C/FM SC FM	P19	L 2	# r02-24	C/ 1	SC 1.4.33	8 P:	24	L 40	# r02-10
Yseboodt, Lennart	Philips Lighting		" IVE 24	Jones, Cha			o System	-	
Comment Type E OOS	Comment Status D		Editorial		this definition	Comment Status n without the editing ins cing Equipment (PSE):	structions	`	, ,
Missing space in TOC SuggestedRemedy Add space Proposed Response	: 145.2.10 PSE Maintain Response Status W			power twistec IEEE S single device	to a single lin I-pair PHYs. \ Std 802.3, Cla 10BASE-T, 1 with a unified		efined for pair balan 5, Power o SE-T, 2.50 data it rec	use with two diff need twisted-pair over Ethernet is SBASE-T, 5GBA quires and the po	erent types of balanced r (BASE-T) PHYs, see intended to provide a SE-T, or 10GBASE-T ower to process these
PROPOSED ACCEPT C/ 1 SC 1.4.289 Thompson, Geoffrey	Г. Р 24 Individual	L 29	# r02-85	Clause 1000B proces	e 104), Power ASE-T1 devid	over Data Lines is inte e with a unified interfa	ended to p ce for bot	provide a single f	100BASE- T1 or
	Comment Status X section" has been updated in t therefore the change to the ba t needed.			The Po senten	DE sentence r Ice. Without t	ose to use a different s eads poorly. Restore th he parenthesis around sing a period after 'Cla	he PoDL s the pointe	sentence constru	uct to the PoE
Interface (PI) and the SuggestedRemedy	o the base standard detailed or			802.3, 10BAS with a to: Wh Clause T, 100	e: When used Clause 33 an SE-T, 100BAS unified interfa en used with 33 and Clau BASE-TX, 10	ce for both the data it r	ver Ether 5GBASE requires a visted-pair thernet is 5-T, 5GBA	The tis intended t T, 5GBASE-T, and the power to (BASE-T) PHY intended to prov SE-T, or 10GBA	to provide a single or 10GBASE-T device process these data. s (see IEEE Std 802.3, <i>r</i> ide a single 10BASE- ASE-T device with a
				Proposed I		Response Status			

PROPOSED ACCEPT.

Pa **24** Li **40**

C/ 1 Anslow, Pe	SC 1.4.338	P 24 Ciena Corpor	L 46	#	r02-2	C/ 30 Anslow, Pe	SC 30.2.5		P 31 Ciena Corpo	L 47 ration	# r02	2-3
Comment		Comment Status D			Editorial	Comment		Comment S	•			Editorial
The te differe DTE p	xt on line 46 is ". nt from the text o	, Power over Data Lines is f 1.4.338 as modified by IEE led to provide a) and the o	E Std 802.3bu-	2016 whic	h has " ,	There encom signific	are two "delete" passing editing cant number of a a simple "Chang	instruction "Cha additions to the	ange Table 30 table that are	0-4 as follows:" S not mentioned, i	Since there ar	
Suggested	Remedy					Suggested	lRemedy					
Show '	'DTE powering" i	n strikethrough font and "Po	ower over Data L	ines" in ur	nderline.		ve "Delete the "o Package (manda					e "PD
Proposed I PROP	Response OSED ACCEPT.	Response Status W				"aPSE leaving	ShortCounter" ir g just "Change T	n Table 30-4." able 30-4 as fo	llows:"			
C/ 1	SC 1.4.418ad	I P 25	L 33	#	r02-123		he "PD Basic Pa he aPSEShortC				n font.	
Darshan, Y			200	"	102 120	remov	e the underline a				these show u	p as dots
Comment	Туре Т	Comment Status X			Definitions	in the Proposed		Deenenee				
and 4-	pair power. (See		·				OSED ACCEPT	Response S	alalus w			
		not accurate. Type 4 is a PS ackwards compatibility.	SE that supports	s Class 8 p	ower level	CI 30	SC 30.9.1.1.	2	P 38	L 25	# r02	2-4
Suggested	Remedy					Anslow, Pe	eter		Ciena Corpo	ration		
MPS, a To "1.4	and 4-pair power 1.418ad Type 4 F	d Type 4 PSE: A PSE that s . (See IEEE 802.3, Clause 1 PSE: A PSE that supports C , and 4-pair power. (See IEE	145)." lass 8 power lev	vels in addi		to loca	references in 30 tions in 33.5 are		h 30.9.1.1.5, 3			
Proposed I		Response Status W	,	/		Suggested	-	tomal to these				
oos	•	,					character tag Ex			elerences.		
This ne	eeds to be chang	ed as we lowered Ptype for	Type 4 to 75W.			Proposed PROP	Response OSED ACCEPT	Response S -	itatus W			
		ype 4 PSE: A PSE that sup sses, short MPS, and 4-pai				Cl 30 Anslow, Pe	SC 30.9.1.1.	8a	P 42 Ciena Corpo	L 47 ration	# r02	2-5
						<i>Comment</i> spurio	<i>Type</i> E us space in "s ut	Comment S bclause"	Status D			Editorial
						Suggested Remo	<i>IRemedy</i> ve the space					
						Proposed PROP	Response OSED ACCEPT	Response S	tatus W			
TYPE: TR/	technical require	d ER/editorial required GR	/general require	d T/techni	ical E/editorial G/	general			Pa 4	2	Page	e 2 of 37
		patched A/accepted R/reje	• •			0	U/unsatisfied	Z/withdrawn	Li 4			9/2017 4:55:3

