he detection requ	EZ irements of 33.2.5
	lance is a measure of the difference a 100 Ohm balanced cabling syste <i>Response Status</i> C		o conductors of a	SuggestedRemedy Number these sectio Response ACCEPT.	ns as a part of the detection s Response Status C	ection, 33.2.5.x	
C/ 33 SC 33. Patoka, Martin	2 P38 Texas Instrur	L 32	# 236	<i>Cl</i> 33 SC 33.2.6. Patoka, Martin	I P53 Texas Instru	L 53 ments	# 239
Comment Type E				Comment Type TR The settling toleranc difference between F	Comment Status D e of 1% in the note should be SE accept and PD accept is 0	reduced to <0.3%).76% on the high	PSE for interopability. The limit.
SuggestedRemedy The PSE is the p	ortion of the endpoint or midspan			SuggestedRemedy Change tolerance to		J. J	
Response REJECT.	Response Status C			Proposed Response REJECT.	Response Status Z		
MAC frames tran of the LAN, an er	stem attached to a LAN that is an i smitted across that LAN. A Netwo nd station; a MAC Bridge, in its role s not an end station. , Clause 43.)	k layer router is,	from the perspective	This comment was V See 44.	/ITHDRAWN by the comment	er.	
Endpoint by itself is the initial defini	is not defined, only Endpoint PSE ition of a PSE.	. End Station is t	he proper term as this		t reached its final value can sine measurement accuracy (V,		te results that have a
C/ 33 SC 33. Patoka, Martin	2.4.6 P49 Texas Instrur	L 14 ments	# 237				
Comment Type T do_short_detect t overload	R Comment Status A function defined itself as an overlo	ad, looks to be a	<i>pics</i> cut-n-paste from				
	ects a PSE short circuits condition	as current above	llimmin for TLIM				
<u>,</u>							
SuggestedRemedy This function dete Response ACCEPT IN PRIN	Response Status C NCIPLE.						
This function dete Response	, -						

3/12/2009 2:49:20 PM

	.7.1	P 55	L 7	# 240		CI 33	SC 33.2.6	1	P 54	L 33	# 242
Patoka, Martin	Те	exas Instrum	nents			Patoka, Mar	in		Texas Instru	ments	
Comment Type TR Rgood and Cgood		tus A			PSE		5. Vos and	los are not de		is only useful for e 2005, they are	ioff PSE design. los is not necessary
SuggestedRemedy								liley have bee		e 2005, they are	not necessary.
	d is calculated in the s d from the port R - C ch			equation 33-7, and	d		os to Table 3	3-4, add comi los from Table		accommodate a	PD with rectifier offset
Response	Response State	us C				Proposed R	. ,		e Status Z		
ACCEPT IN PRIN						REJECT	•	Respons			
Formula 33-7 is de On page 53, line 5						This cor	nment was \	VITHDRAWN	by the commente	er.	
	2.6.1 is calculated from	two voltage	e/current measu	irements made du	iring	Deview	d without		and Vois to to "	offling	
R = (V2 - V1)/(I2 -	11) (33-?)								and Yair to talk	offline. d provide little be	nofit
respectively	first and second voltag	-				The spe Interope	cification wil rability is ma	be easier to unintained beca	understand if the use a PSE shall	se terms are elim provide Vvalid w	ninated.
R is the effective re	rst and second current esistance. Note that a nts and the port R - C o	attached PI of	capacitance ma			This wo	ks because	the PSE provi		s voltage range. /os and supplies and takes into a	
these measuremer		0						·			
						its bias	equirements	for the opera	ting voltage rang	je.	
See 243.		P55	L3	# 241		Rdetect	is a dynami	resistance. S	ome PSE detect	tion circuits use a	a current source.
See 243.	.7.1	P 55 exas Instrum	L3 nents	# 241		Rdetect This req The min	is a dynami uires a PD t mum value	resistance. S provide a va could be inter	ome PSE detect id signature at a preted to be the l		a current source. ent.
See 243. C/ 33 SC 33.2. Patoka, Martin Comment Type TR	7.1 Te Comment Stat	exas Instrum	-	# 241	open	Rdetect This req The min I believe and this	is a dynami uires a PD t mum value a value of t provides mo	c resistance. S o provide a va could be inter 0 uA would w ore PD design	ome PSE detect id signature at a preted to be the l ork with all devic margin.	tion circuits use a reasonable curro PSE los of 12 uA	a current source. ent.
See 243. Cl 33 SC 33.2. Patoka, Martin Comment Type TR Vos and los are no	7.1 Te Comment Stat	exas Instrum	-	# 241	open	Rdetect This req The min I believe and this Delete a	is a dynami uires a PD t mum value a value of t provides mo Il references	c resistance. S o provide a va could be inter 0 uA would w ore PD design to PSE and F	ome PSE detect id signature at a preted to be the l ork with all devic margin. 2D Vos and los.	tion circuits use a reasonable curro PSE los of 12 uA	a current source. ent.
See 243. Cl 33 SC 33.2. Patoka, Martin Comment Type TR Vos and los are no SuggestedRemedy	7.1 Te <i>Comment Stat</i> ot defined	exas Instrum	-	# <u>241</u>	open	Rdetect This req The min I believe and this Delete a Remove	is a dynami uires a PD t mum value a value of t provides mo ll references Figure 33-1	c resistance. S o provide a va could be inter 0 uA would w ore PD design to PSE and F 9 and referen	ome PSE detect id signature at a preted to be the l ork with all devic margin. 2D Vos and los. ces to it.	tion circuits use a reasonable curro PSE los of 12 uA es I am aware of	a current source. ent.
See 243. C/ 33 SC 33.2 . Patoka, Martin Comment Type TR Vos and los are no SuggestedRemedy Remove these term	7.1 Te <i>Comment Stat</i> ot defined ms	exas Instrum tus D	-	# 241	open	Rdetect This req The min I believe and this Delete a Remove Add par minimur	is a dynami uires a PD t mum value a value of t provides mo ll references Figure 33-1 ameter Ivalio n current is	c resistance. S o provide a va could be inter 0 uA would w ore PD design to PSE and F 9 and referen 1 to Table 33-1 2 uA.	ome PSE detect id signature at a preted to be the l ork with all devic margin. 2D Vos and los. ces to it. 4 with the same	tion circuits use a reasonable curro PSE los of 12 uA es I am aware of conditions as tha	a current source. ent.
See 243. C/ 33 SC 33.2 . Patoka, Martin Comment Type TR Vos and los are no SuggestedRemedy Remove these term	7.1 Te <i>Comment Stat</i> ot defined	exas Instrum tus D	-	# <u>241</u>	open	Rdetect This req The min I believe and this Delete a Remove Add par minimur Add a se	is a dynami uires a PD t mum value a value of t provides mo ll references Figure 33-1 ameter Ivalio n current is	c resistance. S o provide a va could be inter 0 uA would w ore PD design to PSE and F 9 and referen 1 to Table 33-1 2 uA.	ome PSE detect id signature at a preted to be the l ork with all devic margin. 2D Vos and los. ces to it. 4 with the same	tion circuits use a reasonable curro PSE los of 12 uA es I am aware of conditions as tha	a current source. ent.
See 243. Cl 33 SC 33.2. Patoka, Martin Comment Type TR Vos and los are no SuggestedRemedy Remove these term Proposed Response REJECT.	7.1 Te <i>Comment Stat</i> ot defined ms	exas Instrum tus D tus Z	nents	# <u>241</u>	open	Rdetect This req The min I believe and this Delete a Remove Add par minimur Add a sy sunk by	is a dynami uires a PD t mum value a value of s provides mo Il references Figure 33-1 ameter Ivalid o current is intence to p the PD PI."	c resistance. S o provide a va could be inter 0 uA would w ore PD design to PSE and F 9 and reference to Table 33-1 2 uA. age 73, line 35	ome PSE detect id signature at a preted to be the l ork with all devic margin. 2D Vos and los. ces to it. 4 with the same	tion circuits use a reasonable curre PSE los of 12 uA es I am aware of conditions as that result when at lea	a current source. ent.
See 243. 27 33 SC 33.2. Patoka, Martin Comment Type TR Vos and los are no SuggestedRemedy Remove these term Proposed Response REJECT.	7.1 Te Comment Stat ot defined ms Response State	exas Instrum tus D tus Z	nents	# <u>241</u>	open	Rdetect This req The min I believe and this Delete a Remove Add par minimur Add a so sunk by The Edi	is a dynamiu uires a PD t mum value a value of s provides mo ll references Figure 33-1 ameter Ivalia a current is not current is not current op the PD PI."	c resistance. S o provide a va could be interp 0 uA would w ore PD design to PSE and F 9 and referent 1 to Table 33-1 2 uA. age 73, line 38 the their discret	ome PSE detect id signature at a preted to be the l ork with all devic margin. 2D Vos and los. ces to it. 4 with the same 5, "Rdetect shall	tion circuits use a reasonable curre PSE los of 12 uA es I am aware of conditions as the result when at lea	a current source. ent.
See 243. Cl 33 SC 33.2. Patoka, Martin Comment Type TR Vos and los are no SuggestedRemedy Remove these term Proposed Response REJECT.	7.1 Te Comment Stat ot defined ms Response State	exas Instrum tus D tus Z	nents	# 241	open	Rdetect This req The min I believe and this Delete a Remove Add par minimur Add a so sunk by The Edi	is a dynamiu uires a PD t mum value a value of s provides mo ll references Figure 33-1 ameter Ivalia a current is not current is not current op the PD PI."	c resistance. S o provide a va could be interp 0 uA would w ore PD design to PSE and F 9 and referent 1 to Table 33-1 2 uA. age 73, line 38 the their discret	ome PSE detect id signature at a preted to be the l pork with all device margin. 2D Vos and los. ces to it. 4 with the same 5, "Rdetect shall ion to cleanup te	tion circuits use a reasonable curre PSE los of 12 uA es I am aware of conditions as the result when at lea	a current source. ent.

Comment ID # 242

Page 61 of 86 3/12/2009 2:49:20 PM

CI 33 SC 33.2.5 P52 L43 # 243 Patoka, Martin Texas Instruments	CI 33 SC 33.2.9.6 P62 L44 # 245 Patoka, Martin Texas Instruments
Comment Type E Comment Status A pics The PSE measures the link segment (per 33.2.7.1), however the text states is is measuring the PD. the PSE measures the link segment (per 33.2.7.1), however the text states is is measuring the PD. the PSE measures the link segment (per 33.2.7.1), however the text states is is measuring the PD.	Comment Type TR Comment Status A pic. item a) is somewhat contradicted (in current required) by items c) - e) SuggestedRemedy
SuggestedRemedy Add a sentence similar to "The PSE PI is connected to a PD through a link segment, however in the following sections, the link is not called out to preserve clarity." Response Response Status C ACCEPT IN PRINCIPLE.	Change a) to "During POWER_UP, the IInrush requirement applies for duration TInrush." Response Response Status C ACCEPT IN PRINCIPLE. OBE 57.
Add sentences after line 44, "The PSE PI is connected to a PD through a link segment. In the following sections the link is not called out to preserve clarity."	C/ 33 SC 33.2.9.8 P65 L16 # 246 Patoka, Martin Texas Instruments Texas Instruments Texas Instruments
 Additional input from the commentor The PSE is connected to a link section, which may or not have a terminating PD. P55L3 says this. However, P52L43 states that the PSE is powering a PD - yes but when connected through a link segment. This follows through the next paragraph. Also at P53L4. My suggestion was to introduce the concept that the PSE sees maybe a cable & maybe a PD, but the PD always through a cable. Then when the rest of sections refer only to PD, it will be implicitly stated that it is through the link segment. end 	Tlimmin does not agree with T33-11 SuggestedRemedy TOVLDmin Proposed Response Response Status Z REJECT. This comment was WITHDRAWN by the commenter. TLIM is not equal to TOVLD for Type 2 PSEs.
C/33 SC 33.2.9.2 P61 L49 # 244 Patoka, Martin Texas Instruments	What is the concern here?
Comment Type TR Comment Status A pics Imin2 definition is unclear, it appears in 6 locations. SuggestedRemedy It might be that this s/b Imin per Table 33-11 item 18, however it must be clarified. Response Response Status C ACCEPT IN PRINCIPLE. C C C C	Cl 33 SC 33.3.1 P 69 L 42 # 247 Patoka, Martin Texas Instruments Texas Instruments Comment Type TR Comment Status R Information in the note is critical to maintain interoperability with the PSE devices specified. SuggestedRemedy Remove the text "Note-" making it clear this is a requirement. Although the text is clear in this, the "Note" might be confusing.
OBE 149.	Response Response Status U REJECT. Discussed and could not come to consensus. Default action is to reject.

