00       SC       P       L       # 142         ompson, Geoffrey       Nortel       Nortel         omment Type       ER       Comment Status       D         D3.1 comment 97       Ifeel that the response to Mr Landry is inappropriate.       Since the TF/CRG could not come to a consensus for a recommended response, the comment should not be rejected. Rather, both sides of the proposal and the TF/CRG vote should be presented to the balloting group and the decision should be made by them without bias.         ggestedRemedy       D         Dresent bath both eides of the proposal and the TE/CRC vote to the balloting group for the second back both sides of the proposal and the TE/CRC vote to the balloting group for the second back both sides of the proposal back both sides by them without bias.	Cl 00 SC 0 Dawe, Piers Comment Type E Comment S Don't use 'TM' in page headers, we do SuggestedRemedy Also p17, don't 'TM' the second mention Proposed Response Response S PROPOSED ACCEPT IN PRINCIPLE Practice is to use one on the first appe	P1 L1 Avago Technologies Status D on't want them on every page ion of 802.1AB Status W E.	# <u>113</u>				
wompson, Geoffrey       Nortel         womment Type       ER       Comment Status       D         D3.1 comment 97       I feel that the response to Mr Landry is inappropriate.       Since the TF/CRG could not come to a consensus for a recommended response, the comment should not be rejected. Rather, both sides of the proposal and the TF/CRG vote should be presented to the balloting group and the decision should be made by them without bias.         'ggestedRemedy       D         Propert both both eides of the proposal and the TE/CRC vote to the balloting group for the test of the proposal and the test of the balloting group and the decision should be made by them without bias.	Dawe, Piers Comment Type E Comment S Don't use 'TM' in page headers, we do SuggestedRemedy Also p17, don't 'TM' the second mentic Proposed Response Response S PROPOSED ACCEPT IN PRINCIPLE Practice is to use one on the first appe	Avago Technologies Status <b>D</b> on't want them on every page ion of 802.1AB Status <b>W</b> E. erance					
D3.1 comment Type       ER       Comment Status       D         D3.1 comment 97       I feel that the response to Mr Landry is inappropriate.       Since the TF/CRG could not come to a consensus for a recommended response, the comment should not be rejected. Rather, both sides of the proposal and the TF/CRG vote should be presented to the balloting group and the decision should be made by them without bias.         'ggestedRemedy       Present bath both eides of the proposal and the TE/CRC vote to the balloting group for the proposal and the the balloting group for the proposal and the terms of the balloting group for the balloting gro	Comment Type       E       Comment S         Don't use 'TM' in page headers, we do       SuggestedRemedy         Also p17, don't 'TM' the second mention       Proposed Response         PROPOSED ACCEPT IN PRINCIPLE       Practice is to use one on the first appendiction	Status D on't want them on every page ion of 802.1AB Status W E.					
D3.1 comment 97 I feel that the response to Mr Landry is inappropriate. Since the TF/CRG could not come to a consensus for a recommended response, the comment should not be rejected. Rather, both sides of the proposal and the TF/CRG vote should be presented to the balloting group and the decision should be made by them without bias. <i>'ggestedRemedy</i> Breagent both both sides of the proposal and the TE/CRC vote to the balloting group for the	Don't use 'TM' in page headers, we do SuggestedRemedy Also p17, don't 'TM' the second mention Proposed Response Response S PROPOSED ACCEPT IN PRINCIPLE Practice is to use one on the first appendix	on't want them on every page ion of 802.1AB Status W E.					
Since the TF/CRG could not come to a consensus for a recommended response, the comment should not be rejected. Rather, both sides of the proposal and the TF/CRG vote should be presented to the balloting group and the decision should be made by them without bias.	SuggestedRemedy Also p17, don't 'TM' the second mention Proposed Response Response S PROPOSED ACCEPT IN PRINCIPLE Practice is to use one on the first appe	ion of 802.1AB Status W E.					
comment should not be rejected. Rather, both sides of the proposal and the TF/CRG vote should be presented to the balloting group and the decision should be made by them without bias.	Also p17, don't 'TM' the second mention Proposed Response Response S PROPOSED ACCEPT IN PRINCIPLE Practice is to use one on the first appe	ion of 802.1AB Status W E.					
should be presented to the balloting group and the decision should be made by them without bias.  ggestedRemedy  Breagent beth beth eiden of the propagal and the TE/CRC vote to the balleting group for the	Proposed Response Response S PROPOSED ACCEPT IN PRINCIPLE Practice is to use one on the first appe	Status <b>W</b> E.					
IggestedRemedy	PROPOSED ACCEPT IN PRINCIPLE Practice is to use one on the first appe	erance					
Dresont both both sides of the proposal and the TE/CBC vets to the balleting group for the	Practice is to use one on the first appe	erance					
decision to be made by them.							
oposed Response Response Status W	Editor to remove TMs from header.						
PROPOSED ACCEPT IN PRINCIPLE.	Also, don't 'TM' the second mention of	f 802.1AB					
The Commont Desolution Group (CDG) could not some to concernate on whether or not to			<u>н</u>				
accept your proposal. It is therefore recirculated with no recommendation. That being the	C/ 00 SC 0	P1 L56	# 114				
case, the default kicks in, the proposed change is not accepted and the current text stands							
unless there is further action from the balloting group.	Comment Type E Comment S	Status D	won't print on come				
Here is the original D3.1 comment and suggested remedy:	printers, and 2 lines lower than in public	lished 802.3.	won't print on some				
Comment:	SuggestedRemedy						
There really isn't a need for both IMin1 and IMin2, as the key values can be combined into a single parameter	Remove (at least) one line-feed in each of left and right page footers						
	Proposed Response Response Status W						
Suggested Remedy: Replace IMin1 and IMin2 with a new parameter, IMin, 5mA min, 10 mA may	PROPOSED ACCEPT IN PRINCIPLE.						
	Editor to attempt to fix. If unable, edited	orial staff will catch this error at	t publication.				
Replace the first 3 sentences of the section with the following: A PSE shall consider the DC MPS component to be present if IPort is greater than or equal to IMin max for a minimum of TMPS. A PSE shall consider the DC MPS component to be absent if IPort is less than or equal to IMin min. A PSE may consider the DC MPS component to be either present or absent if IPort is in the range of IMin.							
00         SC 0         P0         L0         # 1           NDRY, MATTHEW         SILICON LABS							
omment Type E Comment Status D ez							
Some of the figures in the CMP document are improperly stricken with red lines.							
lagested Remedy							
The editor should be more careful when composing the CMP document.							
oposed Response Response Status W							
PROPOSED ACCEPT.							

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

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Comment Type       E       Comment Status       D         "A PD that advertises a power draw less than or equal to 12.95 W" significant digits have been fixed at 3. 12.95 should be changed to 13.0.       SuggestedRemedy         Change to "A PD that advertises a power draw less than or equal to 13.0 W"       Proposed Response       Response Status       W         PROPOSED ACCEPT IN PRINCIPLE.       OBE 110       OBE 110       Image: Close Comment Type       TR       Comment Status       D         A type 2 PD may draw more than 13 W and then move to a lower power value. It advertise its new power need so that the PSE can reallocate power. Because of t steps a type 2 PD has just met the definition of a Type 1 PD.       The status of the type 1 PD.	10 t may these							
OBE 110         Cl 01       SC 1.4       P17       L 24       # 110         Vetteth, Anoop       Cisco       Cisco       Image: Comment Type       TR       Comment Status       D         A type 2 PD may draw more than 13 W and then move to a lower power value. It advertise its new power need so that the PSE can reallocate power. Because of t steps a type 2 PD has just met the definition of a Type 1 PD.       Example 1 PD.	10 It may							
C/ 01       SC 1.4       P17       L 24       # 111         Vetteth, Anoop       Cisco       Cisco       Comment Type       TR       Comment Status       D         A type 2 PD may draw more than 13 W and then move to a lower power value. It advertise its new power need so that the PSE can reallocate power. Because of t steps a type 2 PD has just met the definition of a Type 1 PD.       Example 1 PD.	10 It may these							
Comment Type         TR         Comment Status         D           A type 2 PD may draw more than 13 W and then move to a lower power value. It advertise its new power need so that the PSE can reallocate power. Because of t steps a type 2 PD has just met the definition of a Type 1 PD.	It may these							
A type 2 PD may draw more than 13 W and then move to a lower power value. It advertise its new power need so that the PSE can reallocate power. Because of t steps a type 2 PD has just met the definition of a Type 1 PD.	It may these							
	A type 2 PD may draw more than 13 W and then move to a lower power value. It may advertise its new power need so that the PSE can reallocate power. Because of these steps a type 2 PD has just met the definition of a Type 1 PD.							
SugaestedRemedv								
Replace definition of Type 1 PD with: "A PD that does not provide class-4 signature during physical layer classification." Replace definition of Type 2 PD with: "A PD that provide class-4 signature during physical layer classification." Proposed Response Response Status W	_ <b>"</b>							
PROPOSED ACCEPT.								
C/         01         SC 1.4         P17         L 29         # 43           Jones, Chad         Cisco	3							
Comment Type E Comment Status D								
"A PD that advertises a power draw greater than 12.95 W" significant digits have been fixed at 3. 12.95 should be changed to 13.0.								
SuggestedRemedy Change to "A PD that advertises a power draw greater than 13.0 W"								
Proposed Response Response Status W								
PROPOSED ACCEPT IN PRINCIPLE.								
OBE 110								
	Replace definition of Type 1 PD with: "A PD that does not provide class-4 signature during physical layer classification." Replace definition of Type 2 PD with: "A PD that provide class-4 signature during physical layer classification." Proposed Response Response Status W PROPOSED ACCEPT. C/ 01 SC 1.4 P17 L29 # 4 Jones, Chad Cisco Comment Type E Comment Status D "A PD that advertises a power draw greater than 12.95 W" significant digits have been fixed at 3. 12.95 should be changed to 13.0. SuggestedRemedy Change to "A PD that advertises a power draw greater than 13.0 W" Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. OBE 110							

COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/v	vithdrawn C/ 01
SORT ORDER: Clause, Subclause, page, line		SC 1.4

01 1.4 Page 2 of 39 11/11/2008 9:44:58 AM

C/ 25 SC 25.4.4a Dawe, Piers	P <b>18</b> Avago Techr	L <b>26</b> ologies	# 115		<i>CI <b>25</b> LANDRY, M</i>	SC <b>25.4.4a.1</b> MATTHEW	I P19 SILICOI	L17 N LABS	· # [2	
Comment Type <b>T</b> A 'Type 2 device' won' 2'. 'Device' is too vagu	Comment Status <b>D</b> t make any sense to a reader the for a 'shall' requirement.	of Clause 25, w	here there is no 'Ty	<i>EZ</i> pe	Comment T The gra	<i>Type</i> <b>E</b> ammar could be	Comment Status <b>E</b> e improved a bit for this p	) paragraph.		EZ
SuggestedRemedy Change 'Type 2 device Proposed Response PROPOSED ACCEPT	e' to 'Type 2 Endpoint PSE or Response Status W	Type 2 PD (see	Clause 33)'.		FROM: While t shown when c the poi	Remeay : ransmitting the in Figure 25-1, alculated using nt of maximum l	Data Dependent Jitter (I the equivalent system ti measurement points A baseline wander droop.	DDJ) packet of <sup>-</sup> me constant, t, s and B as define Point A is the p	ΓΡ-ΡΜD A.2, usin shall be greater th d in Figure 25-1. I oint 150μs earlier	g the fixture an 2.4µs Point B is in time
C/ 25 SC 25.4.4a.1 Vetteth, Anoop	P <b>19</b> Cisco	L15	# 112		from Po the diff	oint B. These m erential signal o	easurements are to be output at the MDI with no	made for the tra	nsmitter pair and o ple.	observing
Comment Type <b>TR</b> The measurement step The diagram shown sh	Comment Status <b>D</b> os need to be improved in oro nould be improved to be more	ler to reject non representative	compliant systems. of what will be seen	EZ	TO: While t shown when c	ransmitting the in Figure 25-1, s alculated using	Data Dependent Jitter (I the equivalent system ti measurement points A	DDJ) packet of <sup>-</sup> me constant, t, s and B.	TP-PMD A.2, usin shall be greater th	g the fixture an 2.4µs
SuggestedRemedy See avetteth_BLW.pdf -Focus on the front of f - Use relative measure - Improve the figure. Normally MLT3 signals	f for the details. The key chat the droop because it has the ements. s exist around 0 V. A BLW even to p short of 0 V.	nges are: most voltage ex vent shifts the D	cursion. C bias. The shift is		Point E in time observ Proposed F PROPO	B is the point of r from Point B. T ed on the difference Response OSED ACCEPT	maximum baseline wand hese measurements are ential signal output at the <i>Response Status</i> <b>V</b> IN PRINCIPLE. the recommendation may	der droop. Point e to be made for e MDI with no in <b>V</b>	A is the point 150 the transmitter pa tervening cable.	)μs earlier air and
Proposed Response	Response Status W								. by 112	47
PROPOSED ACCEPT					Dawe, Pier	SC <b>25.4.4a</b> .1 s	Avago T	L <b>20</b> Fechnologies	# [1 7	17
This changes the meth	nod of measurement only.				Comment T You se at B wi	<i>Type</i> <b>T</b> em to be requiri Il destroy any co	Comment Status <b>C</b> ing a measurement acro onfidence in the result	<b>)</b> oss 160/2.4 = 67	' time constants.	<i>EZ</i> Tiny errors
					Suggested Need t	<i>Remedy</i> wo points much	nearer together in time	?		
					Proposed F PROP OBE 1	Response OSED ACCEPT 12	Response Status V	v		

C/ **25** SC **25.4.4a.1**  Page 3 of 39 11/11/2008 9:44:58 AM

C/ 25 SC 25.4.4a.1 Dawe, Piers	P <b>19</b> Avago Techno	L <b>27</b> plogies	# 118	<i>Cl</i> <b>25</b> Dawe, Pier	SC <b>25.4.4a.</b> 's	1 P19 Avago Tech	L <b>27</b> Inologies	# 119
Comment Type <b>T</b> Unless there is somethi envelope at B won't be envelope at B is defined	Comment Status <b>D</b> ing special about MLT-3 and nearly zero. Or are you defin d as zero?	the choice of I_ ning a voltage s	BIAS, the upper cale such that upper	Comment This is consta up to t	<i>Type</i> <b>TR</b> not a standard int' which you sh he test equipme	Comment Status <b>D</b> for test equipment. You are nould do precisely, without 1 ent manufacturers and custo	e defining an 'equi % (or is it 2%)? a mers how accura	valent system time mbiguity and slop. It's tely they want to
SuggestedRemedy Please clarify.				positiv	es, or false neg	atives, or will give their best	estimate.	hat won't give raise
Proposed Response	Response Status W			Suggested Remov	<i>lRemedy</i> ve the '+/- 1 %' f	rom Figure 25-1.		
OBE 112	IN PRINCIPLE.			Proposed PROP	Response OSED REJECT	Response Status W		
The DDJ used for this to	est reduces the upper enevic	op to a value clo	# 116	l see t	he same approa	ich taken in other clauses. e	ex/ Common-mode	e output voltage 33.4.4.
Dawe, Piers	Avago Techno	ologies	# 110	Cl 25	SC <b>25.4.4a.</b>	1 P19 Microsemi (	L29	# 62
Comment Type <b>T</b> Need to explain what I_ rely on TP-PMD if it is of SuggestedRemedy Define I_BIAS as used	Comment Status D BIAS is in the context of 25.4 lefined there)	4.4a.1 (following	<i>EZ</i> the 'or' at line 13, can't	Comment Draft E The 10 Did an affect	<i>Type</i> <b>TR</b> 03.2 00 ohm terminat ybody check that the measureme	Comment Status D ion is isolated by 10uF minin at at the low frequency of the nts due to the fact that the e	mum capacitor. e envelope (150us ffective terminatic	s ==> <10KHz) it doesnt on is Xc+R?
Proposed Response PROPOSED ACCEPT.	Response Status W			Suggested Transf	Remedy ormer and chan	nel ad hoc to check that Xc	< <r at="" f<="1/150u&lt;/td"><td>s</td></r>	s
Instruct the Editor to us	e their descretion to add the	following text to	the end of 25.4.4a.1.	Proposed PROP	Response OSED ACCEPT	Response Status W		
"Ibias is the current lunl	b/2 defined in clause 33."			A pres circuit	entation can be with satisfactory	made at the Plenary to cove / results.	er this. Several c	ompanies used the test

The comment submitter could also have verified this and provided a recommendation.