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 # 247

Page 62 of 86 3/12/2009 2:49:20 PM

Comment Type TR Comment Status A PSE Rbad and Cbad are not defined SuggestedRemedy Add a note: "Rbad is calculated in the same manner as Rdetect in equation 33-7, and Cbad is extracted from the port R - C charge characteristics." Table 33-14: I offsett is not measurable, has not been defined since 2003, and is unnecessary since the PD may not source current. Response Response Status C ACCEPT IN PRINCIPLE. Cl 33 SC 33.3.4 P74 L12 # 249 Patoka, Martin Texas Instruments I Comment Type TR Comment Status C Comment Type TR Comment Status A I Comment Status C Definition of loftsett is unusable since the "corner" of the V-I slope is soft, and some current can be theoretically and practically expected all the way to 0V. SuggestedRemedy Cl 33 SC 33.3.1 P77 L48 # 25 SuggestedRemedy Show Voffsett as the projected line intercept and delete loffsett Cl 33 SC 33.3.7.1 P77 L48 # 25	50	# 250	L 51	P 73 Texas Instrum		33.3.4		C/ 33 Patoka M		# 248	L16	P55 Texas Instrum		33.2.7.2	3 3 S atoka, Martin
Rbad and Cbad are not defined Table 33-14: I offsetI is not measurable, has not been defined since 2003, and is unnecessary since the PD may not source current. SuggestedRemedy Add a note: "Rbad is calculated in the same manner as Rdetect in equation 33-7, and Cbad is extracted from the port R - C charge characteristics." Table 33-14: I offsetI is not measurable, has not been defined since 2003, and is unnecessary since the PD may not source current. Response Response Status C AcCEPT IN PRINCIPLE. OBE 240 I table 33-14: I offsetI is not measurable, has not been defined since 2003, and is unnecessary since the PD may not source current. OBE 240 I table 33-14: I offsetI is not measurable, has not been defined since 2003, and is unnecessary since the PD may not source current. OBE 240 I table 33-14: I offsetI is not measurable, has not been defined since 2003, and is unnecessary since the PD may not source current. Coll 33 S 23.3.1 PT4 L12 # [249 Patoka, Marin Texas Instruments Comment Type TR Comment Status A infinition of loffsetI is unusable since the "corner" of the V-I slope is soft, and some current 20 Revert Figure 33-19 to 802.3af figure 33-19 to 802.3af figure 33-2.20 (also found in 802.3-2008). Status Parameter ToffsetI is unusable since the projected line intercept and delete loffsetI Response Response Status A OBE 250 Sastrup may not occur until Vons, seplication					•			,	505		1115		0		
Add a note: "Rbad is calculated in the same manner as Rdetect in equation 33-7, and Cbad is extracted from the port R - C charge characteristics." SuggestedRemedy Response Response Status C ACCEPT IN PRINCIPLE. C Cl 33 SC 33.3.4 P74 L12 # [249] Patoka, Martin Texas Instruments Comment Status A ioffset Comment Type TR Comment of the V-I slope is soft, and some current can be theoretically expected all the way to 0V. SuggestedRemedy 2) Revert Figure 33-19 to 802.3af figure 33C.20 to IPD, VPD SuggestedRemedy Show Voffsett as the projected line intercept and delete loffsett Camber 10 km method Cl 33 SC 33.3.7.1 P77 L48 # [25] OBE 250 Cept IN PRINCIPLE. Comment Type T Comment Status A Statup may not occur until Von, so application of Vport_PD min is a contradictor SuggestedRemedy Starup begins upon application of Vport above Von, and subsequently VPort_PD Starup begins upon application of Vport above Von, and subsequently VPort_PD OBE 250 Response Status C ACCEPT IN PRINCIPLE. Response Response Status C ACCEPT IN PRINCIPLE. OBE 250 Starup begins upon application of Vport above Von, and subsequently VPort_PD Starup	ioffs	2003, and is	n defined since 2	able, has not bee	not measura	I offsett is	33-14: I	Table	PSE			nent Status A		bad are no	Rbad and (
ACCEPT IN PRINCIPLE. OBE 240 C/ 33 SC 33.3.4 P74 L12 # 249 Patoka, Martin Texas Instruments Comment Type TR Comment Status A infised Definition of loffsett is unusable since the "corner" of the V-I slope is soft, and some current can be theoretically and practically expected all the way to OV. SuggestedRemedy Show Voffsett as the projected line intercept and delete loffsett Response Response Status C ACCEPT IN PRINCIPLE. OBE 250 DEFINICIPLE. OBE 250 ACCEPT IN PRINCIPLE. DEFINICIPLE. DEFINICIPLE. Comment Type T Comment Status A Startup Projens upon application of Vport_PD min is a contradiction SuggestedRemedy Show Voffsett as the projected line intercept and delete loffsett Response Response Status C ACCEPT IN PRINCIPLE. OBE 250 Change Y and X axis of 33.2-2a.doc" for further clarification. C/ 33 SC 33.3.7.1 P77 L48 # 25 Patoka, Martin Texas Instruments Comment Type T Comment Status A Startup may not occur until Von, so application of Vport_PD min is a contradiction SuggestedRemedy Startup Degins upon application of Vport above Von, and subsequently VPort_PD defined in Table 33-18 Response Response Status C ACCEPT IN PRINCIPLE. Replace lines 47-50 p. 77 with the following text: 33.3.7.1 Input Voltage					ent.	-			d Cbad	uation 33-7, and				"Rbad is c	Add a note
OBE 240 Cl 33 SC 33.3.4 P74 L12 # 249 Patoka, Martin Texas Instruments foffset 10 change Parameter "loffset" to "Voltage at the PI", Minimum = 2.7V, Condition: 124uA" Comment Type TR Comment Status A ioffset Definition of loffsett is unusable since the "commer" of the V-I slope is soft, and some current can be theoretically and practically expected all the way to 0V. ioffset SuggestedRemedy Show Volfsett as the projected line intercept and delete loffsett Response Response Status C ACCEPT IN PRINCIPLE. OBE 250 Comment Type T Comment Status A Startup may not occur until Von, so application of Vport_PD min is a contradictor SuggestedRemedy Startup may not occur until Von, so application of Vport_PD min is a contradictor SuggestedRemedy OBE 250 Startup may not application of Vport above Von, and subsequently VPort_PD defined in Table 33-18				e Status C	Response		,	Response				nse Status C	Respo		esponse
Cl 33 SC 33.3.4 P74 L12 # 249 Patoka, Martin Texas Instruments Texas Instruments 1) Change Parameter "loffset" to "Voltage at the PI", Minimum = 2.7V, Condition: Comment Type TR Comment Status A ioffset Definition of loffsett is unusable since the "corner" of the V-I slope is soft, and some current can be theoretically and practically expected all the way to 0V. 2) Revert Figure 33-19 to 802.3af figure 33C.20 (also found in 802.3-2008). Change Y and X axis of 33C.20 to IPD, VPD Startup Bagense Response Status C C/ 33 SC 33.3.7.1 P77 L48 # 25 OBE 250 Startup PRINCIPLE. OBE 250 Comment Status A Startup begins upon application of Vport above Von, and subsequently VPort_PD min is a contradictor SuggestedRemedy Startup begins upon application of Vport above Von, and subsequently VPort_PD min is a C OBE 250 Cameent Type T Comment Status A Startup begins upon application of Vport above Von, and subsequently VPort_PD defined in Table 3318 Response Response Response Status C ACCEPT IN PRINCIPLE. OBE 250 Startup begins upon application of Vport above Von, and subsequently VPort_PD defined in Table 3318					, E.	PRINCIPLE	PT IN P	ACCE					LE.	PRINCIPI	ACCEPT II
Cl 33 SC 33.3.4 P74 L12 # 249 Patoka, Martin Texas Instruments ioffset Comment Type TR Comment Status A ioffset Definition of loffsett is unusable since the "corner" of the V-I slope is soft, and some current can be theoretically and practically expected all the way to 0V. ioffset 2) Revert Figure 33-19 to 802.3af figure 33C.20 (also found in 802.3-2008). Change Y and X axis of 33C.20 to IPD, VPD SuggestedRemedy Show Voffsett as the projected line intercept and delete loffsett ee "Section 33_3_5_2a.doc" for further clarification. Cl 33 SC 33.3.7.1 P77 L48 # 25 OBE 250 Comment Type T Comment Status A Startup begins upon application of Vport above Von, and subsequently VPort_PD min is a contradiction SuggestedRemedy Startup begins upon application of Vport above Von, and subsequently VPort_PD defined in Table 33-18 Response Response Status C ACCEPT IN PRINCIPLE. Replace lines 47-50 p. 77 with the following text: 33.3.7.1 Input Voltage	io "loort	V. Conditions is	Minimum 071	altage at the DI"											OBE 240
Comment Type TR Comment Status A ioffset Definition of loftsett is unusable since the "corner" of the V-I slope is soft, and some current can be theoretically and practically expected all the way to 0V. 2) Revert Figure 33-19 to 802.3af figure 33C.20 (also found in 802.3-2008). SuggestedRemedy Show Voffsett as the projected line intercept and delete loffsett C/ 33 SC 33.3.7.1 P77 L48 # [25] Response Response Status C C////////////////////////////////////	is iport =	V, Condition: Is	winimum = 2.7 v	oltage at the Pr',	ionset to vo	arameter i				# 249	L12	P 74		33.3.4	5/ 33 S
Comment Type TR Comment Status A ioffset Definition of loffsett is unusable since the "corner" of the V-I slope is soft, and some current can be theoretically and practically expected all the way to 0V. see "Section 33_3_5_2a.doc" for further clarification. SuggestedRemedy sow Volfsett as the projected line intercept and delete loffsett C/ 33 SC 33.3.7.1 P77 L48 # [25] Response Response Status C Comment Type T Comment Status A OBE 250 Startup PRINCIPLE. Startup begins upon application of Vport above Von, and subsequently VPort_PD defined in Table 3318 Response Response Status C ACCEPT IN PRINCIPLE. Response Status C ACCEPT IN PRINCIPLE. Response Status C OBE 250 Startup begins upon application of Vport above Von, and subsequently VPort_PD defined in Table 3318 Response Response Status C ACCEPT IN PRINCIPLE. Replace lines 47-50 p. 77 with the following text: 33.3.7.1 Input Voltage S3.3.7.1 Input Voltage		-2008).	o found in 802.3-	oure 33C.20 (als	to 802.3af fig	ure 33-19 t	vert Fiau	2) Re			ents	Texas Instrur			atoka, Martin
can be theoretically and practically expected all the way to 0V. SuggestedRemedy Show Voffsett as the projected line intercept and delete loffsett Response Response Status C ACCEPT IN PRINCIPLE. OBE 250 Cl 33 SC 33.3.7.1 P77 L48 # 25 Patoka, Martin Texas Instruments Comment Type T Comment Status A Startup may not occur until Von, so application of Vport_PD min is a contradiction SuggestedRemedy Startup begins upon application of Vport above Von, and subsequently VPort_PD defined in Table 3318 Response Response Status C ACCEPT IN PRINCIPLE. Replace lines 47-50 p. 77 with the following text: 33.3.7.1 Input Voltage										oft. and some c	he V-I slope is :				
Show Voffset as the projected line intercept and delete loffsett Patoka, Martin Texas Instruments Response Response Status C ACCEPT IN PRINCIPLE. Comment Type T OBE 250 Startup may not occur until Von, so application of Vport_PD min is a contradiction Startup begins upon application of Vport above Von, and subsequently VPort_PD defined in Table 3318 Response Response Status C ACCEPT IN PRINCIPLE. Comment Type Comment Status ACCEPT IN PRINCIPLE. Startup begins upon application of Vport above Von, and subsequently VPort_PD defined in Table 3318 Response Response Status C ACCEPT IN PRINCIPLE. Replace lines 47-50 p. 77 with the following text: 33.3.7.1 Input Voltage Startup Voltage			-	rther clarification	a.doc" for fur	33_3_5_2a	Section 3	see "							
Show Voffsett as the projected line intercept and delete loffsett Response Response Status C C ACCEPT IN PRINCIPLE. OBE 250 C <p< td=""><td>51</td><td># 251</td><td>L48</td><td>P77</td><td></td><td>33.3.7.1</td><td>SC :</td><td>C/ 33</td><td></td><td></td><td></td><td></td><td></td><td>edy</td><td>uggestedRen</td></p<>	51	# 251	L 48	P 77		33.3.7.1	SC :	C/ 33						edy	uggestedRen
ACCEPT IN PRINCIPLE. OBE 250 SuggestedRemedy Startup begins upon application of Vport above Von, and subsequently VPort_PD defined in Table 3318 Response Response Status C ACCEPT IN PRINCIPLE. Replace lines 47-50 p. 77 with the following text: 33.3.7.1 Input Voltage			ients	Texas Instrum							te loffsett	ine intercept and de	projected li	ett as the p	Show Voffs
OBE 250 SuggestedRemedy Startup begins upon application of Vport above Von, and subsequently VPort_PD defined in Table 3318 Response Response Status ACCEPT IN PRINCIPLE. Replace lines 47-50 p. 77 with the following text: 33.3.7.1 Input Voltage	PD Startu	I		nt Status A	Comment	т	Type	Comment				nse Status C	Respo		lesponse
Startup begins upon application of Vport above Von, and subsequently VPort_PD defined in Table 3318 Response Response Status ACCEPT IN PRINCIPLE. Replace lines 47-50 p. 77 with the following text: 33.3.7.1 Input Voltage	n.	contradiction.	port_PD min is a	application of Vp	until Von, so a	not occur u	p may n	Startu					LE.	PRINCIPI	ACCEPT II
defined in Table 3318 <i>Response</i> Response Status C ACCEPT IN PRINCIPLE. Replace lines 47-50 p. 77 with the following text: 33.3.7.1 Input Voltage						dy	dRemed	Suggeste							OBE 250
ACCEPT IN PRINCIPLE. Replace lines 47-50 p. 77 with the following text: 33.3.7.1 Input Voltage) as	itly VPort_PD a	, and subsequent	Vport above Von											
Replace lines 47-50 p. 77 with the following text: 33.3.7.1 Input Voltage				e Status C	Response		•	Response							
33.3.7.1 Input Voltage					E.	PRINCIPLE	PT IN P	ACCE							
				ollowing text:	77 with the fo	s 47-50 p. 7	ce lines	Repla							
The specification for VPort PD in Table 33–18 is for the input voltage range after						t Voltage	'.1 Input	33.3.							
(see 33.3.7.3), and accounts for loss in the cabling plant. Note, VPort_PD = VPSE – (RChan × IPort).	[.] startup	e range after s		s in the cabling p	ounts for loss), and acco	3.3.7.3)	(see 3							