C/ 25 SC 25.4.4a.1

CI 25 SC 25	5.4.4a.1 W	P <b>19</b> Silicon Lab	۲ <b>35</b>	# 4	C/ <b>25</b> Darshan `	SC 25 Yair	.4.4a.1	P <b>19</b> Microsemi Corr	L <b>39</b>	# 60
Comment Type	T Co	mment Status D	0	F7	Comment	Type 1	TR	Comment Status D	oradon	FZ
The equation re wander droop ti level returns to	elating V(t) and me constant. I normal.	I Vx is not precisely con Nor does it apply after t	rrect. It applies c the DDJ packet	only to the baseline ceases, and the DC	Draft I The M that pe	D3.2 ILT-3 uppe pint B is al	er envelo ways ze	ope in figure 25-1 is aligned to ro which is not true.	the X axis a	t point B which means
SuggestedRemedy					Suggestee	dRemedy				
Change "1.0" so normalization p	cale annotatior oint.	n to say, "V(t)/Vx = 1.0'	' to make it clea	er this is a	Chang point /	ge the drav A.	wing to s	how that point B may be any	value above	zero but is lower than
l Ise a bracket tr	o show that the	e \/(t)=\/xexn(_t/tau) eq	uation annlies to	the decay period only	Proposed	Response	9	Response Status W		
Proposed Response		nonse Status W	dation applied to	, the debuy period only.	PROF	POSED AC	CEPT.			
PROPOSED AC	CCEPT.				OBE ?	112				
Start with 112 t	then adapt nev	v concepts to provide t	he extra guidan	the from this comment.	C/ <b>25</b> LANDRY,	SC 25 MATTHEV	. <b>4.4a.1</b> N	P <b>19</b> SILICON LABS	L <b>40</b>	# 3
C/ 23 SC 23	0.4.4d.1	P 19 Microsemi Co	L 33	# 01	Comment	Туре Е	E	Comment Status D		EZ
Comment Type	TR Co.	mment Status D	poration	EZ	The va A and	ariable, T, B, T, is no	in the ed ot italiciz	quation is italicized. The time ed.	period graph	ically indicated between
Draft D3.2 V(t) and Vx are Please define V compliance test	not defined clo ((t) and Vx and ts purposes.	early. I specify their location t	to be used later	for measurement and	Suggested Italiciz	dRemedy the "T."				
SuggestedRemedy								Response Status W		
Define V(t) and	Vx and specify	y their location to be us	sed later for mea	surement and		USED AC				
compliance test	ts purposes.	-			CI 25	SC 25	.4.4a.1	P <b>19</b>	L <b>41</b>	# 5
Please explain l	how to access	V(t)/Vx for measuring	the above?		LANDRY,	MATTHEV	N	SILICON LABS		
Proposed Response	e Res	ponse Status W			Comment	Type 1	г	Comment Status D		
PROPOSED AC	CCEPT IN PRI	INCIPLE.			The e clear t	quation for hat VA an	r calulati d VB are	ng tau based on the the A and the voltages at times A and	d B points co B.	uld be improved. It is not
OBE by 112 and	d 4.				Suggestee	dRemedy				
V(t) is shown or shown to be 1 ir	n the MDI in th n the figure. T	e figure. The value of his comment may alreat	Vx can be infere adv be address	d from where it is	FROM tau = ·	1: -T / ln(VA/	VB)			
made by 4.	0	5	,		TO: tau =	-T / In(V(A	)/V(B))			
					Proposed	Response	9	Response Status W		
					PROF	POSED AC	CEPT II	N PRINCIPLE.		
					This s	hould be d	discusse	d. Both methods seem to be	ok.	

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: Clause, Subclause, page, line

C/ 25 SC 25.4.4a.1 Page 5 of 39 11/11/2008 9:44:58 AM

C/ 30 Vetteth, Ano	SC <b>30.2.5</b> op	P <b>24</b> Cisco	L1	# 85		C/ 30 sastry, rame	SC <b>30.2.5</b> esh	F Ciso	2 <b>5</b> co Systems	L <b>36</b>	# 84	
<i>Comment T</i> y Why is t and not	/pe E he word "condi the PSE DLL F	Comment Status <b>D</b> itional" used to describe only Power Classification Package	PD DLL Power	Classification Packa	<i>ez</i> age	Comment 7 There is	<i>ype</i> <b>T</b> MIB variable	Comment Statu e to store the Model N	<i>is</i> <b>D</b> lumber for P	D and there	is none for PSE.	
SuggestedR Be cons	<i>emedy</i> istent	Ŭ				Suggested Add the	Remedy following (Pa	age 25)				
Proposed Ro PROPO	esponse SED ACCEPT	Response Status W				aPSEM Page- 2	odel Number 29 Line 30	ATTRIBUTE GET	(PSE DLL	Power Class	ification Package)	
Clarify th	ne text so the v	vord conditional is used for bo	oth packages			30.9.1.	1.23 aPSEMod	del Number				
						ATTRIE	BUTE					
						APPRO Reso BEHAV	PRIATE SYN urce Info 10UR DEFINE	ITAX ED AS:				
			The value of aPSEModel Number is assigned produced by the implementor. The vaue of this concatenation of the implementor's OUI and a implementor's choosing. While the selection of these strings shall ensure that the string seque implementor.				ned so as to f this field is nd a sequen on of printab equence is u	so as to uniquely identify a model of PD field is assigned by the implementor using a sequence of printable strings of the printable strings are left to the implementor, ence is unique to the PD type from the				
						Proposed F	Response	Response Statu	s W			
						PROPC	SED ACCEP	T IN PRINCIPLE.				
					Is the c PD moo If it is th then it i	ommenter ask del number or le former, ther s a new featur	king for a MIB variabl is he asking for a ne n it is unecessary as re that the group sho	e in the PSE w variable to managemen uld discuss	package to store a PSE t can get to t	store the value of the unique model number. he PD. If it is the later		
						Cl 30 Dawe, Piers	SC 30.9.2.1	1.14 F Ava	2 <b>33</b> Igo Technolo	L17 ogies	# 120	
						Comment 7 '0x' nota	<i>ype</i> <b>T</b> ation is not use	<i>Comment Statu</i> ed in Clause 30. See	vs <b>D</b> e 30.8.1.1.8	for an examp	ez	
			Suggestedl Change	SuggestedRemedy Change '0xFFFF' to 'the hexadecimal value FFFF' (or maybe 'the hexadecimal value FF-FF')								
						Proposed F PROPC	Response DSED ACCEP	Response Statu PT IN PRINCIPLE.	s W	·		

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

C/ 30 SC 30.9.2.1.14

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Cl 30A	SC 30A	P	L	# 143		Cl 30A	SC <b>30A.16.</b> 1	P131 Nortel	L <b>46</b>	# 144
Comment Throug None o update argum term fo	<i>Type</i> <b>ER</b> ghout Annex 30, of the links for the ent term for "WI or "MATCHES F ut the repair of th	Comment Status D A the Annex 30A text that was pro- e specific pointer (with embedd TH ATTRIBUTE SYNTAX") no OR")	ovided to the S led link) to the or the operator not complete.	eoul meeting have t attribute syntax (i.e. type (i.e. the argum	30A been the ent	Comment Lines 4 Missin Suggested Insert Proposed PROP	<i>Type</i> <b>ER</b> 16 through 52 g commas as se <i>Remedy</i> missing comma <i>Response</i> OSED ACCEPT	Comment Status D eparators after each "GET" s as separators after each "GET Response Status W	" (5 instance	ez
I will at comme any tha	ttempt to provide ent deadline. Th at I may miss.	e individual comments for eac is comment is being entered t	h problem that o cover the pro	I find before the oblem in general and	l for	CI <b>30A</b> Landry,	SC <b>30A.16.2</b> MATTHEW	P135 SILICON LABS	L10	# [7]
Suggested Provid SYNT/	<i>IRemedy</i> e the specific po AX" that is lable	binter (with embedded link) for d "Where?"	each instance	of "WITH ATTRIBU	TE	<i>Comment</i> The M listed a	<i>Type</i> <b>T</b> ATCHES FOR 1 as "WHAT?" wh	Comment Status <b>D</b> ield for all of these additions is in ich is clearly incorrect.	ncomplete. <sup>-</sup>	<i>30A</i> The value is currently
Provid "WHA	e the specific op T?" and/or any a	perator type for each instance appropriate modification	of "MATCHES	FOR" that is labled		S <i>uggested</i> Seek t	<i>Remedy</i> he advice of sol	neone who knows what this field	d means.	
Proposed PROP	Response OSED ACCEPT	Response Status W				Proposed PROP	Response OSED ACCEP1	Response Status W		
We we	elcome the spec	ific editorial changes from the	commenter an	d appreciate his hel	р	Refer	comment 143			
Cl 30A Thompson	SC <b>30A</b> , Geoffrey	P Nortel	L	# 145		CI <b>30A</b> LANDRY,	SC <b>30A.16.2</b> MATTHEW	2 P135 SILICON LABS	L13	# 6
Comment	Type ER	Comment Status D			30A	Comment	Туре Т	Comment Status D		30A
Throug The lea	ghout Annex 30, af registration va	A alues for each attribute, action	etc. have not	been filled in (as is		The R dLLPo	EGISTERED As werType (nnn),	6 field for all of these additions is should have a proper number in	incomplete place of (n	). The final qualifier, e.g., nn).
norma	i loi this stage o	i ballotilig).				Suggested	Remedy			
The do	ocument should	not progress to Sponsor Ballo	t without these	values being filled i	n.	Seek t assign	he advice of so ed.	neone who knows what those n	umbers mea	an and how they are
Fill in t 802.3 a prepar	the attribute regi and conform to ation of the draf	stration values with values tha 802.3 conventions for such va t for Initial Sponsor Ballot (but	at are appropria lues. This sho not before).	ately unique across uld be done during		Proposed PROP	Response OSED ACCEP1	Response Status W IN PRINCIPLE.		
Proposed PROP	Response OSED ACCEPT	Response Status W IN PRINCIPLE.				Refer	comment 145			
This ne	eeds to be done	as part of the changes to go	to SB							

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: Clause, Subclause, page, line

C/ 30A SC 30A.16.2 Page 7 of 39 11/11/2008 9:44:58 AM

C/         30A         SC         30A.16.2         P135         L30         #         12           LANDRY, MATTHEW         SILICON LABS         Image: Silicon labs	CI 30A         SC 30A.23.2         P143         L22         # 10           LANDRY, MATTHEW         SILICON LABS
Comment Type         T         Comment Status         D         30A           The WITH ATTRIBUTE SYNTAX field for all of these additions is incomplete. The value is currently listed as "IEEE802Dot3-MgmtAttributeModule.Where?" which is clearly incorrect.         30A	Comment Type         T         Comment Status         D         30A           The REGISTERED AS field for all of these additions is incomplete. The final qualifier, e.g., pDID(nn), should have a proper number in place of (nn).         30A
SuggestedRemedy         Seek the advice of someone who knows what this field means.         Proposed Response       Response Status         W         PROPOSED ACCEPT IN PRINCIPLE.         Refer comment 143	SuggestedRemedy         Seek the advice of someone who knows what those numbers mean and how they are assigned.         Proposed Response       Response Status         PROPOSED ACCEPT IN PRINCIPLE.
C/ 30ASC 30A.16.2P135L9# 8LANDRY, MATTHEWSILICON LABSComment TypeTComment StatusD30A	Cl 30A       SC 30A.23.2       P143       L31       # 11         LANDRY, MATTHEW       SILICON LABS       SILICON LABS       304
Intervitin ATTRIBUTE STITIAX field for all of these additions is incomplete. The value is currently listed as "IEEE802Dot3-MgmtAttributeModel.Where?" which is clearly incorrect.         SuggestedRemedy         Seek the advice of someone who knows what this field means.         Proposed Response       Response Status         PROPOSED ACCEPT IN PRINCIPLE.         Refer comment 143	The MATCHES FOR field for all of these additions is incomplete. The value is currently listed as "WHAT?" which is clearly incorrect.  SuggestedRemedy Seek the advice of someone who knows what this field means.  Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
C/ 30A     SC 30A.23.1     P142     L38     # 9       LANDRY, MATTHEW     SILICON LABS       Comment Type     T     Comment Status     D     30A       The REGISTERED AS field for all of these additions is incomplete. The final qualifier, e.g., pDDIIPowerClassificationPkg(nn)     should have a proper number in place of (nn)	Refer to comment 143         C/ 30B       SC 30B.1       P147       L13       # 139         Thompson, Geoffrey       Nortel       Image: Comment Type       E       Comment Status       D       ez         One too many colons in "PDPoweredFrom:::= ENUMERATED"       Enumeration       Enumeration       Enumeration       Enumeration
SuggestedRemedy         Seek the advice of someone who knows what those numbers mean and how they are assigned.         Proposed Response       Response Status       W	SuggestedRemedy Change to: "PDPoweredFrom::= ENUMERATED" Proposed Response Response Status W PROPOSED ACCEPT.
PROPOSED ACCEPT IN PRINCIPLE. Refer comment 143	

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: Clause, Subclause, page, line

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C/ 30B SC 30B.1	P <b>147</b>	L18	# 140	C/ 33 S	SC 33.1	P35	L <b>33</b>	# 121		
Thompson, Geoffrey	Nortel			Dawe, Piers		Avago Techno	logies			
Comment Type E Missing comma Change: "(5)" SuggestedRemedy To: "(5)," Proposed Response	Comment Status D Response Status W		ez	Comment Typ In 802.3 'n splitter(s) : medium ru pair cablin 'multipoint I raised thi was not ar	e TR nultipoint' ap and multiple uns past the g scenario v ' (directional is issue in D nswered.	Comment Status <b>D</b> oplies to PONs: a topology with outstations. Not the shared m intermediate stations. What d where one MDI is connected to a above? 3.0 comment 374 'First, is 'mul	y with one head end directional power ared medium of coax Ethernet where the Vhat do you mean here? Is there a twisted cted to more than one MDI? If so, is it really is 'multipoint' the right word?' but this point			
FROFOSED ACCEPT.				SuggestedRer	nedy					
C/ 30B SC 30B.1 Thompson, Geoffrey	P <b>147</b> Nortel	L <b>25</b>	# 141	Not knowi Maybe you	ng what you u should talk	mean I can't provide a full rem about 'shared medium'.	edy. Don't us	se the word 'multipoint'.		
<i>Comment Type</i> <b>E</b> Extra comma Change: "(2)."	Comment Status D		ez	Proposed Res PROPOSI	<i>ponse</i> ED REJECT	Response Status W				
SuggestedRemedy To: "(2)"				Multipoint don't supp requested reader tha	is anything f ort power ov in comment t if they do a	that is not point-to-point. As we ver optics so PONs are not an t 374. This is front end, introdu	e replied in D3 issue. We fixe ictory text. Th	3.0 comment 374, we ed the drawing as ne intent is to tell the port they are on their		
Proposed Response	Response Status W			own.						
	• •			This is the text: "The detection and powering algorithms are likely to be compromised by cabling that is multipoint as opposed to point-to-point, resulting in unpredictable performance and possibly damaged equipment." Not quite sure what is confusing about it. Additionally, this is legacy text that has served well since being released in 2003.						
				C/ 33 S	SC 33.1.1	P35	L <b>48</b>	# 122		
				Dawe, Piers		Avago Techno	logies			
				Comment Type Don't call I clauses we	e <b>T</b> MDIs of othe ere written fi	Comment Status <b>D</b> er clauses 'existing'. Future rea irst. These MDIs could be new	ders will not k ly manufactur	now or care which ed.		
				<i>SuggestedRer</i> Delete 'exi	<i>nedy</i> isting'.					
				Proposed Res PROPOSI	ponse ED ACCEP1	Response Status W				

C/ 33 SC 33.1.1

C/ 33 SC 33.1.1 P35 L48 # 39	C/ 33 SC 33.1.4 P37 L26 # 133					
Jones, Chad Cisco	Dawe, Piers Avago Technologies					
Comment Type       E       Comment Status       D       ez         "1000BASE-T without modification.Type 1 operation adds" missing space after period.       suggestedRemedy       ez         SuggestedRemedy change to: "1000BASE-T without modification. Type 1 operation adds"       ez       ez         Proposed Response       Response Status       W	Comment Type         TR         Comment Status         D           Still confused as to what I_Cable is.         Per D3.0 comment 391 'is that per cable (bundled) as it says, or per conductor, or per MDI (two conductors each way)?           ACCEPT IN PRINCIPLE.         Add footnote: Icable is the maximum output current per PI in normal powering mode.'           but this draft says 'DC current per pair' and 'when all cable pairs are energized at ICable' implying it is per pair, not per PI or per conductor. Maybe it's not really 'per' pair, as one pair carries the DC current out and the other carries it back?					
PROPOSED ACCEPT.	SuggestedRemedy					
C/ 33         SC 33.1.3         P37         L8         # 123           Dawe, Piers         Avago Technologies	If it isn't the current per cable, don't call it I_Cable! Change its name to I_pair (or I_PI?). Change 'per pair' to 'on a pair'.					
Comment TypeTRComment StatusDFig 33-3 shows a PSE in a Midspan capable of applying power to a medium. There is a PI on the right, and an interface without a name on the left, the medium continues to a PHY with no PD (which you should not apply power to). By comparison, Fig 33-6 shows two arrangements which power the right hand side but not the left. The medium is not 	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Good catch. Icable appears in Table 33-1 without any introduction. The current can't be called I_PI as the overall current out of the PI is 0.					
SuggestedRemedy Correct Fig 33-3. Show some arrangement to break the continuity within the Midspan. Could also show a PHY with PD on the left.	Add a sentence or two to the end of the paragraph under 33.1.4 or after Table 33-1 defining lcable:					
Proposed Response Response Status W PROPOSED REJECT.	"Icable is the supply current on one twisted pair in the multi-twisted pair cable. Two twisted pairs are required to source Icable, one carrying +Icable and one carrying -Icable from the perspective of the PI."					
The reply to D3.0 comment 380 still applies "A midspan doesn't have a PHY, therefore it doesn't have an MDI. This is our best effort to illustrate a midnan. Commenter is unlearner to submit his own drawing"	See also 29, which pulls another sentence to this section. Resolve together. Also 124					
The comment hints at lack of understand of the concept of a midspan. This is a device that applies power to a PD that sits in between a non-PoE switch and a PD. The drawing shows the PI on the right which can be thought of as the output of the midspan. This is where you connect the PD and the only place where the midspan would ever apply power (hence the label PI). The unnamed connection to the left is to the legacy non-PoE switch.	CI 33       SC 33.1.4       P37       L39       # 13         LANDRY, MATTHEW       SILICON LABS       Comment Type       T       Comment Status       D         The significant digits for DC current per pair are improperly set at 2.       SurgestedRemedy       SurgestedRemedy       SurgestedRemedy					

Instead of 0.35 and 0.60, use 0.350 and 0.600.

Proposed Response Response Status W PROPOSED ACCEPT.

compliant).

C/ 33	SC 33.1.4.1	P <b>37</b>	L48	# 124	C/ 33	SC 33.1.4	.2	P37	L48	# 63			
Dawe, Pier	'S	Avago Techno	ologies		Darshan,	Yair		Microsemi	Corporation				
Comment For Ty 'Chanr while te 'chann cable r resista	Type <b>T</b> pe 2, Table says hel maximum DC ext says el DC loop resista eferences use "D nce," resulting in	Comment Status <b>D</b> pair loop resistance 12.5 ohr ince shall be 25 ohm or less C loop resistance" while this a factor of two reduction of F	m',  · clause uses "E RCh.'	DC pair loop	Comment Draft 1. Th It is c 2. In I cable	Type TR D3.2 e title is wrong hannel require ines 17-18: Rr conductor	Comm ment and not nax and Rmin	nent Status D t cable requiremen n are the sum of	ent. conductors resist	ance and not only the			
Suggested Don't h or choo Decide pair loo explair schem	Remedy have two competin ose your own qua e which of 'Channe op resistance' you h why the factor of es that use two pa	ng definitions of Rch! Either ntity. el DC pair loop resistance', ' are using, and use it consis two arises; is it because a p airs, or what?	use their quant channel DC loo tently. It would pair contains tw	ity with their definition, p resistance', or 'DC be kind to the reader o conductors, you hav	to to to to to to to to to to to to to t	1. Change the title from: "Type 2 cabling requirement" to "Type 2 Channel requirement" 2. In both lines 17-18:							
Proposed I PROP	Response OSED ACCEPT I	Response Status W N PRINCIPLE.			Chan Proposed	Change "the resistance of conductor" to "the resistance of the sum of conductors Proposed Response Response Status W							
We are referer allowe pair. Our sta	We are choosing our own quantity and we are using it. The problem is that we have to reference the cable standards to ensure readers understand what types of cable are allowed under this standard. The cable standards use loop resistance of one cable in the pair.					Multiple comments in one comment: 1. The title is wrong: This section defines the cabling to use with Type 2 systems. It point to cabling standards. This is a cabling requirement. REJECT							
To helj FROM	p make clearer, cl : "resulting in a fa	nange to the end of the first	sentence on pa ."	ge 38, L2:	2. In l cablir the ca	<ol> <li>In lines 17-18 (Page 38): It says "between two conductors in the 100 ohm balanced cabling SYSTEM". Does this not mean the sum of conductors? Cabling system != only the cable. REJECT</li> </ol>							
TO: "re	esulting in a factor	of two reduction of RCh due	e to the two wire	es in a twisted pair."	see 1	see 111, which may solve the commenters concern.							
Also, s	ee 29 and 133. r	esolve together.											
C/ <b>33</b> Schindler,	SC <b>33.1.4.1</b> Fred	P <b>38</b> Cisco	L1	# 29									
Comment This us	<i>Type</i> <b>E</b> seful note is applic	Comment Status <b>D</b> cable to Type 1 and Type 2 of	cabling.		ez								
S <i>uggested</i> Move t	Remedy this sentence to the	e bottom of section 33.1.4.											
Proposed I PROP	Response OSED ACCEPT.	Response Status W											

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

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C/ 33     SC 33.1.4.2     P38     L 18     # 125       Dawe, Piers     Avago Technologies	C/ 33         SC 33.2.11.1.2         P68         L5         # 47           Darshan, Yair         Microsemi Corporation
Comment Type <b>T</b> Comment Status <b>D</b> Is this the usual definition of unbalance or mismatch?	Comment Type ER Comment Status D Draft D3.2 Table 33-12 item 3b.
SuggestedRemedy I would have expected 2 x (Rmax-Rmin)/(Rmax+Rmin) x 100 %.	According to IEC 60950-1:2001, SELV operation is 60VDC and not 60Vpeak. See EN60950 page B59 clause 2.2.2.
Proposed Response       Response Status       W         PROPOSED ACCEPT IN PRINCIPLE.       This is the definition (no factor of 2) that has been used since 802.2af. CE is not aware of	SuggestedRemedy Option 1: Change item 3b "unit" in Table 33-12 from Vp to Vdc or Option 2: Change item 3b "unit" in Table 33-12 from Vp to V and add "The DC value" to the "additional information" column of item 3b.
a missing factor of 2 and was able to derive the equation for mismatch without the factor of 2.	Proposed Response Response Status W PROPOSED REJECT.
Cl 33       SC 33.1.4.2       P38       L23       # 111         Vetteth, Anoop       Cisco       Cisco         Comment Type       TR       Comment Status       D         This specification and ISO deal with a channel unbalance. The definitions of Rmax and Rmin are for a cable only. They are the same value at this point. The correct definition includes this model contain 4 connections,10 m of jumper cables and 90 m of horizontal	This is legacy text that has not been changed. The requirements of IEC 60950 are not violated by saying 60 Vp. This standard requires SELV to be met.
cabling. SuggestedRemedy Resolution: Correct the definitions of Rmax and Rmin, by replacing "conductor" with "channel conductor"	
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	
Replace "conductor" with "channel conductor" in two spots. Also, does this resolve 63?	

C/ 33 SC 33.2.11.1.2 Page 12 of 39 11/11/2008 9:44:58 AM

Cl 33         SC 33.2.3         P43         L 50         # 55           Darshan, Yair         Microsemi Corporation		<i>Cl</i> <b>33</b> Darshan, Y	SC 3 air	33.2.4.3	P <b>44</b> Micros	L emi Corporatio	<b>48</b> ‡	48
Comment Type TR Comment Status D Draft 3.2 The standard should not preclude implementations that are using both alternative A and B due to the following reasons:	<i>4р</i> В	Comment T Draft D The ter There i in the t occurre	<i>Type</i> 3.2 m start s no ne ext) tha ences w	ER up is actu ed to use t has actu vith POWI	Comment Status ally the state POWEF two different terms (F ually the same meanin ER_UP".	D R_UP in the sta POWER_UP in ig. Scan the dr	ate diagram. h the state diagrar raft and replace a	m and startup Il "startup"
requirements.		Suggested	Remed	У 				
b) There are no interoperability issues if PD gets power from 2x 2 pairs power source if al pairs are comming from the same port/segment/PSE type 2. It is the load responsibility (PD) to meet the 2P specification for each 2P	III	Scan ti Proposed I	ne draft Respon	and repla	ace all "startup" occur Response Status	rences with PC W	OWER_UP".	
(4P ad hoc recomendations)		PROP	OSED A	ACCEPT	IN PRINCIPLE.			
SuggestedRemedy		This sh	ould be	e discusse	ed by seems acceptat	ole.		
Change from:		Cl 33	SC 3	33.2.4.4	P <b>45</b>	L	20 #	# 30
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".		Comment T	Type re word:	E s that are	Comment Status normally used for per	D ople.		
To: "A PSE shall implement Alternative A or Alternative B, or both. While a PSE may be capable of both Alternative A and Alternative B, PSEs shall not deliver power on both Alternative A and Alternative B simultaneously on the same segme If Alternative A and Alternative B are operated from different link segments or different power systems or from Type 1 PSE. For Type 2 PSEs, simultaneous operation of Alternative A and Alternative B on the same link segment is out of scope of the standard."	ent	Suggested Replac PI volta With "This v to indic	Remedy e "This age out ariable ariable	y variable i put and w is provide completio	s provided to support ho use this value to ir ed for PSEs that moni- on of PD inrush during	PSEs whose p idicate the con for the PI volta	power up operation npletion of PD inr ge output and use eration."	on monitors the ush." e this variable
		Proposed I	Respon	se	Response Status	W		
In addition, in 33.3.1 page 50 line 42 modify the text to be:		PROP	OSED A	ACCEPT.				
"NOTE-PDs that implement only Mode A or Mode B are specifically not allowed by this standard. PDs that may simultaneously receive power from both Mode A and Mode B are out of scope of this standard."	e	Discus	slooks	s great ;).				
Proposed Response Response Status W								
PROPOSED REJECT.								
This needs to be discussed. The group should decide what they want to do about 4P.								