C/ 33 SC 33.6.6.6		L 27	# 252	CI :		33.2.4.7	P 52	L13	# 253	
aw, David	3Com				David		3Com			
REQUEST' can be co system is write only so should have read as f Since the transition be UCT the state 'PD PO moved to 'MIRROR U SuggestedRemedy Delete the 'PD POWE	etween the states 'PD POWER WER REQUEST' is redundan	thdraw it - unfortu now I have subr REQUEST' and t and the action i ne assignment	unately the myBallo nitted it. The comm 'MIRROR UPDAT n that state can be	ot nent E' is	power_app to the MONI 21.5.1 'Actic state block of one is satisf While the st mplicitly rep So the do_o never again rue it will no also true for The simples	lied = false), TOR_OVLD ons inside sta one time, the ied, at which ate awaits ful oeat.'. verload_dete - hence shou to be detected the Short sta t fix, assumir red, is to defi	Comment Status A ram is held in the IDLE_OV the moment power is appli state when the do_overload the blocks' which states 'After state block then continuous point control passes throug filment of one of its exit con ect function is called once a uld an overload occur some d - this doesn't appear to be ate diagram. Ing the timers that these two ne ovld_detected and shor	ed (power_applied d_detect function er performing all t sly evaluates its e gh a transition arr nditions, the action (fter power_applied time after power e the intended be o state diagrams to	ed = true) it transi is called once - s the actions listed exit conditions un ow to the next blo ons inside do not ed becomes true r_applied become haviour. The sam	ition see in a ntil ock. then es ne is ure no
				Suc	gestedReme	0				
					2] Delete th 3] Define ov ovld_detecto A variable ir 33.2.9.7) for Values: TRU FALSE: The short_detect A variable ir Values: TRU	e do_overloa /Id_detected ed: idicating if the at least Tovi JE: The PSE PSE has no PSE has no ted: idicating if the JE: The PSE	and Short state diagrams. ad_detect and do_short_der and short_detected as vari e PSE output current has b ld of a one second sliding ti has detected an overload of t detected a qualified overlo e PSE output current is in a has detected a current limit t detected a qualified curre	ables een in an overloa ime. condition. oad condition. a short circuit con it condition.	dition (see 33.2.9	
				Res	oonse		Response Status C			
					ACCEPT IN	PRINCIPLE				
					This remove	es two simple	state diagrams and provid	es the intended f	unctionality.	
					2] Delete th	e do_overloa	and Short state diagrams. ad_detect and do_short_de and short_detected as vari			
					33.2.9.7) for √alues: TRL	dicating if the at least Tovi JE: The PSE	e PSE output current has b d of a one second sliding ti has detected an overload t detected a qualified overlo	me. condition.	ad condition (see	

Comment ID # 253

Page 64 of 86 3/12/2009 2:49:20 PM

sliding window (see 33. Values: TRUE: The PS	E has detected a current limi	t condition.		C/ 30 Law, Davi <i>Comment</i>		22 P 29 3Com Comment Status A	L11	# 256
FALSE: The PSE has r	not detected a qualified curre	nt limit condition	# 254	This a		returns the response time	of the local syste	em' however does
.aw, David	3Com			Suggeste	dRemedy			
Comment Type T	Comment Status A			Speci	fy the time units (used for this attribute.		
The package that aPDF SuggestedRemedy	ReducedOperationPowerValu	ue is in is not ma	rked.	Response ACCE	PT IN PRINCIPL	Response Status C E.		
Add an 'X' in the PD Ba aPDReducedOperation	asic Package (mandatory) co PowerValue.	lumn for the attri	bute	Use s	econds			
Response ACCEPT.	Response Status C			<i>Cl</i> 33 Law, Davi	SC 33.6.2 d	Р 97 3Com	L 22	# 257
7 30 SC 30.9.1.1.1 aw, David comment Type T	12 P26 3Com Comment Status A	L 48	# 255	chang	hat IEEE P802.3 jed to make IEEE	Comment Status A oc is in sponsor ballot, and th P802.3at approval continge should be re-written to be a	nt on IEEE P802.	.3bc, the changes
	D managed object classes co MirroredDLLPowerType whic			Suggester Provid	<i>dRemedy</i> de a set of chang	es for Clause 79.		
	ibutes - they seem redundan class and PD for the oPD ma				EPT IN PRINCIPL	Response Status C E. cense to make changes requ	ested	
Response ACCEPT IN PRINCIPL	Response Status C E.				 3bc is currently in	n working group ballot, howe itorial instructions for an exis	ver, the comment	
indicate PSE"	The second bit indicates PSE he second bit indicates PSE			produ	ce a set of editor	802.3at and the Editor-in-Ch al instructions that can be pr cussing this comment.		
update PICS according	lly.							

<i>CI</i> 30 Law, David	SC 30.2.3	Р 22 3Com	L 3	# 258	C/ 33 Nadeau,		33.8.3.1		P113	L12	# 260	
from the	02.3bc define DTE and Rep	Comment Status A s a entirely relationship diagra beater system entity relationshi than defining a new TLV, IEE	nip diagrams curr	ects that is separate rently found in IEEE	're	sing PICS sistance	unbalance	t. Necessary	t Status A due to the addi or less.' Page		3.1.4.2 and the text	TEZ
Power vi SuggestedRe		should extent the current MI	B defined for that	t TLV.	Add		m Feature	Subclause V		Status Support	COM3 Resistance	
move the	em to a modifi	P related attributes from the o cation to the IEEE P802.3bc ystemsGroup managed object	defined oLldpXdd		Respons				Status C			
Response	T IN PRINCIPI	Response Status W			This	used to I	be PSEES	2, which wa	s dropped in D3.	2.		
					C/ 33	SC	33.8.3.2		P113	L 44	# 261	
LLDP rel changes	lated PSE attr	nt PD attributes to be the PD I ibutes to be the PSE LLDP o with IEEE P802.3bc D2.0. P113		er related editorial	nt Nadeau, Comme	Gerard <i>nt Type</i> sing PICS	G S statemen	t. Necessary	t Status A due to the addi		3.2.4.6 and the text 'A	¥
LLDP rel	lated PSE attr to coordinate SC 33.8.3.1	ibutes to be the PSE LLDP o with IEEE P802.3bc D2.0.	bjects. Make oth		nt Nadeau, Commen Miss Type	Gerard nt Type sing PICS e 2 PSE s	G S statemen shall assign	t. Necessary	t Status A		3.2.4.6 and the text 'A	ł
LLDP rel changes Cl 33 Nadeau, Ger Comment Ty Update F	SC 33.8.3.1 rard ppe G PICS COM2 fr	ibutes to be the PSE LLDP o with IEEE P802.3bc D2.0.	bjects. Make oth	er related editorial # 259	nt Nadeau, Commen Miss Type Suggest TEZ Inse Sup	Gerard <i>nt Type</i> sing PICS 2 PSE s <i>edRemed</i> rt PICS a	G Statemen shall assign dy and renumb 10 Mutual	t. Necessary n a value of per according	t <i>Status</i> A due to the addi 2'' Page 49, lii gly Item Feature	ne 34.	ie/Comment Status	Ą
LLDP rel changes Cl 33 Nadeau, Ger Comment Ty Update F resistanc	lated PSE attr s to coordinate SC 33.8.3.1 rard /pe G PICS COM2 fr ce shall be 25	ibutes to be the PSE LLDP o with IEEE P802.3bc D2.0. P113 Comment Status A rom 'shall' statement in 33.1.4	bjects. Make oth	er related editorial # 259	nt Nadeau, Commen Miss Type Suggest TEZ Inse Sup	Gerard <i>nt Type</i> sing PICS 2 PSE s <i>edRemed</i> rt PICS a port PSE parameter	G Statemen shall assign dy and renumb 10 Mutual	t. Necessary n a value of per according identification	t <i>Status</i> A due to the addi 2'' Page 49, lii gly Item Feature	ne 34. Subclause Valu	ie/Comment Status	Ą
LLDP rel changes Cl 33 Nadeau, Ger Comment Ty Update F resistant SuggestedRe Update F resistant	lated PSE attr s to coordinate SC 33.8.3.1 rard /pe G PICS COM2 fr ce shall be 25 remedy PICS COM2 '\	ibutes to be the PSE LLDP o with IEEE P802.3bc D2.0. P113 Comment Status A rom 'shall' statement in 33.1.4 ohms or less.' /alue/Comment' to reflect upon ress. Requirement satisfied to	bjects. Make oth L12 .1, page 38, line dated text in 33.1	# 259 4: 'DC loop 4.1 New text: 'DC lo	nt Nadeau, Commen Miss Typ Suggest TEZ Inse Sup set_ Respons	Gerard <i>nt Type</i> sing PICS 2 PSE s <i>edRemed</i> rt PICS a port PSE parameter se CEPT IN F	G S statemen shall assign dy and renumb 10 Mutual er_type PRINCIPLE	t. Necessary n a value of ber according identification <i>Response</i> E.	t Status A due to the addi 2'' Page 49, lii gly Item Feature 33.2.4.6 Assign	ne 34. Subclause Valu n a value 2 M Ye	ie/Comment Status	A