C/ 33 SC 33.2.4.4

CI 33	SC 3	3.2.4.4	P <b>45</b>	L 20	# 68	CI 33	SC	33.2.4.4	P <b>45</b>	L <b>9</b>	# 49
Darshan,	Yair		Microsemi C	orporation		Darshan,	Yair		Microsemi (	Corporation	
Commen	t Type	TR	Comment Status D			Comment	t Type	ER	Comment Status D		
Draft	D3.2					Draft	D3.2				
The t	ext descri	bing lega	icy_powerup variable is not	technically accu	rate.	It is n In bot	ot clear	s PSE may	be in current limit.	ER_UP state or F	'OWER_ON state.
Ihe i 1 the	ssues are	: as heen s	shown that using only this F	l voltage inform:	ation may be insufficient	Suggeste	dReme	dy			
to de	termine th	ne true en	d of PD inrush" is not true.	we nevr shown t	hat.	Repla	ace the t	text from:			
1.1 lt	is true that	at in some	e implementations it will no	t be sufficient to	measure only PI	"curre	ent_limit	ting disating the	at the DSE is in current lim	i+	
inforr 1 2 It	is also tru	l it is tec	nnically possible and 100%	a implemtation is	sue. e implementation	Value	es: TRU	E: The PS	E is limiting the current pro	wided to the PD.	
Suggeste	dRomodu	/		good not of our		FALS	E: The	PSE is not	limiting the current to the	PD."	
Rent	ace the ci	, irrent text				То					
"It ha	s been sh	own that	using only this PI voltage in	nformation may t	be insufficient to	"curre	ent_limit	ting			
deter	mine the	true end o	of PD inrush; use of a fixed	TInrush period is	s recommended.	A var	iable inc	dicating the	at the PSE is in current lim	it.	
With	the follow	ina <sup>.</sup>				Value FALS	SE TRUI	E: The PS PSF is not	E is limiting the current pro	PD	
"Usir	g only this	s PI volta	ge information may be insu	fficient to determ	ine the true end of PD	Note:	PSE m	ay be in cu	urrent limit during POWER	_UP or POWER_	ON."
inrus	n; use of a	a fixed Th	nrush period is recommend	ed."		Proposed	l Respoi	nse	Response Status W		
Proposed	Respons	se	Response Status W			PROF	POSED	REJECT.			
PRO	POSED A	CCEPT I	N PRINCIPLE.			The	tata dia	arom 22 0	ank tooto ourront limiting	when moving from	
l beli	eve the ar	oup has	shown scenarios that can b	reak solutions th	at use PI voltage	POW	ER ON	l. Therefor	e. the variable is not consi	dered for the PO	WER ON case.
inform	nation.									/ 40	
"l leir	a only this	s PI volta	ae information is insufficier	nt to determine t	he true end of PD		SC	33.2.4.4	P53	L49	# 14
inrus	n; use of a	a fixed Th	nrush period is recommend	ed."		LANDRT,		-		403	
						Comment	t Type	E	Comment Status D		EZ
						The "	pse_ski	ps_event2	" variable is not in alphabe	tical order.	
						Suggeste	dReme	dy			
						Move	"pse_s	kips_even	t2" to be after "pse_reset."		
						Proposed	l Respoi	nse	Response Status W		
						PROF	POSED	ACCEPT.			
						This i	s on pag	ge 46.			

C/ 33 SC 33.2.4.4

CI 33 LANDRY,	SC <b>33.2.4.5</b> MATTHEW	P <b>47</b> SILICON LA	L <b>45</b> BS	# 16		<i>Cl</i> <b>33</b> Darshan, א	SC <b>33.2.4.6</b> Yair	P <b>57</b> Microse	L 24 emi Corporation	# 70
Comment tinrus	<i>Type</i> <b>E</b> h_timer, tme1_time	Comment Status <b>D</b> er, and tme2_timer are out	of alphabetical order.		ΕZ	Comment Draft E	<i>Type</i> <b>TR</b> 03.2	Comment Status	D	
Suggeste Rearr	<i>dRemedy</i> age them so they I	ist of timers is alphabetical				do_ov We ne	erload_detect fun ed to make it exp	iction is not implicitly a plicit to cover Tovld req	ddressing Tovld. juirements in Table 33	3-11
Rearr Proposed PROF	age them so they I Response POSED ACCEPT.	ist of timers is alphabetical Response Status W				In add Suggested Chang "do_ov This fu 5% of ovld_d Output Values one se FALSE To: "do_ov This fu 5% of variabl ovld_d Output Values FALSE Proposed J PROP This is adjuste To: "do_ov This fu 5% of	ition, part of the te <i>IRemedy</i> le from: verload_detect unction monitors t a one second slid letected: t of the do_overlos s: TRUE: The PSI econd sliding time E: The PSE has n verload_detect unction monitors t a one second slid le: letected: t of the do_overlos s: TRUE: The PSI E: The PSE has n <i>Response</i> OSED ACCEPT probably page 4 ment. verload_detect unction monitors t a one second slid	ext in the Value=TRUE he PSE output current ding time. This function ead_detect function. E has detected an ove and detected a qualified the PSE output current ding time, TovId as def ead_detect function. E has detected an ove not detected a qualified <i>Response Status</i> M IN PRINCIPLE. 9. The first paragraph the PSE output current ding time. This function	E is redundant. t and detects an overle return a variable: reload condition for at 1 t overload condition." t and detects an overle ined in Table 33-1. The reload condition. t overload condition. w of the proposal remand t and detects an overle t and detects an overle t and detects an overle t and detects an overle	bad condition for at least least 5% of a bad condition for at least his function return a
						Ovid_d Output Values FALSE	t of the do_overlo s: TRUE: The PS E: The PSE has n	ad_detect function. E has detected an ove ot detected a qualified	rload condition. I overload condition."	

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: Clause, Subclause, page, line

C/ 33 SC 33.2.4.6 Page 15 of 39 11/11/2008 9:44:59 AM

CI 33 SC 33.2.4.7									
ANDRY MATTHEW		L1	# 15	C/ 33	SC 33.2	.4.7	P <b>50</b>	L1	# 100
Comment Type T C	Comment Status D			Comment Ty	ор /pe ТF	ł	Comment Status D		
Now that the entrance to TE consequences. First, it is no longer necessa because if that expression w the entry to TEST_MODE w Second, however, once an or TEST_ERROR cannot func is always a forced entry to T SuggestedRemedy Eliminate test mode, becaus domain of leaving it to the ir Proposed Response Ro PROPOSED ACCEPT IN P mr_pse_enable has three v entered when the variable is IDLE (where port power is c The TEST_ERROR has two 1) The port is on and has a 2) Variable mr_pse_enable	ST_MODE is on open arrow ry to use "mr_pse_enable ! vere not true (i.e., mr_pse_ould be forced to occur. entrance into TEST_MODE tion. Because the "mr_pse_ EST_MODE, the open arrow se it is of questionable univer- nplementor. esponse Status W RINCIPLE. alues (disable, enable, force force_power. Priort to D3. ff). e exit paths: current fault is not forced_power	w, there are tw = force_powe enable DOES occurs, the tra- enable = force w will always ersal value an- e_power) and 2, TEST_MOI	vo unintended r" as a qualifier, equal force_power), ansition to e_power" expression be asserted. d easily left in the test mode is only DE was entered from	The PSI scenario then use should b Type-2 o state dia 2 curren TYPE2_ SuggestedR See pro Proposed R PROPO This cha 1) Type if it does 2) Type is compl 3) Type is compl	E state dia o where a es DLL for be able to current lim igram, the t limits to CLASS_I eemedy posed rer esponse SED ACC ange perm 2 PSE po eted. 2 PSE po eted	agram d Type-2 mutual power hits whee PSE th a Class DONE s nedy in EEPT. hits the classific wering wering wering	topes not tell you when type-2 PSE uses 1-Event classifica I identification. A Type-2 PSI up a Type-2 PD using Type- en mutual identification is con hat skips second finger of 2- s-4 PD as soon as classifica state). This is not the intended avetteth_PSE_Current_Lim <i>Response Status</i> <b>W</b> following: type 2 PD: MAY set type-2 of cation type 2 PD: MAY set type-1 of type 2 PD: SHALL set type-1	2 current limits ation to power- E that uses 1-I 1 current limits npleted. Simila Event classific tion is complet d behavior as it.pdf current limts af current limts ur 2 current limits	are employed for the up a Type-2 PD and Event classification s and then switch to arly as per the present ation needs to set Type- ed (Done in per the text. ter inrush is completed htil mutual identification s if mutual identification
A problem occurs when path TEST_MODE. i.e., entry for	n one is taken. That condition state TEST_MODE and TE	on also permit ST_ERROR i	s entry into state s valid.	4) Type complet	2 PSE po ed if it doe	wering es 2 eve	type 2 PD: SHALL set type- ent classification	2 current limts	right after inrush is
To keep TEST_MODE,				5) Туре	2 PSE po	wering	type 1 PD: MAY set type-2 o	current limts af	ter inrush is completed
1) Modify the entry to TEST (mr_pse_enable = force_po	_MODE: wer)*(!error_condition + !tlir	n_timer_done	+ ovld_detect)						
Now TEST MODE and any	be entered when the port of entry from IDLE) and new	does not have w behavior (TE	a fault. This change EST MODE entry from						

C/ 33 SC 33.2.4.7

C/ 33 SC 33.2.4.7 Vetteth, Anoop	P <b>50</b> Cisco	L <b>37</b>	# 95	C/ <b>33</b> Vetteth, Ar	SC 33.2.4.7	P <b>50</b> Cisco	L <b>40</b>	# 99
Comment Type T The transition from POW missing: * !option_vport_lim SuggestedRemedy Complete the transition	Comment Status D	DENIED state (d	epicted by "D") is	Comment I belie be the [(powe !currer	<i>Type</i> <b>TR</b> we that the transit following: er_applied * legac tt_limiting)] * tpor	Comment Status <b>D</b> ion condition from POWER_ y_powerup * tinrush_timer_r u_timer_not_done	UP state to POV not_done) + (tinr	VER_ON state should
Proposed Response PROPOSED ACCEPT. This matches the constr The group should discus port That is power is d	Response Status W uct used.	aced on a PSE th	nat can not power the	Currer Suggestec Check Proposed PROP	ntly topn_timer_de IRemedy this and correct Response OSED ACCEPT.	one is associated with only le t <i>Response Status</i> <b>W</b>	egacy power-up	
Cl 33 SC 33.2.4.7 Vetteth, Anoop Comment Type E Transition condition from bracket. SuggestedRemedy Correct this tinrush_timer_done * (le Proposed Response PROPOSED ACCEPT.	P50 Cisco Comment Status D n POWER_UP state to ERR gacy_powerup + current_lin Response Status W	L37	# 86 EZ e is missing a a	C/ 33 Darshan, N Comment Draft I There curren a) any b) whe this ex EROR Suggested Chang tinrush To: tinrush To: tinrush curren (now in (Inrush impler Proposed PROP	SC 33.2.4.7 (air Type TR D3.2 Figure 33-9. is an error at the t_limiting is set ir current limit value in the current limit it is set wheneve _DELAY (Remedy the from: t_timer_done*leg t_limiting mplementor can so t_limiting.) Response OSED ACCEPT	P50 Microsemi Cc Comment Status D exit from POWER_UP to ER the following cases: e which will be decided by th t is actually the Inrush current r the PSE port is in current limit acy_powerup + current_limit acy_powerup + tinrush_time select current limit threshold d POWER_ON current limit a Response Status W IN PRINCIPLE.	<i>L</i> 45 arporation ROR_DELAY. e eimplementor at miting_which can ing r_done*(Iport >= to differentiate b and also support	# 67 using to be always in = linrush) + etween POWER_UP t legacy

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C/ 33 SC 33.2.4.7 Vetteth, Anoop	Р <b>51</b> Сіsco	L13	# 96		C/ <b>33</b> S Darshan, Yair	C 33.2.4.7	P <b>52</b> Microsemi Co	L13 prporation	# 80
Comment Type <b>T</b> Variable temp_var is no	Comment Status D ot defined			ΕZ	Comment Type Draft D3.2	TR state machi	Comment Status D ne - Improved remedy for sar	me comment tha	t I have sent earlier
SuggestedRemedy Define temp_var in Sec A temporary variable us Proposed Response PROPOSED ACCEPT. Editor to use their discret	tion 33.2.4.4 sed to store the value of the s <i>Response Status</i> <b>W</b> etion when fixing this.	state variable mr <u>.</u>	_pd_class_detect	ed.	Figure 33- TLIM timer steady stat Vport>=50 level is sur Accumulat SuggestedRen Two modifi	1 ILIM state stops it also e is 57V, ILI / for 49mse med until th ve TLIM as nedy cations:	e machine is not allowing inte o resets the counter this may M is close to (0.4/0.35)*Icabl c and than Iport=Icable for 1r nermal breakdown. done in TOVLD will solve this	egrating TLIM du lead to system f e in a way that d msec (example) s problem.	e to the fact that when ailure when Vport luring Iport=ILIM in this case the energy
Cl 33 SC 33.2.4.7 Vetteth, Anoop Comment Type T do_classification_2 is n SuggestedRemedy Change it to do_classifi Proposed Response PROPOSED ACCEPT.	P51 Cisco Comment Status D ot defined cation Response Status W	L19	# <u>97</u>	EZ	1. Page 47 Change fro "All timers is reset and To: "All timers is reset and otherwise s 2. On page Add the f	clause 33.2 m: operate in th d stops cour operate in th d stops cour specified. 48 line 8 TI ollowing tex	2.4.5 lines 35-36: ne manner described in 14.2. nting upon entering a state wi ne manner described in 14.2. nting upon entering a state wi LIM Timer: t:	3.2 with the follo here "stop x_time 3.2 with the follo here "stop x_time	wing addition. A timer er" is asserted" wing addition. A timer er" is asserted unless
Cl 33 SC 33.2.4.7 Vetteth, Anoop Comment Type E The transition from MOI SuggestedRemedy Remove this transition Proposed Response	P <b>52</b> Cisco <i>Comment Status</i> <b>D</b> NITOR_OVLD to itself is not <i>Response Status</i> <b>W</b>	L10	# 87	EZ	TLIM tim asserted. <i>Proposed Resµ</i> PROPOSE This appea	er may accu conse D ACCEPT rs to be a re	mulate TLIM value by not res Response Status W IN PRINCIPLE. speat of 59 and is OBE by 59	setting counting	when "stop x_timer" is

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CI 33	SC 33.2.4.7	P <b>52</b>	L13	# 59
Darshan, Yai	r	Microsemi C	orporation	

Comment Status D Comment Type TR

Draft D3.2 state machine

Figure 33-11 ILIM state machine is not allowing integrating TLIM due to the fact that when TLIM timer stops it also resets the counter this may lead to system failure when Vport steady state is 57V, ILIM is close to (0.4/0.35)\*Icable in a way that during Iport=ILIM Vport>=50V for 49msec and than Iport=Icable for 1msec (example) in this case the energy level is summed until thermal breakdown.

Accumulative TLIM as done in TOVLD will solve this problem.

#### SuggestedRemedy

Two modifications:

1. Page 47 clause 33.2.4.5 lines 35-36:

Change from:

"All timers operate in the manner described in 14.2.3.2 with the following addition. A timer is reset and stops counting upon entering a state where "stop x timer" is asserted"

### To:

"All timers operate in the manner described in 14.2.3.2 with the following addition. A timer is reset and stops counting upon entering a state where "stop x timer" is asserted unless otherwise specified.

2. On page 48 line 8 TLIM Timer:

Add the following text:

TLIM timer may accumulate TLIM value by not resetting counting upon entering a state where "stop x timer" is asserted.

#### Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This is a real problem but no duty cycle limit has been specified for ILIM. This same issue was raised two drafts ago when other duty cycle issues were raised, but the correction slipped through the cracks.

1) Specify a period over which TLIM accumulated every time port current is limited.

Add sentence to 33.2.9.8 after sentence ". transients at the PI."