C/ 33 SC 33.8.3.2 P113 L46 # 262	C/ 33 SC 33.8.3.2 P114 L7 # 264
Comment Type G Comment Status A Missing PICS statement. Necessary due to the addition of clause 33.2.4.6 and the text 'the PSE shall meet the PI electrical requirements' Page 49, line 37.	Comment Type G Comment Status A The text on page 42 line 43 in 33.2.6 has been deleted from draft 3.0. 'The PSE shall exhibit Thevenin equivalence to one of the detection circuits shown in Figure 33-12 or
SuggestedRemedy	Figure 33-13 in all detection states.' Therefore PICS PSE17 is now invalid.
Insert PICS and renumber accordingly Item Feature Subclause Value/Comment Status Support PSE11 Type 2 PSE PI electrical 33.2.4.6 Meet Type 1 PSE PSET2:M Yes[] requirements when powering requirements or N/A[] Type 1 PD Type 2 PSE for Iport_max,	SuggestedRemedy Delete PICS statement PSE17 and renumber.
ILIM, TLIM and PType	Response Response Status C
Response Response Status C	ACCEPT.
ACCEPT IN PRINCIPLE. Insert new PICS in 33.8.3.2 and renumber as appropriate:	C/ 33 SC 33.8.3.2 P114 L 32 # 265
PSE#; Type 2 PSE PI electrical requirements; 33.2.4.6; Meet Type 1 PSE requirements when powering Type 1 PD or Type 2 PSE requirements for IPort_max, ILIM, TLIM, and PType; PSET2:M; Yes[] N/A[]	Comment Type G Comment Status A B Value/Comment Field: missing the '1' for 'Type 1 PSE'. SuggestedRemedy B
C/ 33 SC 33.8.3.2 P113 L50 # 263	Add the '1' Response Response Status C
ladeau, Gerard	ACCEPT.
Comment Type G Comment Status A Missing PICS statement. Necessary due to the additional text 'The PSE shall present a non-valid PD detection signature' Page 53, line 3.	Cl 33 SC 33.2.8 P56 L49 # 266
SuggestedRemedy	Nadeau, Gerard
Insert PICS and renumber accordingly Item Feature Subclause Value/Comment Status Support PSE_X Non-Valid Detection 33.2.6 As defined in Table M Yes[] signature 33-15 when probed by another PSE.	Comment Type G Comment Status A Missing 'shall'. Text has been changed from draft 3.0 D3.0 text: Subsequent to successful detection, all Type 2 PSEs shall perform classification. D3.3 text: Subsequent to successful detection, all Type 2 PSEs perform classification using at least one of the following:
Response Response Status C	SuggestedRemedy
ACCEPT IN PRINCIPLE.	Insert 'shall'all Type 2 PSEs shall perform classification using If 'shall' is not inserted delete PICS PSE26 and renumber.
PSE#; Non-valid detection signature; 33.2.6; As defined in Table 33-15 when probed by another PSE; M; Yes[]	Response Response Status C ACCEPT IN PRINCIPLE.
	The behavior is captured in the Table 33-8 and in shalls in other spots (for example: P56, L42).

Page 67 of 86 3/12/2009 2:49:20 PM

C/ 33 SC 33.8.3.2 Nadeau, Gerard	P 114	L 37	# 267	C/ 33 Nadeau, G	SC 33.8.3.2 erard	P 115	L 6	# 269
be updated. SuggestedRemedy Update Value/Commen	Comment Status A line 27 has changed from dra t field in PSE27 to: 'Return to rence in PICS PSE27 to 33.2. Response Status C	IDLE state or a	PICS PSE27 needs to	Text: a treats comple <i>Suggested</i> Delete	a 33.2.8.1, page a Type 2 PSE sl the PD as a Typ ete. <i>IRemedy</i> PICS PSE34 o	Comment Status A 57, line 46 has changed from hall assume it is powering a Ty be 2 PD but may provide Class r Update the text in 33.2.8.1 to urrent PICS PSE34 in the draf	ype 2 PD. D 3.1 s 0 power until r o say 'a Type 2 l	Text: a Type 2 PSE nutual identification is
C/ 33 SC 33.8.3.2 Nadeau, Gerard Comment Type G	P114 Comment Status A It PSE27. Text in 33.2.8, page	L 39	# 268		PT IN PRINCIP PSE34 SC 33.8.3.2		L10	# 270
3.0 therefore another Pl SuggestedRemedy	nt PSE27, default classficatio	current 'Default	classification' feature.	Nadeau, G <i>Comment</i> Text ir	Type G	Comment Status A 57, line 48 has changed from	D3.0. PICS PS	7 E35 needs updating.
accordingly Item Featur	e Subclause Value/Comment turn to IDLE state PSET2:M N Response Status C	t Status Suppor		Suggested Update Iclass	Remedy e Value/Comme is greater than	nt field in PSE35 to: Return to or equal to IClass_LIM.		
Insert new PICS after P	 SE27 and renumber as appro ation; 33.2.8; Return to IDLE s		: Yes[] N/A[]	Response ACCE		Response Status C		

C/ 33 SC 33.8.3.2 P115 Nadeau, Gerard	L12	# 271	C/ 33 Nadeau, G	SC 33.8.3.2	P 115	L 5 1	# 273
Comment Type G Comment Status A Text in 33.2.8.1, page 57, line 48 has changed from D3.0 the current PSE35. SuggestedRemedy Insert PICS (after current PSE35) and renumber accordi Value/Comment Status Support PSE_X Classification de PSET2:M Yes[] for 1-Event Physical Layer N/A[] classific Response Response Status C ACCEPT IN PRINCIPLE. Insert new PICS after PSE35 and renumber as appropria PSE#; Classification default for 1-Event Physical Layer of IDLE state; PSET2:M; Yes[] N/A[]	ngly Item Feature efault 33.2.8.1 Re cation	e Subclause eturn to IDLE state	result o min be Suggested Insert Value/ 2EPLC Response ACCE Insert	a 33.2.8.2, page of this text. ' it sh fore starting a n <i>IRemedy</i> PICS (after curre Comment Status C:M Yes[] PI Volt PT IN PRINCIPI new PICS after I	Comment Status A 58, line37, has been chan hall maintain the PI voltage ew detection cycle.' ent PSE51) and renumber s Support PSE_X Return t tage of at least TReset N// <i>Response Status</i> C LE. PSE51 and renumber as a state PI voltage; 33.2.8.2;	accordingly Item F accordingly Item F to IDLE State 33.2. A[]	eriod of at least TReset Feature Subclause 8.2 Vreset for a period
Cl 33 SC 33.8.3.2 P115 Nadeau, Gerard Comment Type G Comment Status A Text in 33.2.8.2, page 58, line 30, has changed from dra updating. SuggestedRemedy Change Value/Comment field in PICS PSD46 to the folloc IClass is greater than or equal to IClass_LIM.' Response Response Status C ACCEPT. Comment Status C			Cl 33 Nadeau, G Comment Text h a Type result Suggested Delete Response ACCE	Type G as changed from 2 PSE powers PICS PSE53 is i <i>IRemedy</i> PICS PSE53 an PICS PSE53 an	P116 Comment Status A n D3.0 to D3.3 in 33.2.9, p a Type 1 PD, the PSE sha not needed. nd renumber accordingly Response Status C	all meet the electric	al requirements' As a
					navior has been moved to	33.2.4.6 (See 262)	

	3.8.3.2	P 116	L10	# 275	C/ 33	SC 33.8.3.2	P116	L 40	# 278	
Nadeau, Gerard					Nadeau, C	Serard				
	G	Comment Status A			Comment	51	Comment Status A			ΕZ
		03.0 to D3.3 in 33.2.9.1, pag			Equat	ion number has	changed to 33-5 for IPSEUT in	n 33.2.9.8		
PSE55 is not ne		ial shall be measured betwe	en any conducto	Jr As a result PICS	Suggeste	dRemedy				
SuggestedRemedy					Updat	e equation numl	per in PICS PSE64 to 33-5.			
		renumber accordingly			Response	,	Response Status C			
Response		Response Status C			ACCE	PT.				
ACCEPT.					Editor	to research why	v these references did not auto	o-update.		
C/ 33 SC 33	3.8.3.2	P116	L 30	# 276	C/ 33	SC 33.8.3.2	P116	L 40	# 279	
Nadeau, Gerard		-			Nadeau, C	Gerard				
Comment Type	G	Comment Status A		TEZ	Comment	Type G	Comment Status A			ΕZ
3.0: 'the minimu	um value f	, line 19, has been deleted f for IPort_max in Table 33-9	rom draft 3.0. D shall be (PPort /	eleted text from Draft VPort).' PICS PSE61		e number has ch s an update	anged in the text, 33.2.9.8, pa	ge 64, figure 33	-15. PICS PSE64	
is no longer val	id.				Suggeste	dRemedy				
SuggestedRemedy					Chan	ge figure numbe	r in PICS PSE64 to 33-15.			
Delete PICS PS	SE61				Response	•	Response Status C			
Response		Response Status C			ACCE	PT.				
ACCEPT.					01.00		D440	154	" 222	
	3.8.3.2	P116	L 33	# 277	C/ 33 Nadeau, (SC 33.8.3.2 Gerard	P 116	L 54	# 280	
Nadeau, Gerard					Comment	Type G	Comment Status A			TEZ
	G er in 33.2	Comment Status A .9.5, page 62, line 25 has ch	anged from dra	<i>EZ</i> ft 3.0.			e to the new text in 33.2.9.12, equirements of 25.4.4a in the			İ
SuggestedRemedy					Suggeste	dRemedy				
Change equation	on numbe	r in the Value/Comment field	d for PICS PSE	62 to 33-3.			ent PSE69) and renumber acc			
Response		Response Status C					s Support PSE_X Current unb 2:M Yes[] type 2 PSE 25.4.4a			
ACCEPT.					Response	,	Response Status C			
					ACCE	PT IN PRINCIP	LE.			
					Insert	new PICS after	PSE69 and renumber as appr	opriate:		
							nce for Type 2 Endpoint PSE; f (lunb/2); PSET2:M; Yes[] N/		t requirements of	

Page 70 of 86 3/12/2009 2:49:20 PM

C/ 33 SC 33.8.3.2 P117 L3 # 281	C/ 33 SC 33.8.3.2 P117 L24 # 284 Nadeau, Gerard	
Comment Type G Comment Status A TOff in Value/Comment field in PICS PSE70 is incorrect, it should be Tpon. See text in 33.2.9.13, page 66, line 3.	TEZ Comment Type G Comment Status A Text in 33.2.11.1.2, page 67, line 6 has changed from D3.0, PICS PSE77 requires upd SuggestedRemedy	TE2 lating.
SuggestedRemedy Change TOff to Tpon.	Replace Value/Comment field with the following: 'IPort is greater than or equal to IMin for a minimum of TMPS as specified in Table 33-11.'	max
Response Response Status C ACCEPT.	Response Response Status C ACCEPT.	
C/ 33 SC 33.8.3.2 P117 L17 # 282 Nadeau, Gerard	C/ 33 SC 33.8.3.2 P117 L 26 # 285 Nadeau, Gerard	
Comment Type G Comment Status R Insert PICS after PSE72 Text in 33.2.11.1, page 66, line 40 added since last PICS revi 'The PSE shall monitor either the DC MPS component, the AC MPS component, or bo		TE2 lating.
SuggestedRemedy Insert PICS (after current PSE72) and renumber accordingly Item Feature Subclause	Replace Value/Comment field with the following: 'IPort is less than or equal to IMin mir specified in Table 33-11.'	ı as
Value/Comment Status Support PSE_X MPS monitoring 33.2.11.1 DC MPS or AC MP Yes[] requirement components or both	Response Response Status C	
	ACCEPT.	
Yes[] requirement components or both Response Response Status C	ACCEPT.	
Yes[] requirement components or both Response Response Status C REJECT. This behavior is captured by PSE major capability PICS "DC" and "AC" on page 112. C/ 33 SC 33.8.3.2 P117 L24 # 283 Nadeau, Gerard Value of the second seco	Response Response Status C ACCEPT.	
Yes[] requirement components or both Response Response Status C REJECT. This behavior is captured by PSE major capability PICS "DC" and "AC" on page 112. Cl 33 SC 33.8.3.2 P117 L24 Adeau, Gerard Comment Type G Comment Type G Comment Status A Line 24 and Line 26. The terms IMin2 and IMin1 are used throughout the text however IMin is defined in Table 33-11. I beleive these are editorial errors. SuggestedRemedy	Response Response Status C ACCEPT. ACCEPT. Cl 33 SC 33.8.3.2 P118 L 20 # 286 Nadeau, Gerard Comment Type G Comment Status A Need to insert a PICS for current unbalance requirements for PD due to the new text in 33.3.2, page 70, line 10. 'Type 2 PDs shall meet the requirements of 25.4.4a in the presence of (lunb / 2).'	
Yes[] requirement components or both Response Response Status REJECT. This behavior is captured by PSE major capability PICS "DC" and "AC" on page 112. CI 33 SC 33.8.3.2 P117 L24 Vadeau, Gerard Comment Type G Comment Type G Comment Status A Line 24 and Line 26. The terms IMin2 and IMin1 are used throughout the text however IMin is defined in Table 33-11. I beleive these are editorial errors. SuggestedRemedy Search doucment and replace all instances if IMin1 and IMin2 with Imin. Response Response Status	Response Response Status C ACCEPT.	ייייי ו
Yes[] requirement components or both Response Response Status C REJECT. This behavior is captured by PSE major capability PICS "DC" and "AC" on page 112. CI 33 SC 33.8.3.2 P117 L24 Vadeau, Gerard Comment Type G Comment Status A Line 24 and Line 26. The terms IMin2 and IMin1 are used throughout the text however IMin is defined in Table 33-11. I beleive these are editorial errors. SuggestedRemedy Search doucment and replace all instances if IMin1 and IMin2 with Imin.	Response Response Status C ACCEPT.	n nts of