"The cumulative duration of TLIM may be measured with a sliding window of at least 1 second width "

2) Create function for 33.2.4.6

do short detection

This function monitors the PSE output current and detects a current limit condition for at least TLIM of a one second sliding time. This function returns a variable:

### short detected:

Output of the do short detection.

Е

Values: TRUE: The PSE has detected a current limit condition for at least TLIM of a one second sliding time.

FALSE: The PSE has not detected a qualified current limit condition.

3) Modify Figure 33-11 MONITOR SHORT, the state contains only do short detection. Remove the DETECT SHORT state and conditions from that state, and the exit from MONITOR SHORT.

CI 33	SC 33.2.6.1	P53	L <b>47</b>	# 44
Heath, Jeff		Linear Techn	ology	
Comment Tvi	pe F	Comment Status D		FZ

First paragraph of 33.2.6.1 is grammatically and technically correct but may be misinterpreted if not read in the presence of an English Major.

#### SuggestedRemedy

#### Text Is:

Comment Type

The detection voltage Vport shall be within the Vvalid voltage range at the PSE PI with a valid PD detection signature connected, as specified in Table 33-4 and Table 33-14. respectively.

#### Text Should Be:

The detection voltage Vport shall be within the Vvalid voltage range at the PSE PI (as specified in Table 33-4) with a valid PD detection signature connected (as specified in Table 33-14).

Proposed Response	Response Status	w	
PROPOSED ACCEPT.			

CI <b>33</b> S Darshan, Yair	SC 33.2.6.1	P <b>5</b> Micro	4 semi Corpora	L <b>27</b> ation	# 64
Comment Type Draft D3.2 Cgood is 1	e <b>TR</b> 150nF	Comment Status	D		EZ
SuggestedRer Change to	<i>nedy</i> 150nF or cha	inge units to "uF"			
Proposed Res PROPOSI	<i>ponse</i> ED ACCEPT I	Response Status N PRINCIPLE.	w		

Coood was 150 nF. Either change it back to this or use 0.150 uF. Note that mks unit normally use power of 1000. I suggest that the 150 nF value is best.

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: Clause, Subclause, page, line

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C/ 33 SC	33.2.8	P <b>55</b>	L <b>53</b>	# 91	CI 33	SC 33.2.8	P <b>57</b>	L1	# 81
Commont Turno	<b>FD</b>	Cisco			Feidman,				
Comment Type	ER agraph on th	Comment Status D		It usos phrasos liko	Comment	<i>Type</i> <b>ER</b>	Comment Status D	tiona But it ia la	acted in the DSE
"less over-m	argined valu	ue"	is convoluted.	it uses prirases like	sectio	n. THis confuses	the reader, with too much in	formation, specia	ally since a reader will
SuggestedReme	edv				tipical	y only be implem	enting a PSE or a PD.		
Change last	paragraph t	:0:			Suggestee	dRemedy			
		mut hu the DCE for a mortioud	an DD, alaan in d	ofined by Equation (22	Separ	ate the table into	two tables, one related to th	e PSE and locate	ed in section 33.2.8,
2). Alternativ	n power out elv PSE imi	put by the PSE for a particul plementations may use VPSI	ar PD class is d E = VPort min a	nd RChan = RCh max	to the	table need also t	o be changed.	on 33.3.5. Refere	ences in section 33.3.5
to arrive at o	ver-margine	ed PClass values as shown in	n Table 33-7.		Proposed	Response	Response Status W		
Proposed Respo	onse	Response Status W			PROF	OSED ACCEPT	IN PRINCIPLE.		
PROPOSED	ACCEPT.						-		
C/ 33 SC	33.2.8	P56	L <b>5</b>	# 28	This n docun	nakes the docum nent. CE likes the	ent more readable, but make e suggestion but wonders of	es not technical c the wisdom of m	hange to the aking a change this big
zoladz, diego		MSCC			at this	stage in the proc	cess. Suggest voting on the	change.	
Comment Type	TR	Comment Status D			C/ 33	SC 33.2.8.1	P <b>57</b>	L <b>45</b>	# 92
Formula 33-2	2 has an err	or:			Vetteth, A	поор	Cisco		
Into the squa	are root app	ears a term = 2 x Rchan x Po	class_PD		Comment	Type ER	Comment Status D		
					It dose	ent make sense t	o say that a Type 2 PSE will	treat the PD as <sup>-</sup>	Type 2 PD but may
replace with	∶uy ∵ 4 x Rchan	x Pclass_PD			provid	e Class 0 power			
Proposed Respo	nse	Response Status W			The sa	ame is repeated i	n 33.2.8.2 line 40-41		
PROPOSED	) ACCEPT II				Suggestee	dRemedy			
					Strike				
OBE 71					"will tr	eat the PD as a 1	Type 2 PD" in both places		
CI 33 SC	33.2.8	P <b>56</b>	L <b>5</b>	# 71	Proposed	Response	Response Status W		
Darshan, Yair		Microsemi Cor	poration		PROF	OSED ACCEPT			
Comment Type	TR	Comment Status D							
Draft D3.2									
EQUATION : There is an e	33-2: error in the t	erm 2xRchanxPclass PD.							
SuggestedReme	dv	_							
Change to 4	x Rchan x F	Pclass_PD.							
Proposed Respo	onse	Response Status W							
PROPOSED	ACCEPT.								
Good catch. pair resistan	Obviously, ce.	we forgot to add the factor o	f 2 back in whe	n we made Rch the					
TYPE: TR/techni	ical required	ER/editorial required GR/o	eneral required	T/technical E/editorial G/o	eneral				

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

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Cl 33 SC 3 Schindler, Fred	3.2.9	P <b>60</b> Cisco	L10	# 31	Cl <b>33</b> Thompson	SC <b>33.2.9</b> , Geoffrey	P <b>61</b> Nortel	L16	# 149
Comment Type Some paramet SuggestedRemedy Be consistent.	E Con ter units were ch	nment Status <b>D</b> nanged to mks while o	ther were not. ex	A and mA	Comment D3.1 c The co The gu it.	<i>Type</i> <b>TR</b> comment 198 comment DOES N roup evidently ei	Comment Status <b>D</b> NOT have the effect of lowing ither misunderstood the inter	g the maximum PI ntion or wishes to r	geoff D power to 22 watts. miscommunicate about
Proposed Respons PROPOSED A The group sho	se Resp CCEPT IN PRIN uld briefly discus	oonse Status W NCIPLE. ss a recommendation			The pr relieve levels max b	roposed change the spec from have to be prov y reducing the v	allows for a lower voltage to having to the highest curren ided at all voltage levels. You oltage.	be used at lower at the lowest vol u would get to red	power levels and tage. Not all power uce the power from the
To avoid decin place.	nal places use m	nks units that keep at	least on digit to th	e left of the decimal	Suggested As rec	<i>IRemedy</i> juested in previc	ous comment.		
CI 33 SC 3 Thompson, Geoffre	<b>3.2.9</b> ey	P <b>61</b> Nortel	L16	# 147	Proposed PROP	Response OSED REJECT	Response Status W		
D3.1 comment The response a) There is no That would re an implementa b) Since the m mandate the h	58 to Mr Anslow is reasonable ratio equire the PSE to tion matter and ax current and p igher voltage.	inaccurate. onale that all power le o be a voltage source not proper for the sta power is beng lowered	vels have to be av rather than a cur ndard to regulate. I, there is no tech	vailable at all voltages. rent source which is nical reason to	The ta done. See th intend	sk force reques te text, in the ori ed" for the si	ted the proposer to resubmit ginal response, below the lin ubject mater expert interpreta	a corrected remederer a corrected remederer a corrected remederer and the second secon	dy. This was not t I believe was
Therefore, I an SuggestedRemedy Allow a Vport r operating requ Proposed Respons PROPOSED F The interpretat comment redu lower power le This appears t	n "piling on" to h / nin value down t irements of the r se Resp REJECT. ion of this comm ces interoperabi vels. o be a feature th	is comment. to as low as 44 volts i moment are being me <i>bonse Status</i> <b>W</b> nent appears different lity. Only some PDs nat is outside the scop	n any situation in et. I from the original will operate at the pe of this standard	which the remaining proposer. The new lower voltages and or					
Also see respo	onse to D3.1, 58.								

C/ 33 SC 33.2.9

C/ 33 SC 33.2.9	P <b>61</b>	L <b>28</b>	# 72	CI 33 SC	33.2.9.1	P103	L <b>47</b>	# 126
Darshan, Yair	Microsemi Co	rporation		Dawe, Piers		Avago Technol	logies	
Comment Type TR Draft D3.2 Table 33-11:	Comment Status D			Comment Type Never say 's measured (a	TR C hall be measure and therefore, per	Comment Status <b>D</b> ed' unless you require tha er ISO 9000, records kept that's probably expensive	t each and eve t proving it). If i	<i>EZ</i> ry part made shall be t's not a military, safety-
The specification didnt in Icable. There is no difference in	adress if it is Ipeak or lavg. To the models we used to calc	echnically it sho ulate the unbala	ould be Ipeak and not ance current for Type 1	SuggestedReme Get rid of all	edy 'shall be measu	ured' from the draft. For e	example, chang	e 'The specification for
and Type 2 systems; Th As a result, lunb for Typ lunbalance=3%*lcable	ne only difference is Icable. be 1 and Type 2 should be the or lunbalance=3%*lpeak	e same equatio	n i.e.	shall be mea other power	asured between pair.'	any conductor of one pov	wer pair and an	y conductor of the
SuggestedRemedy				'If measured	between any c	onductor of one power pa	ir and any cond	Juctor of the other
Use the same equation	for lunbalance in Type 1 and	Type 2.		power pair, t 1. The defin	the static output ition of VPort in	voltage VPort shall meet cludes line and temperate	the requirement the variations.'	nt of Table 33-11 item
Option 1 (recommended	d, supports legacy): 3%*Icabl	e for Type 1 an	d Type 2	Proposed Respo	onse Re	esponse Status W		
Option 2 (this is a worst used for Type 1 and 2): 3%*Ipeak for Type 1 an	case but is not required due d Type 2	to the fact that	the same model were	PROPOSED Assume this	ACCEPT IN P	RINCIPLE.		
Proposed Response PROPOSED ACCEPT	Response Status W IN PRINCIPLE.			C/ 33 SC Vetteth, Anoop	33.2.9.11	P <b>65</b> Cisco	L <b>38</b>	# 101
Discuss this.				<i>Comment Type</i> Eq 33-2 take	TR C es precedence c	Comment Status <b>D</b> over Table 33-7		EZ
Option 2 is worst-case a Type-1 but not required	and should be used for Type- (legacy would be broken).	<ol><li>It could also</li></ol>	be recommend for	SuggestedReme Change Tab	edy Ile 33-7 to Ea 33	3-2		
Option 3: Remove the a maximum power value.	ability for Type-2 PDs to draw The use Option 1.	ICUT for TovId	and have only one	Proposed Respo	onse Re	esponse Status W		
C/ 33 SC 33.2.9	P61	L <b>30</b>	# 32		33 2 9 12	P65	/ 51	# 26
	Cisco		<b>C7</b>	LANDRY, MATT	HEW	SILICON LABS	5	# 20
Typo sec should be s.	Comment Status D		EZ	Comment Type	E C	Comment Status D		EZ
SuggestedRemedy Typo sec should be s.				SuggestedReme	edy	<i>.</i>		
Proposed Response	Response Status W			Delete the w	ord altogether.			
PROPOSED ACCEPT.				Proposed Respo PROPOSED	onse Re ACCEPT.	esponse Status W		

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

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Cl <b>33</b> SC <b>33.2.9.</b> Darshan, Yair	5 P62 Microsemi Co	L23 rporation	# 50	C/ 33 SC 33.2.9.5 Schindler, Fred	Р <b>62</b> Cisco	L <b>44</b>	# 34
Comment Type ER Draft D3.2 POWER_ON is a sta	Comment Status D			Comment Type E Use better English.	Comment Status D		
"mode" is not define	d anywere n the draft.			Replace "truly" with "c	correctly."		
Suggested Remedy Scan the draft and re	eplace "mode" with STATE wher	never it is a stat	e in the state machine.	Proposed Response	Response Status W		
Proposed Response	Response Status W			PROPOSED ACCEP	T IN PRINCIPLE.		
PROPOSED ACCER	PT IN PRINCIPLE.			OBE 93.			
Correct on page 62.	Task editor to scan and replace	e "mode" with "s	tate" where approriate.				
C/ 33 SC 33.2.9. LANDRY, MATTHEW	5 P62 Silicon Lab	L <b>31</b> S	# 27				
Comment Type E "IPeak" is cut off on	Comment Status <b>D</b> the left side of the equation.		EZ				
SuggestedRemedy Re-wrap the equatio	n so it is visible in its entirety.						
Proposed Response PROPOSED ACCER	Response Status W						
Cl 33 SC 33.2.9. Schindler, Fred	5 <i>P</i> 62 Cisco	L36	# 33				
Comment Type E Do not use people w	Comment Status <b>D</b> vords for things.		EZ				
SuggestedRemedy Replace "RChan is t Table 33-1"	he channel resistance, whose w	orst case value	is RCh as defined in				
with							
Replace " RChan is a worst-case value c	the channel loop resistance as or Rch which is defined in Table	defined in 33.1. 33-1"	4. This parameter has				
Proposed Response	Response Status W						

PROPOSED ACCEPT.

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

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CI 33	SC	33.2.9.6	P <b>62</b>	L 41	# 65	C/ 33	SC	33.2.9.6	P <b>62</b>	L <b>41</b>	# 93
Darshan	, Yair		Microsemi Co	rporation		Vetteth, A	noop		Cisco		
Commer	nt Type	TR	Comment Status D			Comment	Туре	ER	Comment Status D		
Draf The	t D3.2 definitio	n of what is	startup mode (or POWER_L	JP mode per my	/ previous comment	The f defini	rst parag	graph in th nrush that	is section is not clear and i we adopted last time arour	night not be corre nd	ct based on the new
rega	rding the	e identity be	tween these two terms) is no	ot technically ac	tion to POWER UP	Suggeste	dRemea	ły			
state The used	and the Tinrush to set p	transition t _done or the power_appli	o POWER_ON state. conclusion of PD inrush cu ed true and allow transition t	rrent are only th o POWER_ON	e indicators that are	Chan Startu expira	ge to: Ip mode ation of 1	occurs be TInrush or	etween the PSE's transition the conclusion of PD inrus	to the POWER_L	IP state and; the er, for practical
Suggest	edReme	dy				imple of TIr	mentatic rush. sir	ons it is rea	commended that the startup	o mode persist for ascertain the cond	the complete duration clusion of a PD's inrush
Rep	ace the	first line in 3	33.2.9.6 from:			behav	ior.				
"Star of TI	rtup moo nrush oi	the conclus	etween the PSE transition to sion of PD inrush currents."	the POWER_U	P state and the lesser	Proposea PROI	Respon POSED	ise ACCEPT I	Response Status W		
to: "Stai POV The conc PDs Vpoi Note othe	rtup moo VER_UF indicatic clusion o may be may be t*linrush : PD efe r system	de (or POWI e state and t on for the co f PD inrush implemente n/Tinrush_m ective input on a capacitors	ER_UP mode) occurs betwee he transition to POWER_ON nclusion of POWER_UP mo currents that may last less the ed with lower efective capaci in in their input and different capacitor is the PD input cap that are reflected to the PD	en the PSE trar I mode. de is the lesser han Tinrush_mi tor value than startup implem pacitor during PO	nsition to the of TInrush or the n due to the fact that entations. DWER_UP state and WER_UP state"	Discu Startu expira Howe the co to con	ss this, s ip mode ation of 7 ver, for pomplete rectly as	93 and 34 occurs be Flnrush or practical ir duration o scertain the	combined to create: etween the PSE's transition the conclusion of PD inrush nplementations it is recomm f TInrush, as the PSE may e conclusion of a PD's inrus	to the POWER_L n currents. nended that the s not be able sh behavior.	IP state and either the tartup mode persist for
Propose	d Respo	nse	Response Status W								
PRC	POSED	ACCEPT I	N PRINCIPLE.								

OBE 93.

Most of this text explains why one implementation could monitor currents rather than use TInrush.

This related to 93 and 34.

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							·						
CI 33	SC	33.2.9.6		P <b>62</b>	L 43	# 66	C/ <b>33</b>	SC	33.2.9.6		P <b>62</b>	L <b>52</b>	# 46
Darshan,	, Yair			Microsemi Co	rporation		Darshan,	Yair			Microsemi C	orporation	
Commen	nt Type	TR	Comment	Status D			Comment	Туре	Е	Comment S	Status D		
Draft The The "How PSE The 1. Th matte depe 2. Th an in the in defin Just In the energy 1. PS	Draft D3.2 The intention of line 43 text i The text says: "However, startup exists for PSE may not truly ascertain The text contains few proble 1. The text "However, startup matter" can be understood th dependent (Capacitor value 2. The text "as the PSE may an implementation issue. So the inrush current and some define POWER_UP ending the Just for the record: In the IEEE802.3af, Tinrush_ energy need: 1. PSE is required to suppor required to charge this cap s 2. Due to the fact that PD D0 input during startup (at some increase hence additional tir		a text is good b this for the comp ertain the conc problems: startup exists f tood that actua value ,softsatr E may not truly ue. Some PSE some not. So nding by Tinrus nrush_min was support 180uF	mment Status       D         good but not clear enugh:				Items (d) and (e):         Ithe d): The 60mA value in item (d) should be a DC value due to the a short time interval between 10 to 30V and crosses classification ci stabilized within 5msec.         Item (e) is a low current value and also as good practice we care ab otherwise we will have to define ac current components and we don         SuggestedRemedy         Item (): Change to 60mAdc.         Item (): Change to 5mAdc.         Proposed Response       Response Status         W         PROPOSED REJECT.         This should be discussed.					
2. Du input incre resul This	to to the during ase her lting with explain	e fact that f startup (at nce additio h at least 2 s why it is l	PD DC/DC inc t some Vport_p onal time is req 20msec time m better that PSI	lude output cap od value), than t juired to supply nargin which is s E will be in POV	as well and its the effective inp sufficient energ sumed up to 50r VER_UP for at l	value is reflected to the ut capacitance is y during startup nsec. east Tinrush_min.							
Suggeste	edReme	ədy											
Char "How PSE	nge: vever, s may no	tartup exist ot truly asce	ts for the compertain the conc	plete duration of clusion of a PDs	f TInrush as a p s inrush behavio	ractical matter, as the r."							
To: "How the F that t PD ir at lea	vever, s PSE ma the PSE nput cap ast Tinn	tartup may y not truly a E may need pacitor or o ush_min du	vexists for the ascertain the o d to support the there other PD syste uration."	complete durati conclusion of a e worst case PC m capacitors th	ion of TInrush a PDs inrush beha DWER_UP ener at may prolongi	s a practical matter, as avior due to the fact gy required to charge ng the inrush current for							
Proposed	d Respo	onse	Response	Status W									
PRO	POSED	O ACCEPT	IN PRINCIPL	E.									
OBE	93.												

See 34, 65, and 93. This has different proposal for the same concern as 65. They are both from the same commentor.

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: Clause, Subclause, page, line

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C/ 33 SC 33.2.9.6 P63 L13 # 45	C/ 33 SC 33.2.9.7 P63 L43 # 69
Comment Type E Comment Status D	Comment Type TP Comment Status D
Draft D3.2 Figure 33-14: Figure 33-14 needs some editing work to align the correct lables to the relevant dashed	Draft D3.2 We need to synchronize the sliding window time text with the state machine text in "do_overload_detect" function.
lines	Change from:
SuggestedRemedy	"The cumulative duration of Tovld is measured with a sliding window of at least 1 second
<ol> <li>Add lable "0.4A" to the dashed line below the "0.45A" line.</li> <li>Move the text lable "linrush at Vport&gt;30V" between the "0.4A" and the "0.45A lines" See attached revised drawing Figure 33-14 in file "Figure 33-14 linrush current and timing limits in startup"</li> </ol>	width" To: "The cumulative duration of TovId is measured with at least one second sliding time width."
Proposed Response Response Status W	Proposed Response Response Status W
PROPOSED ACCEPT IN PRINCIPLE.	PROPOSED REJECT.
The figure is correct as shown. The dashed line below 0.45 A could be removed.	Discuss but I believe the existing text is fine. The new text reorders the words in the original sentence.
OR	C/ 33 SC 33 2 9 8 P65 / 20 # 54
Use the commentors suggestion and continue to label the 0 s point on the curve.	Darshan, Yair Microsemi Corporation
1. Add lablel "0.4A" to the dashed line below the "0.45A" line. 2. Move the text lable "linrush at Vport>30V" between the "0.4A" and the "0.45A lines" See attached revised drawing Figure 33-14 in file "Figure 33-14 linrush current and timing limits in startup"	Comment Type       T       Comment Status       D         Draft D3.2       Add a drawing that explains the dependence between Voltage and current at the PSE PI durint POWER_ON state.       Figure 33-15 covers only current vs time templates.         See attached example in PDF file "Figure 33-15A PI operating Voltage vs Current".
	SuggestedRemedy
	Change text in line 20 from: "If IPort exceeds the PSE lowerbound template, the PSE output voltage may drop below VPort min."
	To: "If IPort exceeds the PSE lowerbound template, the PSE output voltage may drop below VPort min. See figure 33-15a.
	Proposed Response Response Status W
	PROPOSED REJECT.
	The proposal forces a design requirement. The existing text permits the behavior proposed.

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<i>CI</i> <b>33</b> Darshan, Yai	SC <b>33.3.1</b> r	P <b>69</b> Microsemi Co	L 42 rporation	# 56	C/ <b>33</b> Jones, Ch	SC <b>33.3.2</b> ad	P <b>70</b> Cisco	L1	# 37	
Comment Ty Draft D3.	pe <b>TR</b> 2:	Comment Status D			Comment "Type	<i>Type</i> <b>E</b> 2 PDs impleme	Comment Status <b>D</b> ent both 2-Event Physical Layer	classification a	and Data Link Layer	ez
The note overall s	in line 42 pre- ystem efficience	cludes the ability to reduce po cy.	ower loss over th	e cable and increase	l know reader	we went through the classific	gh and removed all the links bu ation sections the first time we	it it seems appr mention it in the	opriate to point the PD section.	
Using a 24W ove In this ca which is	Type 2 PD tha r all 4 pairs wi use this PD can transparent to	t requires a total of 24W (exa th simple PD implementation n work on 2P PSE or on 2x2F the user.	mple) on a 2P c PSEs with the	an also take a toatal of same PD behaviour	Suggested Chang Type 2 Link L	<i>IRemedy</i> le to: 2 PDs implemer ayer classificati	nt both 2-Event Physical Layer on (see 33.6).	classification (s	see 33.3.5.2) and Da	ata
In addition the same	on let's assume power supply	e that in this case both pairs a y. This is a classical case in w	are comming from hich by using al	n the same box and I pairs we effectively	Proposed PROP	Response OSED ACCEP	Response Status W			
reduce th	ne channel pov	wer loss and allows interoperative	able and relaible	operation.	CI 33	SC 33.3.2	P <b>70</b>	L <b>5</b>	# 38	
If Icable	meet the spec	ification of 2P then I <icable c<="" td=""><td>ertaily meets the</td><td>e same specification so</td><td>Jones, Cha</td><td>ad</td><td>Cisco</td><td></td><td></td><td></td></icable>	ertaily meets the	e same specification so	Jones, Cha	ad	Cisco			
preventir	ng feeding the	current all over the 4 pairs do	esnt make sens	e.	Comment	Туре <b>т</b>	Comment Status D			
This is in opinion v machine	nplementation ve are not auth s of this standa	that is inline with the global entrized to preclude implementa ard.	ffort for reducing ations that meet	g power loss and in my the numbers and state	"A Typ Data L Find th	e 2 PD that do ink Layer class the correspondir	es not successfully observe a 2 ification must conform to Type ig shall.	2-Event Physica 1 PD power res	al Layer classificatio strictions"	n or
SuggestedRe	emedy						the corresponding shall. Will v	VILLIUIAW II IL AIR	eauy exists.	
Change	from:	mantanti Mada Alan Mada D		and all according to the la	Suggested	Remedy	viste make this normative			
standard	Ds that imple	ment only Mode A or Mode B Jultaneously require power fro	m both Mode A	and Mode B are	li no s					
specifica	lly not allowed	by this standard."			Proposed	Response				
To					FROF	USED ACCEP	I IN FRINGIFLE.			
"NOTE-F standard	PDs that imple	ment only Mode A or Mode B ultaneously require power fro	are specifically m both Mode A	not allowed by this and Mode B are	Sectio streng	n 33.3.5.2 (P75 then 33.2.2.	L29) provides for this requiren	nent, however it	t is not wrong to	
opooniou	ily not allowed	by the standard.			"Until	successful 2-Ev	ent Physical Layer classification	on or Data Link	Layer classification	has
PDs that	simultaneous	ly recieve power from both M	ode A and Mode	B are out of scope of	compl Type 2	eted, a 2 PD's pse pow	ver type state variable is set to	1. A Type 2 PD	) shall conform to th	ne
Proposed Re	sponse	Response Status W			electri	cal requirement	S 0.40 of the True defined in its			
PROPOS	SED REJECT				as der	ined by Table 3	3-18 of the Type defined in its	pse_power_type	e state variable."	
					Chang	e the reference	ed paragraph to:			
The prov change t 1& 2 PSI	ided example he base text. Es and type 1	would meet the requirements The exisitng text is necessary & 2 PDs. Change will cause	of the note. The note of the note of the note. The of the note of	ere is no reason to npatibility between type beyond the PAR.	"A Typ Data L	e 2 PD that do ink Layer class	es not successfully observe a 2 ification shall conform to Type	2-Event Physica 1 PD power res	al Layer classificatio strictions"	n or
Remove	the "Note" from	m this sentence to make the	normative nature	e clear.						

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: Clause, Subclause, page, line

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C/ <b>33</b> LANDRY, I	SC <b>33.3.3.3</b> MATTHEW	P <b>71</b> SILICON LABS	L18	# 17	<i>CI <b>33</b> LANDRY, I</i>	SC <b>33.3.3.</b> MATTHEW	3	P <b>71</b> SILICON LABS	L <b>34</b>	# 22
Comment preser	<i>Type</i> <b>E</b> nt_det_sig is out of	Comment Status D			Comment The st	<i>Type</i> <b>TR</b> ate variable, p	Comment se_dll_power_ty	Status <b>D</b>	n aMirroredDLLPc	owerType.
Suggestea Swap Proposed I PROP	Remedy present_det_sig w Response OSED ACCEPT.	ith present_class_sig Response Status W			Howev values which i The co If "map and the If "map extract Suggested [1] If th to be co Howev [2] pse 2 (10b 0 (00b) Note th [3] real 11b: T 10b: T 00b: T	ver, the values for aMirroredI is a two-bit bin oncept of "map oping" implies e "power type" oping" can, how t the needed p <i>IRemedy</i> ne "mapping" c changed. ver, ff the "map e_dII_power_ty ): Type 1 PSE ): Type 2 PSE nat this is a bit rrange the def ype 2 PD ype 2 PSE ype 1 PSE ype 1 PD av, the ose dI	pse_dll_power_y pse_dll_power_ DLLPowerType a ary value. ping" however, i 1-to-1 correspor TLV field is clea vever, also impl se_dll_power_ty oncept allows in ping" concept re pe could have th confusing (2=Ty nition of the "po	_type are listed as are derived from the is unclear to me. Indence, then this re- arly broken. y some logical tran /pe value from the intermediate unspect equires 1-to-1 correct he following values ype 1, 0=Type 2), s wer type" TLV field	Type 1 and Type e "power type" fie elation between p insformation, it is o "power type" TLV cified transformati espondence, ther s: so a more intuitive d:	2, whereas the eld of the TLV, use_dll_power_type obvious how to field. ion, nothing needs
					Proposed I PROP	Response OSED ACCEF	<i>Response</i> T.	Status W		
					Adopt	remedy choice	#3.			