CI 33	SC 33.8.3.2	P 118	L 26	# 287	C/ 33 SC 33.8.3.2 P119	L12 # 290
Nadeau, Ge	erard				Nadeau, Gerard	
Comment T	ype G	Comment Status A			Comment Type G Comment Status A	
		ted. The text from D3.0, 33.3.			Text in 33.3.5.2.1 has changed, need to update PICS P	D20 to reflect the change in text.
	via the PI.'	08 no longer valid. 'while it i	is in a state wher	e it will not accept	SuggestedRemedy	
SuggestedR	Remedy				Replace PICS PD20 fields as follows: Feature: Mark ev signature Value/Comment: Draw IMark (defined in Table	
Delete F	PICS PD8.				detection signature (defined in Table 33-15).	e 53-17) and present a non-valid
Response		Response Status C			Response Response Status C	
ACCEP	T.				ACCEPT.	
CI 33	SC 33.8.3.2	P118	L 41	# 288	C/ 33 SC 33.8.3.2 P119	L 19 # 291
Nadeau, Ge	erard				Nadeau, Gerard	
Comment T	ype G	Comment Status A			Comment Type G Comment Status A	TE
		oved from text, 33.3.5, page 7 or remove the PICS stateme		r the word 'shall' is	The text supporting PICS PD22 has been removed sinc Text in D3.0, 33.3.5.2.2, page 65, line 3: 'A PD implement	
					reset its pse_power_type state variable to 1 when the ve	oltage at the PI is less than or equal
SuggestedF	Remedy	n 33.3.5, page 74, line 44. 'Ty		nplement both'	reset its pse_power_type state variable to 1 when the vertex to VReset max as defined in Table 33-16.	oltage at the PI is less than or equal
SuggestedF Insert th	Remedy			nplement both'	reset its pse_power_type state variable to 1 when the ve	oltage at the PI is less than or equal
SuggestedR Insert th Response	Remedy	n 33.3.5, page 74, line 44. 'Ty Response Status C		nplement both'	reset its pse_power_type state variable to 1 when the verto VReset max as defined in Table 33-16.' SuggestedRemedy Delete PICS PD20 and renumber.	oltage at the PI is less than or equal
SuggestedR Insert th Response ACCEP The sha	Remedy ne word 'shall' ir PT IN PRINCIPL all was removed	n 33.3.5, page 74, line 44. 'Ty <i>Response Status</i> C .E. I from the text because it is re	rpe 2 PDs shall ir edundant to the re	equirement expressed	reset its pse_power_type state variable to 1 when the vertex to VReset max as defined in Table 33-16.' SuggestedRemedy	oltage at the PI is less than or equal
SuggestedR Insert th Response ACCEP The sha by PICS	Remedy he word 'shall' ir PT IN PRINCIPL all was removed S PD12. There i	n 33.3.5, page 74, line 44. 'Ty Response Status C E.	rpe 2 PDs shall ir edundant to the re tation for a Type	equirement expressed 2 PD: one which	reset its pse_power_type state variable to 1 when the verto VReset max as defined in Table 33-16.' SuggestedRemedy Delete PICS PD20 and renumber. Response Response Status C	oltage at the PI is less than or equal
SuggestedR Insert th Response ACCEP The sha by PICS	Remedy he word 'shall' in PT IN PRINCIPL all was removed S PD12. There i ents both 2-Eve	n 33.3.5, page 74, line 44. 'Ty <i>Response Status</i> C .E. I from the text because it is re s only one acceptable permu	rpe 2 PDs shall ir edundant to the re tation for a Type	equirement expressed 2 PD: one which	reset its pse_power_type state variable to 1 when the verto VReset max as defined in Table 33-16.' SuggestedRemedy Delete PICS PD20 and renumber. Response Response Status C ACCEPT IN PRINCIPLE.	oltage at the PI is less than or equal
SuggestedR Insert th Response ACCEP The sha by PICS impleme	Remedy he word 'shall' in PT IN PRINCIPL all was removed S PD12. There i ents both 2-Eve PD13. SC 33.8.3.2	n 33.3.5, page 74, line 44. 'Ty <i>Response Status</i> C .E. I from the text because it is re s only one acceptable permu	rpe 2 PDs shall ir edundant to the re tation for a Type	equirement expressed 2 PD: one which	reset its pse_power_type state variable to 1 when the verto VReset max as defined in Table 33-16.' SuggestedRemedy Delete PICS PD20 and renumber. Response Response Status C ACCEPT IN PRINCIPLE. This behavior is captured in the state diagram, which its	oltage at the PI is less than or equal
SuggestedR Insert th Response ACCEP The sha by PICS impleme Delete F Cl 33 Nadeau, Ge Comment T	Remedy he word 'shall' in PT IN PRINCIPL all was removed S PD12. There is ents both 2-Eve PD13. SC 33.8.3.2 erard Sype G	n 33.3.5, page 74, line 44. 'Ty <i>Response Status</i> C .E. If from the text because it is re s only one acceptable permu ent class signature and Data I	rpe 2 PDs shall in edundant to the re tation for a Type ink Layer classif	equirement expressed 2 PD: one which fication. # 289 EZ	reset its pse_power_type state variable to 1 when the verto VReset max as defined in Table 33-16.' SuggestedRemedy Delete PICS PD20 and renumber. Response Response Status C ACCEPT IN PRINCIPLE. This behavior is captured in the state diagram, which its Delete PICS PD22. Cl 33 SC 33.8.3.2 P119	elf is covered by PICS PD6.
SuggestedR Insert th Response ACCEP The sha by PICS impleme Delete F C/ 33 Nadeau, Ge Comment T Table re SuggestedR	Remedy he word 'shall' in PT IN PRINCIPL all was removed S PD12. There is ents both 2-Eve PD13. SC 33.8.3.2 erard Sype G eference in PICS Remedy	a 33.3.5, page 74, line 44. 'Ty <i>Response Status</i> C E. If from the text because it is re- s only one acceptable permu- ent class signature and Data I <i>P</i> 119 <i>Comment Status</i> A	rpe 2 PDs shall in edundant to the ri tation for a Type Link Layer classif	equirement expressed 2 PD: one which fication. # 289 EZ	reset its pse_power_type state variable to 1 when the verto VReset max as defined in Table 33-16.' SuggestedRemedy Delete PICS PD20 and renumber. Response Response Status C ACCEPT IN PRINCIPLE. This behavior is captured in the state diagram, which its Delete PICS PD22. C/ 33 SC 33.8.3.2 P119 Nadeau, Gerard Comment Type G Comment Status A	elf is covered by PICS PD6.

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 33.8.3	.2 P119	L 43	# 293	C/ 33	SC 33.8	.3.2	P 120	L12	# 296	
Nadeau, Gerard				Nadeau, (Gerard					
Comment Type G Text has changed fr	Comment Status A om D3.0 making PICS PD30 inv	valid. Text from D	3.0, 33.3.7.2, page 67,	Comment PICS	21		<i>iomment Status</i> A and the status A	in the text.		EZ
input power average	the PICS: 'The specification for ad over 1 second.' Current text in ent. Either delete the PICS state	n 33.3.7.2, page	78, line 6 does not	Suggeste Chan	-	ne 12 to 33	-9 Change 33-9 on line	e 14 to 33-10		
SuggestedRemedy Delete PICS PD30.				Response ACCE		Res	sponse Status C			
Response ACCEPT.	Response Status C			<i>CI</i> 33 Nadeau, (SC 33.8 Gerard	.3.2	P120	L 22	# 297	
C/ 33 SC 33.8.3	.2 P119	L 53	# 294	Comment	Type G	Co	omment Status A			TEZ
PICS PD32.	Comment Status A ge 78, line 33 references 'Tdelay	/ min', not 'TInrus	<i>TEZ</i> h max' as stated in the	page 33.2.9 <i>Suggeste</i>	69, line 37: " 9.9 and Figu	The PD sha e 33-14, du	has been deleted from I all operate below the "P uring transient conditior	D upperbound to	emplate," defined i	
SuggestedRemedy				Response			ananaa Statua C			
Change 'TInrush ma	ax' to 'Tdelay min' in the Value/C	comment field of I	PICS PD32.	ACCE		Res	sponse Status C			
Response	Response Status C				_1 1.					
ACCEPT.				C/ 33	SC 33.8	.3.2	P 120	L 25	# 298	
C/ 33 SC 33.8.3	.2 P120	L7	# 295	Nadeau, (Gerard					
Nadeau, Gerard				Comment	Type G	Cc	omment Status A			TEZ
	Comment Status A 33.3.7.3 from D3.0. D3.0 text: /			to D3	.3. Updateing		sublcause 33.3.7.6 has re field in PICS PD41 n			
	ion, the peak current shall not ex uty cycle maximum. D3.3 text: A			Suggeste	-	11 'Epoture	e' field as follows: 'Beha	vior during trans	ionts at the DSE D	P
PD operating condit	ion, the peak power shall not ex % duty cycle maximum.			Response	9		sponse Status C			
SuggestedRemedy				ACCE	EPT.					
Change PICS PD34	as follows: Change the 'Feature 'Not to exceed PClass_PD may	e' field to: 'Peak p x for more than 5	oower' Change the 0 ms max and 5 %							
Response	Response Status C									

ACCEPT.

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

Comment ID # 298

C/ 33 SC 33.8.3.2 Nadeau, Gerard	P121	L 47	# 299		C/ 33 Nadeau, G	SC 33.8.3.4 Gerard	Р	L	# 302
	Comment Status A for 10Mb/s PHYs the text in 3 o 100 MHz, not 20 MHz as sta			<i>TEZ</i> to	Comment Insert Suggestee	PICS due to ne	Comment Status A w text in 33.4.8, page 88, line 1	1.	TE
SuggestedRemedy Change 20 Mhz to 100	0MHz in PICS EL13.				Chanr	nel unbalance 3	EL20. Item Feature Subclause 3.4.8 Meet requirements of M Not PSE and PDs (lunb/2) that s	es[] current for	Type 2 clause 25 in
Response ACCEPT.	Response Status C				Response ACCE	PT IN PRINCIP	Response Status C LE.		
C/ 33 SC 33.8.3.2 Nadeau, Gerard	P122	L10	# 300				EL20 and renumber as approp nce; 33.4.8; 100BASE-TX Type		Es and Type 2 PDs
Comment Type G	Comment Status A						Clause 25 in presence of (lunk		
	EL15 has been struck since D common-mode AC voltage sh PIs.'				CI 33 Nadeau, G	SC 33.8.3.5 Gerard	P123	L 36	# 303
SuggestedRemedy Delete PICS EL15.						<i></i>	Comment Status A n number have changed in the update.	text, 33.4.9.2, p	E age 91, line 23. PICS
Response ACCEPT.	Response Status C				Suggested	Remedy			
C/ 33 SC 33.8.3.2	P122	L 48	# 301		expres		13 Value/Comment field as fol 33-19 from 0.1 MHz to 1 MHz t pins'		
Nadeau, Gerard Comment Type G Insert PICS due to new	Comment Status A w text in 33.4.8, page 87, line s	51.		TEZ	Response ACCE		Response Status C		
SuggestedRemedy					C/ 33	SC 33.8.3.5	P123	L 41	# 304
	PSEEL3 and renumber. Item I L_X Channel unbalance 33.4.8				Nadeau, G	Gerard			
	Type 1 lunb. M N/A[] Midspans				Comment	<i></i>	Comment Status A		E
Response	Response Status C						eference 33.4.9.2.1, page 91, li EL14 needs to be updated.	ne 29 has chan	ged from D3.0
ACCEPT IN PRINCIP	LE.				Suggested	Remedy			
Insert new PICS after	PSEEL3 and renumber as app	propriate:			Repla	ce existing PSE	EL14 fields as follows: Subclau	use: 33.4.9.2.1	Status: MIDA:M
	palance for Alternative A Midsp qual to Type 1 lunb; MIDA:M;		upport 100BASE-TX	(;	Response ACCE		Response Status C		

C/ 33 SC 33.8.3.5 P123 L40 # 305 Nadeau, Gerard	C/ 33 SC 33.8.3.5 P122 L46 # 307 Nadeau, Gerard
Comment Type G Comment Status A TEZ Insert PICS statement. Additional text in 33.4.9.2, page 91, line 29 defines another PICS. SuggestedRemedy Insert new PICS after existing PSEEL13 and renumber. Item Feature Subclause Value/Comment Status Support PSEEL_X Alternative A Midspan 33.4.9.2 Between 0 mA and MIDA:M Yes[] DC bias current (Ibias) (lunb / 2) mA defined N/A[] in Table 33-11 Response Response Status C ACCEPT IN PRINCIPLE. Insert new PICS after PSEEL13 and renumber as appropriate: PSEEL#; Alternative A Midspan PSE DC bias current (Ibias); 33.4.9.2; Between 0 mA and (lunb/2) mA; MIDA:M; Yes[] N/A[]	Comment Type G Comment Status A Insert a PICS specific to the PSE to be consistent with a similar PICS specific to the PD (PDEL1). SuggestedRemedy Insert new PICS after existing PSEEL2 and renumber. Item Feature Subclause Value/Comment Status Support PSEEL_X PSE common-mode test 33.4.4 The PIs that require M Yes[] requirement power shall be N/A[] terminated as illustrated in Figure 33-24 Response Response Status C ACCEPT IN PRINCIPLE. Insert new PICS after PSEEL2 and renumber as appropriate: PSEEL#; PSE common-mode test requirement; 33.4.4; The PIs that require power
C/ 33 SC 33.8.3.5 P123 L44 # 306 Iadeau, Gerard Iadeau Comment Status A TEZ	terminated as illustrated in Figure 33-24; M; Yes[] C/ 33 SC 33.8.3.7 P124 L2 # 308 Nadeau, Gerard
Comment Type G Comment Status A TEZ Insert PICS: 33.4.9.2.1, page 91, line 38 defines another PICS. Insert PICS statement. SuggestedRemedy Insert new PICS after existing PSEEL14 and renumber. Item Feature Subclause Value/Comment Status Support PSEEL_X Alternative A Midspan 33.4.9.2.1 From output MIDA:M Yes[] transfer funcion termination to the N/A[] measurement Midspan PSE input Response Response Status C ACCEPT IN PRINCIPLE. C	Comment Type G Comment Status A Subclauses 33.8.3.7 and 33.8.3.8 are not in sequence with the rest of the PICS in relation to the clause numbers they reference (33.7). Suggest they be moved to follow 33.8.3.10 which reference 33.6 and renumber the clauses as necessary. SuggestedRemedy Move 33.8.3.7 and 33.8.3.8 in order after 33.8.3.10 and renumber. 33.8.3.9 becomes 33.8.3.7 Management function requirements 33.8.3.10 becomes 33.8.3.8 Data Link Layer classification requirements 33.8.3.7 becomes 33.8.3.9 Environmental spec to PSEs and PDs 33.8.3.8 becomes 33.8.3.10 Evironmental spec to the PSE
Insert new PICS after PSEEL14 and renumber as appropriate: PSEEL#; Alternative A Midspan PSE transfer function measurement; 33.4.9.2.1; From output termination to the Midspan PSE input; MIDA:M; Yes[] N/A[]	Response Response Status C ACCEPT IN PRINCIPLE. Move 33.8.3.7 and 33.8.3.8 in order after 33.8.3.10 and renumber as appropriate.

to update PICS MF20. 33.7.2). Ne SuggestedRemedy 33.7.2). Ne Change the 'Feature' to read: 'Reserved bits (12.15:14)' SuggestedRemedy Response Response Status C ACCEPT. ACCEPT. Cl 33 SC 33.8.3.9 P126 L15 # [310] Nadeau, Gerard Comment Type G Comment Status A EZ Subclause reference is incorrect and the state name is not quite correct. Update. SuggestedRemedy Nadeau, Gerard SuggestedRemedy Change the fields in MF27 as follows. Sublcause: 33.5.1.2.6 Value/Comment: Replace SuggestedReme PICS DLL8 defines the Response Status C Response ACCEPT. Cl 33 SC 33.8.3.10 P127 L8 # [311]	y text in curren edy S DLL4, DLL 33.8.3.10 G	Comment Status A 4, DLL5 and DLL6 has been int draft 33.6.1 and 33.6.2 ca 5 and DLL6 and renumber. Response Status C P127 Comment Status A		
Subclause 33.5.1.2.1 now reserves 2 bits instead of 1 bit (change from D3.0 to D3.3). Need to update PICS MF20. Text suppoor 33.7.2). Need to update PICS MF20. SuggestedRemedy Change the 'Feature' to read: 'Reserved bits (12.15:14)' SuggestedRemedy Change the 'Feature' to read: 'Reserved bits (12.15:14)' Response Response Status C ACCEPT.	ring PICS DLL y text in current edy SS DLL4, DLL S 33.8.3.10 G	L4, DLL5 and DLL6 has been the draft 33.6.1 and 33.6.2 can be and DLL6 and renumber. <i>Response Status</i> C P127	annot define the	e D3.0 (33.7.1 and current PICS. Delete
SuggestedRemedy SuggestedRemedy Change the 'Feature' to read: 'Reserved bits (12.15:14)' SuggestedRem Response Response Status C ACCEPT.	S DLL4, DLL	Response Status C	L 29	# [313
Response Response Status C ACCEPT.	S DLL4, DLL	Response Status C	L 29	# [313
Response Response Status C ACCEPT.	33.8.3.10 G	Response Status C	L 29	# [313
ACCEPT. ACCEPT. Cl 33 SC 33.8.3.9 P126 L15 # 310 Cl 33 SC Nadeau, Gerard Comment Type G Comment Status A EZ Cl 33 Subclause reference is incorrect and the state name is not quite correct. Update. EZ Nadeau, Gerard Nadeau, Gerard Comment Type G Comment Status A EZ Comment Type Comment Type PICS DLL8 defines the PICS DLL8 defines the SuggestedRemedy Change the fields in MF27 as follows. Sublcause: 33.5.1.2.6 Value/Comment: Replace PICS DLL8 defines the SuggestedReme Comment Type Change Value/Comment: Replace SuggestedReme Change Value/Comment: Replace SuggestedReme Change Value/Comment: Replace Change Value/Comment: Replace Change Value/Comment: Replace SuggestedReme Change Value/Comment: Replace Change Value/Comment: Replace Change Value/Comment: Replace Change Value/Comment: Cl 33 SC 33.8.3.10 P127 L8 # 311 Cl 33 SC 33.8.3.10 Cl 33 SC 33 SC 33.8.3.10 SC 33	G	P 127	L 29	# [313
Nadeau, Gerard C/ 33 Su Comment Type G Comment Status A EZ Nadeau, Gerard Subclause reference is incorrect and the state name is not quite correct. Update. EZ Nadeau, Gerard Comment Type G Comment Type SuggestedRemedy Change the fields in MF27 as follows. Sublcause: 33.5.1.2.6 Value/Comment: Replace PICS DLL8 defines the ERROR_DELAY with ERROR_DELAY_SHORT C ACCEPT. Change Va ACCEPT. ACCEPT. ACCEPT. ACCEPT. C/ 33 SC 33.8.3.10 P127 L8 # [311 Nadeau, Gerard C/ 33 Su Comment Type G Comment Status A	G		L 29	# 313
Comment Type G Comment Status A EZ Nadeau, Gerard Subclause reference is incorrect and the state name is not quite correct. Update. SuggestedRemedy PICS DLL8 SuggestedRemedy Change the fields in MF27 as follows. Sublcause: 33.5.1.2.6 Value/Comment: Replace PICS DLL8 ERROR_DELAY with ERROR_DELAY_SHORT C SuggestedReme Change Value/Comment: Replace Response Response Status C Response ACCEPT. C/ 33 SC 33.8.3.10 P127 L8 # 311 Nadeau, Gerard C/ 33 SC 33.8.3.10 SuggestedReme Comment Type G Comment Status A		Comment Status A		
Subclause reference is incorrect and the state name is not quite correct. Update. Comment Type SuggestedRemedy Change the fields in MF27 as follows. Sublcause: 33.5.1.2.6 Value/Comment: Replace PICS DLL8 ERROR_DELAY with ERROR_DELAY_SHORT Comment Type SuggestedReme Response Response Status C ACCEPT.		Comment Status A		
Subcladse relevence is incorrect and the state name is not quite contect. Opdate. PICS DLL8 SuggestedRemedy PICS DLL4 Change the fields in MF27 as follows. Sublcause: 33.5.1.2.6 Value/Comment: Replace SuggestedReme ERROR_DELAY with ERROR_DELAY_SHORT SuggestedReme Response Response Status C ACCEPT.				TEZ
Change the fields in MF27 as follows. Sublcause: 33.5.1.2.6 Value/Comment: Replace ERROR_DELAY with ERROR_DELAY_SHORT Response Response Status C ACCEPT. C/ 33 SC 33.8.3.10 P127 L8 # 311 Nadeau, Gerard Comment Type G Comment Status A	Value/Commr	net field requires changing.	Text in 33.6.2.1.	.1, page 98, line 35
ERROR_DELAY with ERROR_DELAY_SHORT SuggestedRem Response Response Status C ACCEPT.	change.	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Response Response Status C Change Val ACCEPT.	edy			
ACCEPT. C/ 33 SC 33.8.3.10 P127 L8 # 311 C/ 33 SC 33.8.3.10 P127 L8 # 311 C/ 33 SC 33.8.3.10 Comment Status A C/ 33 SC 33.8.3.10 Comment Status A C/ 33 SC 33	ue/Comment f	field to read: 'Set according	to Table 33-23.	1
Cl 33 SC 33.8.3.10 P127 L8 # 311 ACCEPT. Nadeau, Gerard Cl 33 String and the status A String and the status A String and the status A		Response Status C		
Nadeau, Gerard Cl 33 Si Comment Type G Comment Status A				
Comment Type G Comment Status A Nadeau, Gerard				
Comment Type G Comment Status A	33.8.3.10	P 127	L 46	# 314
Insert new PICS DI L1 and renumber as necessary. Text in 33.6, page 97, line13 defines a Comment Type				
inder new i nee DEET and tenamber as needebaary. Text in 60.0, page 67, intere defines a	G	Comment Status A		TEZ
new PICS. Value/Com	nent field requ	uires an update. Text in 33.6	5.2.1.3, page 98	, line 52 has changed.
SuggestedRemedy SuggestedRem	edy			
Support DLL1 Reserved fields in 33.6 Contain zero and M Yes[] DTE Power via MDI PD'	ue/Comment f	field to read: 'Set to PD prio	rity PSE advertis	ses to assign to the
reserved fields in N/A[] TLVs received TLVs ignored Response		Response Status C		
Response Response Status C ACCEPT.				
ACCEPT IN PRINCIPLE.				
Insert new PICS at beginning of 33.8.3.10, and renumber as appropriate:				
DLL1; Reserved fields; 33.6; Reserved fields in DTE Power via MDI TLVs are transmitted as zeroes and ignored upon receipt; M; Yes[] N/A[]				