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Vetteth, Anoop Cisco	C/ 33         SC 33.3.5.         P72         L17         # 18           LANDRY, MATTHEW         SILICON LABS
Comment Type E Comment Status D	Comment Type TR Comment Status D
This transition from DO_MARK_EVENT1 and DO_MARK_EVENT2 to IDLE is redundant since there is universal input to IDLE state when	Since the diagram only uses "VPort_PD < VMark_th" and "Vport_PD > VMark_th," it is not clear what happens when VPort_PD = VMark_th.
vpoit_PD < vReset	SuggestedRemedy
SuggestedRemedy	Universally replace "VPort_PD < VMark_th" with "VPort_PD <= VMark_th."
	Proposed Response Response Status W
Proposed Response Response Status W	PROPOSED REJECT.
PROPOSED REJECT.	Vmark this a range not a single value. Each end of the range is a valid value. The test
These transitions reinforce the "out" expected when the mark current tells a .af PSE to return to idle state.	conditions refer to values outside this range.
	C/ 33 SC 33.3.3.5 P72 L17 # 19
U 33 SU 33.3.3.5 P12 L10 # 98	LANDRY, MATTHEW SILICON LABS
	Comment Type E Comment Status D e:
Comment Type T Comment Status D	The rotated "VPort_PD" is, for some reason, typeset in Times New Roman.
the transition condition from IDLE state to DO_DETECTION is mdi_power_required. This condition is redundant since !mdi_power_required will ensure that you continued in state IDLE.	SuggestedRemedy Re-set it in Arial.
SuggestedRemedy	Proposed Response Response Status W
This transition condition should be: Vport_pd >= VReset	PROPOSED ACCEPT.
Proposed Response Response Status W	Cl 33 SC 33.3.3.5 P72 L 30 # 24
PROPOSED ACCEPT IN PRINCIPLE.	LANDRY, MATTHEW SILICON LABS
mdi_power_required is necessary condition since DO_DETECTION applies present_det_sig = true. The PD may not desire power. The right term would be mdi_power_required * (Vport = Vvalid).	Comment Type         TR         Comment Status         D         ex           The DLL diagram gets kicked off as soon as the PD enters MDI_POWER1. The DLL diagram could then quickly (within a few ms) receive a PSE TLV, which sets the pse_dll_power_type to 2. This lets the PD jump from MDI_POWER1 to MDI_POWER2.         ex
	All of this can easily happen before the tpowerdly_timer would have run out. Thus the PD will enter a high power mode prior to the PSE having exited its inrush period, resulting in an overload.
	SuggestedRemedy
	Do not skip the MDI_POWER_DLY state. Remove the existing pse_dll_power_type transition, and change the transition from MDI_POWER1 to MDI_POWER_DLY to (pse_power_type = 2)+(pse_dll_power_type = 2).
	Do not skip the MDI_POWER_DLY state. Remove the existing pse_dll_power_type transition, and change the transition from MDI_POWER1 to MDI_POWER_DLY to (pse_power_type = 2)+(pse_dll_power_type = 2).  Proposed Response Response Status W

Cl	33	
SC	33.3.3.5	

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C/ 33	SC 33.3.3.5	P <b>72</b>	L 30	# 23	CI 33	SC 33.3.4		P <b>73</b>	L <b>45</b>	# 74	
LANDRY, MA	ATTHEW	SILICON LABS	6		Darshan, '	Yair	Mi	crosemi Co	rporation		
Comment Ty	pe TR	Comment Status D			Comment	Type TR	Comment Stat	us <b>D</b>			ez
When the not initial MDI_PO	e PD is powering ized until the DL WER1.	g up, the pse_dll_power_typ L state diagram is started. T	e variable will h his happens af	ave no value, as it is ler the PD enters	Draft I Table Chang Round	D3.2 33-14: ge the minimum ling up the num	n value of Rdetect fro	om 23.8 TC ctice for wo	) 23.7 to support	t legacy.	
Logically	, if pse_dll_pow	er_type is undefined, then (p	se_dll_power_t	ype = 2) is still false.	Suggestee	Remedy					
CPU fror	n signaling that	the PD should enter MDI_PC	DWER2.	, preventing the nost	Chang	ge the minimum	n value of Rdetect fro	om 23.8 TC	) 23.7		
SuggestedRe	emedy	_			Proposed	Response	Response Stat	us W			
The PD I	nas another vari	able, dll_ready, that doesn't	get set until the	DLL state diagram has	PROF	OSED ACCEP	T IN PRINCIPLE.				
initialized MDI_PO This requ the same	I. This could be WER2: (pse_dll uires adding a do indeterminate l	used as an additional qualifi- _power_type = 2)*(dll_ready efinition for dll_ready to the F logic state argument may be	er to jump from ). PD state diagrar made.	MDI_POWER1 to n section. However,	Althou impler are re guard	igh the objectiv nentation appe ferenced as a p band to be with	e of using the same ars to "change" the part of the guardban in the allowable rang	number of requiremen d in line 37 ge.	significant digits its of 802.3-2005 just above table	s is a good practice, its 5. The original values 33-14, causing the	;
Proposed Re	esponse	Response Status W			Chan	no tablo 33-11 (	antrias for Rdatact m	ninimum to	23 75 and maxiu	num to 26.25	
PROPOS	SED ACCEPT IN	N PRINCIPLE.								num to 20.23.	
The h/w	diagram and var	riable definitions need initiali	zation		C/ 33	SC 33.3.4		P <b>73</b>	L9	# 40	
					Jones, Ch	ao <b>-</b>		-			
Add the f	following line to	the definition of pse_dll_pow	er_type (S 33.3	.3.3, P71 L 38)	Comment	lype E	Comment Stat	us D	ura whan in a me		ez
"Initialize	to a value of 1	as power is applied in state I	MDI_POWER1.	"	event	state per Figur	e 33-18."	lion signali		al K	
C/ <b>33</b> Darshan, Yai	SC <b>33.3.3.5</b> r	P <b>90</b> Microsemi Cor	L <b>3</b> poration	# 73	move valid s Suggestee	this sentence. statements toge	make it the third particular then adds mark	ragraph. th state after	is keeps the ger completing the	neral PD valid and nor thought.	1-
Draft D3	2 Figure 33-18.				move	this sentence.	make it the third par	ragrapn.			
We chan to differe Vport_PI	ge Vport to Vpo ntiate from PSE D in multiple loca	rt_PD at the state machine a Vport and yet Figure 33-18 aions.	and other location change to be w	ons in the text in order ith Vport and not	Proposed PROF	Response POSED ACCEP	Response Stati PT.	us <b>W</b>			
SuggestedRe	emedy										
Replace	Vport to Vport_I	PD in all locations in Figure 3	33-18								
Proposed Re	sponse	Response Status W									
PROPOS	SED REJECT.										
It appear	s this change ha	as been made in the draft. C	an the commer	ntor clarify?							

C/ 33 SC 33.3.4

				-				
Cl 33 SC 33.3.4 Schindler, Fred	P <b>74</b> Cisco	L <b>25</b>	# 35	Cl <b>33</b> Thompso	SC <b>33.3.6</b> n, Geoffrey	P <b>76</b> Nortel	L <b>12</b>	# 148
Comment Type E Figure 33-19 does not	Comment Status <b>D</b> t show los.			Comment D3.1	<i>t Type</i> <b>TR</b> comment 194	Comment Status D		
SuggestedRemedy				T do r The r	nethodology is col	ntrary to the well accepted a	nd proven practic	ces of 802.3
Add los to the y-axis.				Suggeste	dRemedy			
Proposed Response PROPOSED ACCEPT	Response Status W			Of the speci	e the 3 systems el fy only two.	ements, PSE, cabling, PD		
See proposed figure u	update MP_FIG33_19.			Proposed PRO	<i>l Response</i> POSED REJECT.	Response Status W		
Cl 33 SC 33.3.4 Darshan, Yair	P <b>92</b> Microsemi Co	L <b>39</b> prporation	# 51	The r	nethodology has s	served well since the release	of 802.3af in Ju	ne 2003 so it is not
Comment Type ER Figure 33-19 The dashed line comin the case.	Comment Status D	e it crosess the o	rigin which may not be	Addit on nc Comr comn docu	ionally, this is a ne o new work as of J menter is welcome nent for considera ment. We eagerly	w feature request. The TF I uly 08. New feature request to submit marked up sectio tion. This is not a trivial char await you suggested text.	has adopted the s require an according and new text nge as it would to	stance that it will take ompanying solution. required to implement ouch many parts of the
SuggestedRemedy					inenta ine eugeny			
1. Delete the dashed l definitions.	line part of the V-I slope. It is r	not required for t	ne Vofset and lofset	CI 33 Schindler	SC <b>33.3.7</b> , Fred	P <b>76</b> Cisco	L <b>34</b>	# 36
2. Add lable loffest at	the horizontal line croses the	iport axis.		Commen	t Type E	Comment Status D		
Proposed Response PROPOSED REJECT	Response Status W			Inforr	nation was lost wh	nen this parameter was made	e a numerical val	ue.
OBE Comment 35				Add t	he following note:	E - Pehan y Inort "		
CI 33 SC 33.3.5	P <b>74</b>	L <b>40</b>	# 41	Dranaaaa	/ Deenenee			
Jones, Chad	Cisco			Proposed PROI	POSED REJECT.	Response Status W		
"A PD shall meet one does anyone else wor only have to conform valid type 2 permutatio	of the allowable classification ry this is confusing to the read to one!" then read the table ar on that you automatically conf	permutations lis ler? Do they rea Id find that if you orm to one the T	ted in Table 33-8." d this and say, "oh, I conform to the one ype 1 permutations?	Can o	commentor tell us	why this is necessary or hov	v it contributes to	the meaning.
SuggestedRemedy			·· ·					
"A PD shall meet at le 8."	east one of the allowable class	ification permuta	tions listed in Table 33-					
Proposed Response PROPOSED ACCEP	Response Status W							

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CI 33	SC 33.3.7	P <b>77</b>	L17	# 25	CI 33	SC 33.3.7.2	2 P <b>7</b> 8	L7	# 52
LANDRY	′, MATTHEW	SILICON LAB	S		Darshan,	Yair	Micros	emi Corporation	
Commer	nt Type <b>T</b>	Comment Status D			Commen	t Type ER	Comment Status	D	
lf we repla	e have truly decide acing them with the	d to make tables more readab eir evaluated result, the Class	le by removing 4 PPeak_PD r	expressions and edds to be replaced.	The t line.	ext "within this ra	ange" may be unclear a	Ithough it can be und	derstood from the previous
Suggest	edRemedy				It is c	learer to replace	e it with "PClass_PD ran	ge" as used in the p	revious line.
Repl	lace:				Suggeste	edRemedy			
1.11	x PClass_PD				Chan "The	ge from: specification for	PClass_PD in Table 33	-18 shall apply for th	ne input power averaged
28.3	.:				over as de	1 second. PDs r escribed in 33.6.	nay dynamically adjust 1 '	neir required operat	ing power within this range
Propose	d Response	Response Status W			To <sup>.</sup>				
PRC	POSED ACCEPT	IN PRINCIPLE.			"The over	specification for 1 second. PDs r	PClass_PD in Table 33 nay dynamically adjust f	-18 shall apply for the the ir required operat	ne input power averaged ing power within
Chai	nge table 33-18 pe	er the recommendation.			PClas	ss_PD range as	described in 33.6.		
The	basis of this numb	er will be lost is we do not rec	ord it and its in	tent. Add the following	Proposed	l Response	Response Status	w	
sente	ence to S33.3.7.4,	P 79, L17:		iona i laa alo lononnig	PRO	POSED ACCEP	T IN PRINCIPLE.		
"Pea ratio	ak class 4 power is metric peak power	based on (1.11 * Pclass_PD) of Classes 0 through 3."	which approxi	mates the same	Chan	ge the first para	graph of 33.3.7.2 to:		
CI 33 LANDRY	SC <b>33.3.7.1</b> ⁄, MATTHEW	P <b>72</b> SILICON LAB	L <b>2</b> S	# 20	The r 33.6.1	naximum averaç 6.3, is calculateo	ge power, PClass_PD in d over a 1 second interv	n Table 33-18 or PDI al. PDs may dynan	MAXPowerValue in nically adjust their
Commer	nt Type E	Comment Status D		ez		num required of	beraung power below Fu	lass_FD as describ	eu in 55.0.
RCh	is not properly sul	bscripted.			C/ <b>33</b> Vetteth, A	SC 33.3.7.3	B P78 Cisco	L35	# 102
"The	PD shall turn on c	or off without startup oscillation	n and within the	e first trial at any load	Common	' τ Τνρο <b>ΤΡ</b>	Comment Status	п	07
Value	e when fed by rt min to VPort ma:	x (as defined in Table 33-11)	with RCh (as d	efined in Table 33-1)."	Shou	ld be linrush and	d not linrush_pd	0	<del>.</del>
Suggest	edRemedy				Suggeste	edRemedy			
Prop	erly subscript RCh	۱.			Chan	ige linrush_pd to	linrush		
Propose	d Response	Response Status W			Proposed	l Response	Response Status	w	
PRC	POSED ACCEPT				PRO	POSED ACCEP	т.		
See	page 78 L2.								

CI 33 SC 33.3.7.3

LANDRY.	SC <b>33.3.7.5</b> MATTHEW	P <b>98</b> Silicon Lab	L <b>2</b> S	# 21	Cl <b>33</b> Darshan, Y	SC <b>33.3.7.6</b> /air	P <b>80</b> Microsemi C	L <b>31</b> corporation	# 75
Comment	Type E	Comment Status D			Comment	Type TR	Comment Status D	orporation	ex
The T confu	F agreed that time sion. This equation	variables should be defined was not updated.	"in seconds," to	avoid possible	Draft D The in	)3.2 put voltage sou	rce upper limit is missing		
Suggeste	dRemedy				Suggested	IRemedy			
Chan	ge to "is the duration	on in seconds that the PD sir	ıks IPort."		Chang	e from:			
Proposed	Response	Response Status W			"The ir	nput voltage so	urce drives VPort_PD from 50	) V at 2250 V/s, t	he"
PROF	POSED REJECT.				To:				
Page of oth prese Comn	and line number d er variables in P80 nt. nentor to clarify.	o not agree with subclause a ) L2ff are not noted. Many of	ind the reference her references t	e is unclear since units o units in ms are	"The ir <i>Proposed I</i> PROP	nput voltage so <i>Response</i> OSED ACCEP	urce drives VPort_PD from 50 <i>Response Status</i> <b>W</b> T.	) V to 56V at 225	0 V/s, the"
C/ 33	SC 33.3.7.6	P80	/ 24	# 103	Propos	sed text was in	D3.1 and was inadvetently le	ft out.	
Vetteth, A	noop	Cisco		100	CI 33	SC 33.4.8	P <b>87</b>	L <b>50</b>	# 58
Comment	Type TR	Comment Status D		ez	Darshan, Y	/air	Microsemi C	orporation	
The s	entence says "A T	ype 2 PD shall meet one of t	he following:"		Comment <sup>-</sup> Draft D	<i>Type</i> <b>TR</b> 03.2	Comment Status D		
Both o	conditions need to	be met.			The cu	irrent text is not	clear regarding the fact that	the initial condition	ons are that the channel
Suggeste Chan	dRemedy ge to:				unbala from 3	ine is 3% and a % to a lower va	ctually the Midspan need to r lue.	educe the unbalr	nce factor of the channel
А Тур	e 2 PD shall meet	both the following:			Suggested	IRemedy			
Proposed PROF	Response POSED ACCEPT.	Response Status W			Chang "Altern	e line 50 from: ative A Type 2	Midspan PSEs that support 1	100BASE-TX sha	Ill ensure channel
This v	vas the content of	D3.1.			unbala	ince currents le	ss than or equal to Type 1 lui	nd (see Table 33	-11)."
					To: "Altern unbala 11)."	ative A Type 2 ince currents fr	Midspan PSEs that support 1 om Type 2 lunb to less than c	100BASE-TX sha or equal to Type 1	III reduce channel 1 Iunb (see Table 33-
					Proposed I	Response	Response Status W		
					PROP	OSED REJECT	Γ.		

COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	C/ <b>33</b>
SORT ORDER: Clause, Subclause, page, line		SC 33.4.8

3		

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CI 33	SC 33.4.8	P <b>87</b>	L <b>51</b>	# 76	C/ 33	SC 33.4.9.2	P <b>91</b>	L <b>23</b>	# 78
Darshan,	Yair	Microsemi Co	rporation		Darshan, '	Yair	Microsemi Co	orporation	
Comment	Type TR	Comment Status D			Comment	Type TR	Comment Status D		
We ai	re doing the same	e mistake we did in the past in the past in the past in the droop method (implement	1 which the 350u	H adhoc was formed	Equat	ion 33-18 need to	b be checked with 120uH PD	).	
OCL (	(specific implement	ntation).	ation independe		Suggestee	dRemedy			
In ord ALT A instea Switc	ler to achive 350u A Midspan is conn ad of specifying th h will work.	H (or its equivalent droop nu ected we forced implementa e Midspan output TX signal r	mbers) operatior ion (regulating l equirements so	n when Type 2 100BT unb to Type 1 levels) legacy recivers in the	See a Requi There <i>Proposed</i>	ttached results a rements below 1 is small adjustm <i>Response</i>	nd reccomendations in the a MHz for 120uH OCL operation ents required to Eq 33-18. Response Status <b>W</b>	ttached file "Mid on"	span/Channel
Suaaeste	dRemedv								
Set th See a altern	ne Midspan ad hoo attached file "Mids ative.	c to discuss it and propose a pan 100BT ALT A TX output	solution. signal template"	with possible	See 5 imbala	8, they both requance to <3%.	est that the Alt-A midspan be	e required to act	ively reduce the current
Proposed	Response	Response Status <b>O</b>			CI 33	SC 33.4.9.2	P <b>91</b>	L 29	# 57
, attach	, nment not included	d with the comments			Darshan, `	Yair	Microsemi Co	orporation	
					Comment	Type <b>TR</b>	Comment Status D		
C/ 33 Darshan,	SC <b>33.4.9</b> Yair	P <b>88</b> Microsemi Co	L10 rporation	# 77	Draft I Per th	D3.2 e last decisions i ormula	nade in September 2008 me	eting we need to	o delete the "0" in the
Comment	tType TR	Comment Status D			IDId5 I	ornula.			
The re	eferences in line 6	6-7 should be the same as sp	ecified in 33.1.4	.1 for Type 2.	Ratior	nal:			
Suggeste	dRemedy				If the 1 100B	Viidspan PSE is i 1 than the place	egulating the lunb to the Typ	oe 1 levels when value	operating in ALT A
Add tl "Type	he following text a 2 Midspan PSE o	fter line 10: cabling system requirements	are specified in	33.1.4.1"	(OCL 802.3	is kept to 350uH standard)	per the current specification	s for Type 1 sys	tems and the current
Proposed	Response	Response Status W			Suggestee	Remedy			
PROF	POSED ACCEPT.				Chang (0 + Iu	ge from: inb/2)			
CI 33	SC 33.4.9	P <b>88</b>	L <b>7</b>	# 127	Tai				
Dawe, Pie	ers	Avago Techn	ologies		(lunb/	2)			
Comment	t Туре <b>Т</b>	Comment Status D			Proposed	, Response	Response Status W		
ANSI/	/TIA-568-C used i	n 33.4.9, not in references.			PROF	OSED ACCEPT			
Suggeste	dRemedy								
Add A Add p	ANSI/TIA-568-C to parts C.0, C.2 also	1.3 Normative references.							
Proposed PROF	Response POSED ACCEPT	Response Status W IN PRINCIPLE.							
Add A	ANSI/TIA-568-C to	1.3 Normative references							

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: Clause, Subclause, page, line

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C/ 33         SC 33.4.9.2         P91         L 29         # 128           Dawe, Piers         Avago Technologies	C/ 33         SC 33.5.1.1.2         P93         L 20         # 131           Dawe, Piers         Avago Technologies
Comment Type <b>T</b> Comment Status <b>D</b> You say 'Additionally, the requirements will be met with'	Comment TypeTComment StatusDezSometimes text has '1' or '0', sometimes logic one or logic zero. Why the mixture?
SuggestedRemedy         Do you mean are met or shall be met?         Which requirements? Just the Midspan signal path requirements or more than that?         Proposed Response       Response Status         W         PROPOSED RELIECT	SuggestedRemedy In the text, change '1' or '0' to one or zero. Proposed Response Response Status W PROPOSED ACCEPT.
Do you mean are met or shall be met? It says will be met, this is on purpose. If we meant shall, it would say shall. Which requirements? Just the Midspan signal path requirements or more than that?	C/ 33       SC 33.5.1.1.2       P93       L 34       # 130         Dawe, Piers       Avago Technologies       Example 1       Example 1       Example 1         Comment Type       T       Comment Status       D       ez         Removing some clutter.       Compare Clause 45.       Example 1       Example 1
Cl 33     SC 33.5.1.1.1     P92     L 54     # 129       Dawe, Piers     Avago Technologies	SuggestedRemedy Change all 'logic one' to 'one', all 'logic zero' to 'zero' Proposed Response Response Status W PROPOSED ACCEPT.
You say 'the management entity should write to reserved bits with a value of '0' and ignore reserved bits on read.' I don't know why you are encouraging it to write or read reserved bits.  SuggestedRemedy Ask an expert, but here's my suggestion: change to 'if the management entity writes to a reserved bit, it should use with evalue of '0' and if it reads a reserved bit, it should use with evalue of '0'.	Cl 33 SC 33.5.1.1.4 P94 L16 # 132 Dawe, Piers Avago Technologies Comment Type T Comment Status D Text contradicts Table 33-21
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	SuggestedRemedy Reconcile Proposed Response Response Status W PROPOSED REJECT.
suggested text is fine so long as we are consistant throughout	Text seems to match the enable modes defined in the table. The commenter is invited to clarify the contradiction further.

C/ 33 SC 33.5.1.1.4 Page 35 of 39 11/11/2008 9:44:59 AM

C/ 33         SC 33.6.2.2         P99         L13           Vetteth, Anoop         Cisco	# 94	C/ 33 SC 33.6.6 Vetteth, Anoop	.2 P101 Cisco	L	# 105
Comment Type ER Comment Status D When we crafted lines 17-19 in Seoul, the intent was to use just those description of PD requested power value field (just like how we did for The intent was to act rid of oprior tout	lines as the the PSE section).	Comment Type TR If my comment on Ili and more accurate of	Comment Status D im/Tlim (avetteth_PSE_Curren definition of PSE_INITIAL_VAL	it_Limit.pdf) is ac .UE is shown in r	cepted, then a better remedy
SuggestedRemedy         Remove lines 13-15 since the information is redundant.         Proposed Response       Response Status         W         PROPOSED ACCEPT.		SuggestedRemedy parameter_type m 1 0 130 1 1 39 1 2 65 1 3 130	r_pd_class_detected PSE_IN	ITIAL_VALUE	
C/ 33       SC 33.6.6       P100       L49         Darshan, Yair       Microsemi Corporation         Comment Type       TR       Comment Status       D         The text "The power control state diagrams for PSEs and PDs specify observable behavior of a PSE and PD" is true for all state diagrams delete this text from 33.2.4.7	# 79 the externally as well however we	1 4 130 2 4 255 All other combinatio <i>Proposed Response</i> PROPOSED ACCE Consider after comr	ns are not permissible for com <i>Response Status</i> <b>W</b> PT IN PRINCIPLE. nent on avetteth_PSE_Current	pliant implementa t_Limit.pdf	ations.
SuggestedRemedy Add the following text at the beining of each state diagram clause: "The following state diagram specify the externally observable behavior Editor to use the relevant term per the relevant clause) Proposed Response	or of a PSE. (or a PD,	Cl 33 SC 33.6.6 Vetteth, Anoop Comment Type TR	.2 P101 Cisco Comment Status D	L <b>20</b>	# 104
PROPOSED ACCEPT IN PRINCIPLE. The text the commenter is referring to is there and has not been remov is invited to clarify further if needed.	ed. The commenter	Constant PD_INITIA Due to some change constant needs to be SuggestedRemedy This value is derived	AL_VALUE es to definition of pd_max_pow e updated:	ver during the las	t commenting cycle this
a 00 comment.	iù be calegonzeù as	state diagram (Figur pd_max_power F 0 <=130 1 <=39 2 <=65 3 <=130 4 <=255 Proposed Response	re 33-18) PD_INITIAL_VALUE Response Status W	(00.0.0) van	
		PROPOSED ACCE	PT.		

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: Clause, Subclause, page, line

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C/ 33         SC 33.6.6.2         P101         L 36         # 53           Darshan, Yair         Microsemi Corporation	C/ 33 SC 33.6.6.5 P103 L45 # 106
Comment Type ER Comment Status D I can't find were the variable PSE_INITIAL_VALUE is used SuggestedRemedy L2 ad hoc to show were it is being used in the state machine Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	Comment Type       TR       Comment Status       D         The function examine_request also returns the variable PSE_New_Value just like the function pse_power_review         SuggestedRemedy         Copy from pse_power_review         Proposed Response       Response Status       W         PROPOSED ACCEPT.
Cl 33         SC 33.6.6.3         P102         L1         # 109           Vetteth, Anoop         Cisco	C/ 33     SC 33.6.6.6     P104     L1     # 107       Vetteth, Anoop     Cisco
Comment Type         TR         Comment Status         D           All Power Values have max value of PD_DLLMAX_VALUE. Only the PD is forbidden from requesting for more power than it advertized over hardware classification. Forcing max value for all variables to PD_DLLMAX_VALUE is not correct since this variable is defined only for the PD and not the PSE.           According to how it is written now; a PSE that lets a misbehaving PD draw more than what it negotiated using hardware classification is also non-compliant. The PSE is allowed to advertise anything it wants.           SuggestedRemedy	The entry condition to INITIALIZE state for PSE should be: !pse_dll_enabled + !pse_dll_ready for PD state diagram should be: !pd_dll_enabled + !pd_dll_ready SuggestedRemedy Fix this Proposed Response Response Status W PROPOSED ACCEPT.
Change the max value for all power variables other than PDRequestedPowerValue from PD_DLLMAX_VALUE to 255. A better alternative would be to use a constant for 255 so that it will be easier to change this in future.	C/ 33         SC 33.6.6.6         P105         L1         # 108           Vetteth, Anoop         Cisco
Proposed Response       Response Status       W         PROPOSED ACCEPT IN PRINCIPLE.       Change the max value for all power variables other than PDRequestedPowerValue from PD_DLLMAX_VALUE to 255.	Comment Type       TR       Comment Status       D         The assignment       pse_dll_power_type <= 1

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C/ 33	SC <b>33.6.7.1</b>	P <b>106</b> Cisco System	L <b>26</b>	# 83	Cl <b>99</b> Dawe Pie	SC 99		P <b>10</b> Avago Techr	L <b>49</b>	# 138
Comment Add t	t <i>Type</i> <b>T</b> he following sente	Comment Status D nce to add more clarity to the	e description.		Comment There	<i>Type</i> E is a newer	versio	Comment Status D	lologico	θZ
Suggeste In the that th local_ Proposed	dRemedy case, when PSE here is a request p syatem_chage ha Response	wants to initiate a change to bending from PD with a new p is a higher priority over the P <i>Response Status</i> <b>W</b>	the PD power a power number, t D's request.	llocation and PSE sees he PSE's	Suggester Ask P Proposed PROF	dRemedy 802.3av for Response POSED ACC	it CEPT.	Response Status W		
PROF	POSED REJECT.				<i>Cl</i> <b>99</b> Dawe, Pie	SC 99		P <b>2</b> Avago Techr	L <b>1</b> nologies	# 135
C/ 33	SC 33.6.7.2	<i>P</i> 106	L <b>34</b>	# 89	<i>Comment</i> Abstra	<i>Type</i> <b>T</b> act and keyv	words	Comment Status D		
Comment Missi	f <i>Type</i> E ng "if"	Comment Status D			Suggester Pleas they g	<i>dRemedy</i> e provide th get some rev	iese foi view.	r next recirculation, or at the	e latest at openir	ıg of Sponsor Ballot, so
Mirron S <i>uggeste</i> Fix th	redPSEAllocatedP <i>dRemedy</i> is	owerValue or if local_systen	n_change		Proposed PROF Editor	Response POSED ACC	CEPT I to add	Response Status W N PRINCIPLE. in the next recirc.		
Proposed PROF	Response POSED ACCEPT.	Response Status W			<i>Cl</i> <b>99</b> Dawe, Pie	SC 99		P <b>3</b> Avago Techr	L <b>8</b> nologies	# 136
C/ 33 Vetteth, A	SC <b>33.6.7.2</b>	P <b>106</b> Cisco	L <b>42</b>	# 90	Comment One e	<i>Type</i> <b>E</b> exceptions, o	concio	Comment Status X		ez
Comment Seco	t <i>Type</i> <b>E</b> nd Paragraph is re	<i>Comment Status</i> <b>D</b> edundant			Suggeste One e	dRemedy exception, co	onscio	usly		
S <i>uggeste</i> Strike	dRemedy e it				Proposed PROF	Response POSED ACC	CEPT I	Response Status W N PRINCIPLE.		
Proposed PROF	Response POSED ACCEPT.	Response Status W			chang is con	ge first sente sciously use	ence of ed to s	second paragraph on page	e 3 to: "One exce	eption to IEEE style that

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-								
C/ 99	SC 99	)	P <b>4</b>	L3	5	#	134	
Dawe, Pie	rs		Avago	Technologies				
Comment	Туре	E	Comment Status	D				ez
l doub	t that erra	ita for a	Il the world's standard	s are available a	it this URL.			
Suggested	Remedy							
Chang	je 'all oth	er stand	ards to all other IEEE	standards'				
Proposed PROP	Respons OSED A	∍ CCEPT	Response Status	W				
C/ 99	SC 99	)	P4	L <b>5</b>		#	137	
Dawe, Pie	rs		Avago	Technologies				
Comment .Sectio	<i>Type</i> on	E	Comment Status	D				
Sectio Line 1 Frame Line 1 Line 2 Line 2	n 2, 10 spli e option to 8, change 3, use ne 4, change	t from C stop s of the w .3av of pera	ib/s over a line break. being split from Gb/. IEEE Std 802.3 stand clause numbers (75 to tion point-to-multipoint	Use non-breakir lard with' to 'of IE 77, 75A, 75B, 7 t' to 'operation or	ng space and EEE Std 802 ′5C, 76A) n point-to-mu	d if ne .3 with ultipoir	cessary, ' n' nt'	the
Proposed	Respons	Э	Response Status	w				
PROP	OSED A	CCEPT	IN PRINCIPLE.					
Multip	le comme	ents in c	ne comment:					
1: rem	iove leadi	ng perio	od from the word Secti	ion on line 5.				
2: use stop s	a non-br being sp	eaking : it from	space for 10Gb/s at lin Gb/.	e 12 and if nece	essary, the F	rame	option to	
3: cha	nge 'of th	e IEEE	Std 802.3 standard wi	th' to 'of IEEE St	td 802.3 with	n' at lin	ie 18/19	
4: Line	e 23, use	new .3a	v clause numbers (75	to 77, 75A, 75B	, 75C, 76A)			
5: Line	e 24, char	nge 'ope	eration point-to-multipo	pint' to 'operation	on point-to-	multip	oint'	

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