Comment ID # 314

	P127	L 50	# 315	C/ 33	SC 33.8.3.10	P128	L6	# 318
Nadeau, Gerard	, 121	200	# 515	Nadeau,		/ 120	20	
Comment Type G Table number in text ha	Comment Status A as changed to 33-24 (page 99	9).			in 33.6.5 has beer	Comment Status A n changed since D3.0. Delete atements to be defined in ad		
SuggestedRemedy	e in Value/Comment field to 3	3-24		sup	oort DLL15 PICS.			
Response	Response Status C	0 2 1.			edRemedy te PICS DLL15.			
ACCEPT.				Respons		Response Status C		
Cl 33 SC 33.8.3.10	P 127	L 52	# 316		EPT.	Response Status		
Nadeau, Gerard Comment Type G	Comment Status A			C/ 33 TEZ Nadeau.	SC 33.8.3.10 Gerard	P 128	L 6	# 319
	since D3.0, PICS DLL14 no l 3.0 text that supported the PI					Comment Status A		
type/source/priority The	e actual power type/source/pr ce, and priority defined in Ta	iority field shall o		he Inse		nent as a result of the signific	ant changes to t	the text in 33.6.5 since
SuggestedRemedy				Suggest	edRemedy			
Delete current PICS DL	_L14.					CS DLL16 Item Feature Sub DPDU 33.6.5 Within 10 seco		
Response	Response Status C			DLL	C being enabled N	A[] as indicated by the varia	ble pse_dll_enal	obled
ACCEPT.				Respons	e	Response Status C		
C/ 33 SC 33.8.3.10	P 127	L 52	# 317	ACC	EPT IN PRINCIPL	E.		
Nadeau, Gerard				Inse	rt new PICS before	DLL16 and renumber as ap	propriate:	
Comment Type G Insert a new PICS DLL defines the PICS.	Comment Status A 14 after the current DLL13. N	lew text in 33.6.2	2.3, page 99, line 25	clas		PDU; 33.6.5; Transmitted w ing enabled as indicated by		
SuggestedRemedy								
Value/Comment Status	he current DLL13 and renuml Support DLL_X PSE allocate ocated power defined in Tabl	ed power 33.6.2						
Response ACCEPT IN PRINCIPL	Response Status C E.							
Insert new PICS after D	DLL13 and renumber as appro	opriate:						
PSE#; PSE allocated p defined in Table 33-25;	ower value; 33.6.2.3; Contair DLLC:M; Yes[] N/A[]	ns current value	for allocated power a	IS				

Comment ID # 319

Page 77 of 86 3/12/2009 2:49:20 PM

	-
C/ 33 SC 33.8.3.10 P128 L6 # 320	C/ 33 SC 33.8.3.10 P128 L6 # 322
Comment Type G Comment Status A	Comment Type G Comment Status A
Insert new PICS statement as a result of the significant changes to the text in 33.6.5 since	Insert new PICS statement as a result of the significant changes to the text in 33.6.5 since
D3.0. (2 of 5)	D3.0. (4 of 5)
SuggestedRemedy	SuggestedRemedy
Insert before current PICS DLL16 Item Feature Subclause Value/Comment Status Support DLL_X Type 1 PSE LLDPDU 33.6.5 When PSE DLLC engine DLLC:M Yes[] transmission is ready as indicated N/A[] by the variable pse_dll_ready	Insert before current PICS DLL16 Item Feature Subclause Value/Comment Status Support DLL_X PSE transmission 33.6.5 Within 10 seconds DLLC:M Yes[] of an LLDPDU during of receipt of an N/A[] normal operation LLDPDU with a different 'PD requested power value'
Response Response Status C	Response Response Status C
ACCEPT IN PRINCIPLE.	ACCEPT IN PRINCIPLE.
Insert new PICS before current DLL16, and renumber as appropriate:	Insert new PICS before DLL16 and renumber as appropriate:
DLL#; Type 1 PSE LLDPDU; 33.6.5; Transmitted when PSE Data Link Layer classification engine is ready as indicated by the variable pse_dll_ready; DLLC:M; Yes[] N/A[]	DLL#; PD requested power value change; 33.6.5; LLDPDU with updated "PSE allocated power value" sent within 10 seconds; DLLC:M; Yes[] N/A[]
C/ 33 SC 33.8.3.10 P128 L6 # 321	C/ 33 SC 33.8.3.10 P128 L6 # 323
Nadeau, Gerard	Nadeau, Gerard
Comment Type G Comment Status A	Comment Type G Comment Status A
Insert new PICS statement as a result of the significant changes to the text in 33.6.5 since D3.0. (3 of 5)	Insert new PICS statement as a result of the significant changes to the text in 33.6.5 since D3.0. (5 of 5)
SuggestedRemedy	SuggestedRemedy
Insert before current PICS DLL16 Item Feature Subclause Value/Comment Status Support DLL_X Set state variable 33.6.5 Within 5 minutes DLLC:M Yes[] pd_dll_ready of DLLC being enabled N/A[] as indicated by the variable pd_dll_enabled	Insert before current PICS DLL16 Item Feature Subclause Value/Comment Status Support DLL_X PD transmission 33.6.5 Within 10 seconds DLLC:M Yes[] of an LLDPDU during of receipt of an N/A[] normal operation LLDPDU with a different 'PSE allocated power value'
Response Response Status C	Response Response Status C
ACCEPT IN PRINCIPLE.	ACCEPT IN PRINCIPLE.
Insert new PICS before DLL16 and renumber as appropriate:	Insert new PICS before DLL16 and renumber as appropriate:
DLL#; PD DLL ready; 33.6.5; Set state variable pd_dll_ready within 5 minutes of Data Link Layer classification being enabled as indicated by pd_dll_enabled.; DLLC:M; Yes[] N/A[]	DLL#; PSE allocated power value change; 33.6.5; LLDPDU with updated "PD requested power value" sent within 10 seconds; DLLC:M; Yes[] N/A[]

Nadeau, Gerard	P112	L11	# 324	C/ 33 SC McCormack, Me	33.1.4.1 ghan	P38	L 3	# 326
	Comment Status A are the 'Items' *END, *ENDA a eded when drafting the PICS.	ind *ENDB used.	They were most likely		it submitted wit	Comment Status R h the file 31532100024-0		
	ND, *ENDA and *ENDB			SuggestedReme	edy	ine "Type 2 operation rec		
Response ACCEPT.	Response Status C			Response REJECT.	F	Response Status C	·	
C/ 00 SC 0 Nadeau, Gerard	P	L	# 325		e referring to a lease ignore.	ttachement was mistake	nly added in the I	Rogue comment
Comment Type G *** Comment submitte	Comment Status A ed with the file 31532000024-G	RN_comments.c	EZ sv attached ***	The comma better than s		al to purposely draw atter	ntion to the fact th	nat cabling can be
captured. Comments manually transferred i	nsure that all comments supplie were supplied in 802.3 Workin in to the inferior IEEE ballot too	g Group ballot file	e format and were	CI 33 SC McCormack, Me	3 3.2 ghan	P 38	L 33	# 327
to ensure completene	ess. The chair and v	erify all of Mr Na،	deau's comments are		it submitted wit	Comment Status A h the file 31532200024-0 he second sentence of the		
Review Rogue comm included.				"to"				
included. Response	Response Status C			SuggestedReme	edy			
included. Response ACCEPT.	Response Status C esults in no change to text.			Should read power to the link section,	"The PSE's m detected PD t to monitor the	ain functions are: to sear hrough the power on the link section rning to the searching sta	n, and to remove	
included. Response ACCEPT.	, -			Should read power to the link section,	"The PSE's m detected PD t to monitor the r required, retu	hrough the power on the link section	n, and to remove	

C/ 33 SC 33.2.1 P38 L 51 # 328 McCormack, Meghan	C/ 33 SC 33.2.3 P43 L42 # 330 McCormack, Meghan
Comment Type G Comment Status A EZ *** Comment submitted with the file 31532300024-GRN_comments.csv attached ***	Comment Type G Comment Status R *** Comment submitted with the file 31532500024-GRN_comments.csv attached ***
Either add a comma to the first sentence or subtract one from the second (add being preferred.) Be consistent with lists SuggestedRemedy Should read "PSEs can be compatible with 10BASE-T, 100BASE-TX, and/or 1000BASE-T. PSEs may support either Alternative A, Alternative B, or both." or "PSEs can be compatible with 10BASE-T, 100BASE-TX and/or 1000BASE-T. PSEs may support either Alternative A, Alternative B or both." Response Response Status C ACCEPT IN PRINCIPLE. FYI: The comment tool added a bogus reference to an attachement that does not exist. Should read "PSEs can be compatible with 10BASE-T, 100BASE-TX, and/or 1000BASE-T. PSEs may support either Alternative A, Alternative B, or both."	Add commas around "in some cases" SuggestedRemedy Should read "For the purposes of data transfer, the type of PSE data port is relevant to the far-end PD and, in some cases, to the cabling system between them." Response Response Status C REJECT. Exact duplicate of 329, which is in the EZ bucket. Ed note: note referring to attachement was mistakenly added in the Rogue comment interface. Please ignore. C/ 33 SC 33.2.3 P43 L48 # 331
Cl 33 SC 33.2.3 P43 L42 # 329 McCormack, Meghan Comment Type G Comment Status A EZ **** Comment submitted with the file 31532400024-GRN_comments.csv attached *** Add commas around "in some cases" SuggestedRemedy Should read "For the purposes of data transfer, the type of PSE data port is relevant to the far-end PD and, in some cases, to the cabling system between them." Response Response Status C ACCEPT. Ed note: note referring to attachement was mistakenly added in the Rogue comment interface. Please ignore. C C	McCormack, Meghan pics Comment Type G Comment Status R pics The paragraph does not make proper sense, specifically the phrase "or both" does not in light of the second sentence unless the PSE is intended to have multiple link segments. SuggestedRemedy Should read "A PSE shall implement Alternative A or Alternative B. While a PSE may be capable of both Alternative A and Alternative B, PSEs shall not operate both Alternative A and Alternative B on the same link segment simultaneously." A PSE can not truly 'implement' something it is prohibited from 'operating.' Response Response Status C REJECT. This is legacy text. The change would prevents a PSE from providing one of two alternatives.

C/ 33 SC 33.2.4.1 McCormack, Meghan	P 44	L 24	# 332		C/ 33 McCorma		33.2.4.4 han	P 45	L 30	# 334	
Comment Type G The phrase "that is" is	Comment Status A unnecessary and slightly awk	ward.		EZ	<i>Comment</i> "when		G ecessary	Comment Status A			EZ
	performing detection using Alt			(see		d read "	•	ng both components of th n line 33.	e MPS, the DC cor	mponent of MPS" o	or
Response ACCEPT.	Response Status C				Response ACCE		RINCIPLE	Response Status C			
C/ 00 SC 0	_ P	L	# 333		Shoul	d read "	lf monitorir	ng both components of th	e MPS, the DC cor	mponent of MPS."	
McCormack, Michael Comment Type GR	Texas Instrum Comment Status R	ents		mgmt	C/ 33		33.2.4.4	P 47	L10	# 335	
I am unsure where to f managed devices and	ix this, but, it appears to me th have triggered support for ma s, I believe, and unintended co	nagement for all	l clauses implemer	-	Suggested	<i>Type</i> pse_skip dRemed	G os_event2. /y	Comment Status A " seems unnecessary can choose to bypass a p	ortion of the classif	fication state flow."	EZ
Not sure how to fix.	_				Response	9		Response Status C			
Response REJECT.	Response Status U				ACCE	EPT.					
					"The F	PSE car	n choose to	bypass a portion of the	classification state	flow."	
	ensus, rejected by default				C/ 33 McCorma		33.2.4.5 han	P 47	L 41	# 336	
	change IEEE 802.3at to match				Comment Period		G ng "additio	Comment Status A n" should be a colon (if th	ne text following the	e word is the additi	<i>EZ</i> on.)
tree as IEEE P802.3bc	ext week. If we decide to go wi is at the moment we have so ckages in IEEE P802.3at to al	lved the above p	problem - if we don			d read "	-	operate in the manner de	scribed in 14.2.3.2	with the following	
to match 802.3bc. Oth	ke 802.3at contingent on 802. erwise we will have a mismatc presently follow the containme	h. Also the attrib	outes correspondin	g to	Response ACCE			Response Status C			

C/ 33 SC 33.2.4.5 IcCormack, Meghan	P 46	L12	# 337	C/ 33 McCorma	SC 33.2.4.5 ck, Meghan	P 49	L 6	# 340
<i>Comment Type</i> G Replace comma with ser	Comment Status A micolon		E		<i>Type</i> G does not agree wi	Comment Status A		
SuggestedRemedy Should read " MPS; s	see "			Suggestee Shoul	-	tion returns a variable: ", also	fix on line 15	
esponse ACCEPT IN PRINCIPLE	Response Status C			Response ACCE		Response Status C		
Assume this is page 48.				On lin	e 6 and 15, repla	ce "return" with "returns."		
The editor should adjust text on the same page.	this text as appropriate.	The suggested solu	ution is consistent with	C/ 33 McCorma	SC 33.2.5 ck, Meghan	P 52	L 46	# 341
/ 33 SC 33.2.4.5	P 46	L15	# 338		<i>Type</i> G s better without th	Comment Status A		
omment Type G Replace comma with ser	Comment Status A micolon		EZ	Shoul	•	SE may successfully detect a	PD but then opt	t not to power the
uggestedRemedy Should read " time; se esponse	ee " Response Status C			Response ACCE)	Response Status C		
ACCEPT IN PRINCIPLE Assume this is page 48.	•			C/ 33 McCorma	SC 33.2.6 ck, Meghan	P53	L 21	# 342
The editor should adjust text on the same page.	this text as appropriate.	The suggested solu	ution is consistent with	Extra	<i>Type</i> G commas	Comment Status A		
7 33 SC 33.2.4.5 IcCormack, Meghan	P 46	L17	# 339	limitat detec	d read "A functior ion but restricts th	nal equivalent of the detectior ne PSE first quadrant is shown in Figi		no source impedance
omment Type G Replace comma with ser uggestedRemedy	Comment Status A micolon		E	Response ACCE)	Response Status C		
Should read " turn-on	; see "							
Response ACCEPT IN PRINCIPLE	Response Status C							
			ution is consistent with					

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 # 342

Page 82 of 86 3/12/2009 2:49:20 PM

C/ 33 SC 33.3.5.1 McCormack, Meghan	P 75	L 5	# 343		C/ 33 SC 33 McCormack, Megha		P 81	L 41	# 346
Comment Type G Extra commas	Comment Status R				Comment Type Missing word "to	-	Comment Status A		
	all present one and only one c ay be unnecessary, it is technic <i>Response Status</i> C	0	0		SuggestedRemedy Should read "Cu Response ACCEPT.		w equal to or above the mini <i>Response Status</i> C	mum"	
The extra commas are	e there for emphasis.				CI 33 SC 33 McCormack, Megha		P 82	L 26	# 347
C/ 33 SC 33.3.7.6 AcCormack, Meghan	P80	L 30	# 344		Comment Type The comma follo	-	Comment Status R parenthetical expression "if	any" is unnece	essary.
Comment Type G Poor syntax and inden	Comment Status A			EZ	SuggestedRemedy Remove the cor	nma follo	wing "(if any)" in two places.		
uggestedRemedy Replace the period aft immediately below (lin	er the word "following" with a c les 31 to 35)	olon and indent	t the paragraph		Response REJECT.		Response Status C		
Response ACCEPT IN PRINCIPI	Response Status C				appositives star can also be use	t with or, s	s are short phrases that furth such as, particularly, especia ify or explain a preceding na	ally, and similar	r words. Appositives
Editor to ask the IEEE	editors for guidance for this st	ructure.			commas.				
C/ 33 SC 33.3.7.9	P 81	L 25	# 345		Cl 33 SC 33 McCormack, Megha		P 85	L 45	# 348
Comment Type G	Comment Status A			ΕZ	Comment Type The second occ	-	Comment Status A of the work "with" is not nece	ssary.	
SuggestedRemedy	y at the PSE side, the PD side	or both due to	the presence"		SuggestedRemedy Should read "Th PD, and the follo		all be tested with the PHY tra E"	nsmitting data,	, an operating PSE or
Response ACCEPT.	Response Status C				Response ACCEPT IN PR		Response Status C		
					OBE 208				

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 # 348

Page 83 of 86 3/12/2009 2:49:21 PM

C/ 33 SC 33.4.9.1 McCormack, Meghan	P90	L 12	# 349		CI 33 McCormack	SC 33.5.1.1 Meghan	P 93	L 35	# 352
Comment Type G The texts says there a	Comment Status A are three types of midspans bu	t the list enumera	ates four	EZ	Comment Ty Comma	vpe G s missing.	Comment Status A		
SuggestedRemedy Make the text say fou Response ACCEPT.	r or eliminate a list item Response Status C				the func to be dis <i>Response</i>	ould read "A PS tion abled, shall igr	E that supports Data Link Lay nore writes to bit 11.5 and sha <i>Response Status</i> C		
C/ 33 SC 33.5 McCormack, Meghan	P 92	L 28	# 350		ACCEP	T. SC 33.5.1.1	P 93	L 45	# 353
Comment Type G A comma is required SuggestedRemedy Should read "(MDIO), Response ACCEPT.	Comment Status A after the parenthetical item MD then" Response Status C	IO.			McCormack Comment Ty Comma SuggestedR Text sho	Meghan <i>upe</i> G s missing. <i>emedy</i> puld read "A PS	Comment Status A GE that supports Physical Laye shall ignore writes to bit 11.4	er classification,	but does not allow the
Cl 33 SC 33.5.1.1 McCormack, Meghan	P 93	L 24	# 351		Response ACCEP	Г.	Response Status C		
Comment Type G Formatting problem, t SuggestedRemedy Move text. Response ACCEPT.	Comment Status A ext which should appear above Response Status C	e the table 33-21	appears below it.		SuggestedR Text sho	rpe G onomizing of we emedy buld read "settir d add bit twice.	Comment Status A ords making the text read poo		# 354

C/ 33 SC 33.5.1.2.1 P95 L34 # 355 McCormack, Meghan	C/ 33 SC 33.6.7.1 P107 L18 # 358 McCormack, Meghan				
Comment Type G Comment Status A Extra comma should be deleted.	Comment Type G Comment Status A The second occurrence of "then" in the sentence is unnecessary.				
SuggestedRemedy Text should read "Entity writes to a reserved bit it should use a value of zero."	SuggestedRemedy Should read " MIRROR UPDATE state and returns to the "				
Response Response Status C ACCEPT.	Response Response Status C ACCEPT. C				
C/ 33 SC 33.5.1.2.2 P95 L38 # 356 McCormack, Meghan	C/ 33 SC 33.6.7.1 P107 L23 # 359 McCormack, Meghan				
Comment Type G Comment Status A Missing the word "that"	Comment Type G Comment Status A Add a comma at the end of the line				
SuggestedRemedy	SuggestedRemedy				
SuggestedRemedy Text should read "bit 12.13 indicates that the PSE supports" Response Response Status C	SuggestedRemedy The entire sentence should read "The PSE may decide to ignore the request, in which case it returns to the RUNNING state, or it may decide to change the PD allocation by entering the PSE POWER REALLOCATION state and behaves as described above."				
Text should read "bit 12.13 indicates that the PSE supports"	The entire sentence should read "The PSE may decide to ignore the request, in which case it returns to the RUNNING state, or it may decide to change the PD allocation by entering				
Text should read "bit 12.13 indicates that the PSE supports" Response Response Status Cl 33 SC 33.5.1.2.9 P96 L 29 # 357	The entire sentence should read "The PSE may decide to ignore the request, in which case it returns to the RUNNING state, or it may decide to change the PD allocation by entering the PSE POWER REALLOCATION state and behaves as described above." <i>Response Response Response Status C</i> ACCEPT.				
Text should read "bit 12.13 indicates that the PSE supports" Response Response Status C ACCEPT. C/ 33 SC 33.5.1.2.9 P96 L 29 # 357 Comment Type G Comment Status A	The entire sentence should read "The PSE may decide to ignore the request, in which case it returns to the RUNNING state, or it may decide to change the PD allocation by entering the PSE POWER REALLOCATION state and behaves as described above." <i>Response</i> <i>Response</i> <i>Response</i> <i>C</i>				
Text should read "bit 12.13 indicates that the PSE supports" Response Response Status C ACCEPT.	The entire sentence should read "The PSE may decide to ignore the request, in which case it returns to the RUNNING state, or it may decide to change the PD allocation by entering the PSE POWER REALLOCATION state and behaves as described above." Response Response Status C ACCEPT. C/ 33A SC 33A.1 P131 L26 # 360				
Text should read "bit 12.13 indicates that the PSE supports" Response Response Status ACCEPT. Cl 33 SC 33.5.1.2.9 P96 L 29 # 357 McCormack, Meghan Comment Type G Comment Status A Is "Delivering" supposed to be capitalized? If so should "power" be too? SuggestedRemedy Response Response Status C	The entire sentence should read "The PSE may decide to ignore the request, in which case it returns to the RUNNING state, or it may decide to change the PD allocation by entering the PSE POWER REALLOCATION state and behaves as described above." Response Response Status C ACCEPT. C/ 33A SC 33A.1 P131 L26 # 360 McCormack, Meghan Comment Type G Comment Status A E				
Text should read "bit 12.13 indicates that the PSE supports" Response Response Status ACCEPT. C/ 33 SC 33.5.1.2.9 P96 L 29 # 357 McCormack, Meghan Comment Type G Comment Status A Is "Delivering" supposed to be capitalized? If so should "power" be too? SuggestedRemedy	The entire sentence should read "The PSE may decide to ignore the request, in which case it returns to the RUNNING state, or it may decide to change the PD allocation by entering the PSE POWER REALLOCATION state and behaves as described above." <i>Response Response Status</i> C ACCEPT. <i>CI</i> 33A SC 33A.1 P 131 <i>L</i> 26 # <u>360</u> McCormack, Meghan <i>Comment Type</i> G <i>Comment Status</i> A <i>E</i> Missing word "a" <i>SuggestedRemedy</i>				

C/ 33A SC 33A.1	P131	L 42	# 361	C/ 33	SC 33.4.2	P84	L16	# 364	
McCormack, Meghan				Cobb, Ter	ry				
Comment Type G	Comment Status A			EZ Comment	Туре Т	Comment Status A			
Missing comma						hing tolerance on the resistor	s is missing which	ch could cause the test	
SuggestedRemedy				to fail. Also c		ect 33.4.3; pg 86, In 38, sect	33.4.4; pg 87, In	25 sect 33.4.5	
Should read " at sh	ort cable length, or by present	ing"		Suggeste	dRemedy				
Response	Response Status C				Add "Resistor matching 1 part in 100" This applies to the center tapped resistor				
ACCEPT.				Response	Response Response Status C				
C/ 33A SC 33A.2	P133	L 41	# 362	ACCE	PT IN PRINCIPI	LE.			
McCormack, Meghan				Chan	Change tolerance from "1%" to "0.5%"				
Comment Type G Superfluous comma an	Comment Status A nd missing "and"			EZ C/ 33	SC 33.4.3	P84	L 30	# 365	
SuggestedRemedy				Cobb, Ter	•				
	of this, measuring the PD inpel		a complicated task	<i>Comment</i> The m	51	Comment Status A r the 10Mb/s PHY is only 20 M	ИНz		
Response	Response Status C			Suggester	,				
ACCEPT.				Chang	ge to 20 MHz, se	ee af			
C/ 33 SC 33.1.3 McCormack, Meghan	P 37	L 21	# 363	Response ACCE		Response Status C			
				_					
Comment Type G Missing comma	Comment Status A			EZ					
SuggestedRemedy Should read "In an End	dpoint PSE and in a PD, the P	l is encompasse	ed within the MDI."						
Response ACCEPT.	Response Status C								