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn LI 47 SORT ORDER: Page, Line

12/19/2017 4:55:37 PM

C/ 30 SC 30.12.2.										
Darshan, Yair	1.18h	P 49	L 54	# r02-127	<i>Cl</i> 30 Darshan, Ya	SC 30.12.3.1 . air	.18h	P 60	L 49	# r02-128
Comment Type T	Comment S	tatus D		Management	Comment T	<i>уре</i> т	Comment	Status D		Manage
Type 3 and 4 PSE wh class 0 is ignored in th						and 4 PSE whe is ignored in the				t as well. Currently, 3 as the same.
SuggestedRemedy					SuggestedF	Remedy				
In page 50 line 2 char To: "class3 Class 0, c		8 Class 3"				60 line 52 chan ss3 Class 0, or		ss3 Class 3"		
Proposed Response	Response St	tatus W			Proposed R	Response	Response	Status W		
PROPOSED REJECT	Г.				PROPC	SED REJECT.				
This field is the Exten	,	ed by Type 3 a	nd 4. L 2	# <u>r02-105</u>	This fie Cl 33 Anslow, Pet	Id is the Extende		sed by Type 3 P 76 Ciena Corpor	L18	# <u>r02-7</u>
		_					_	•	allon	
Comment Type E	Comment S	tatus D		Editorial	Comment T	ype ER	Comment	Status D		Edi
	"huto fthat " tur	a in the "fthe"			22 4 0 4	1	and 22 4 0 1h		alawaaa haina i	nearted by the DOOD
		oo in the "ftha"				ment. Conseque			0	nserted by the P802. e strikethrough and
SuggestedRemedy change to "A SET atri		oo in the "ftha"			amendr	ment. Consequence font.			0	,
SuggestedRemedy	bute that" Response St	tatus W			amendr underlir SuggestedF Delete t	ment. Conseque ne font. Remedy	ently, the sub n subclause n	clause numbers umbers (they n	s should not use	,
SuggestedRemedy change to "A SET atri Proposed Response PROPOSED ACCEP OBE by 6	bute that" <i>Response St</i> T IN PRINCIPLE	tatus W			amendr underlir SuggestedF Delete t remove Proposed R	ment. Consequence font. Remedy the strikethrough the underline fr	ently, the sub n subclause n om the inserte <i>Response</i> 3	clause numbers umbers (they n ed subclause n	s should not use	e strikethrough and
SuggestedRemedy change to "A SET atri Proposed Response PROPOSED ACCEP OBE by 6 C/ 30 SC 30.12.2.	bute that" <i>Response St</i> T IN PRINCIPLE 1.18p	P52	L 2	# <u>r02-6</u>	amendr underlir SuggestedF Delete t remove Proposed R PROPC	ment. Consequence font. Remedy the strikethrough the underline fr Response DSED ACCEPT.	ently, the sub n subclause n om the inserte <i>Response</i> 3	clause numbers umbers (they n ed subclause n Status W	s should not use never existed in umbers.	e strikethrough and the base document)
SuggestedRemedy change to "A SET atri Proposed Response PROPOSED ACCEP OBE by 6 C/ 30 SC 30.12.2.	bute that" <i>Response St</i> T IN PRINCIPLE 1.18p	tatus W P 52 Ciena Corporat			amendr underlir SuggestedF Delete t remove Proposed R	ment. Consequence font. Remedy the strikethrough the underline fr Response DSED ACCEPT. SC 33.4.9.1b	ently, the sub n subclause n om the inserte <i>Response</i> 3	clause numbers umbers (they n ed subclause n	s should not use never existed in umbers.	e strikethrough and
SuggestedRemedy change to "A SET atri Proposed Response PROPOSED ACCEP OBE by 6 2/ 30 SC 30.12.2. Inslow, Peter Comment Type E	bute that" <i>Response St</i> T IN PRINCIPLE 1.18p	tatus W P 52 Ciena Corporat		# <u>r02-6</u> Editorial	amendr underlir Suggestedf Delete t remove Proposed R PROPC	ment. Consequence font. Remedy the strikethrough the underline fr Response DSED ACCEPT. SC 33.4.9.1b Brett	ently, the sub n subclause n om the inserte <i>Response</i> 3	clause numbers umbers (they n ed subclause n S <i>tatus</i> W P 76 Marvell Semio	s should not use never existed in umbers.	e strikethrough and the base document)
SuggestedRemedy change to "A SET atri Proposed Response PROPOSED ACCEP OBE by 6 C/ 30 SC 30.12.2. Inslow, Peter Comment Type E typo "fthat"	bute that" <i>Response St</i> T IN PRINCIPLE 1.18p	tatus W P 52 Ciena Corporat			amendr underlir Suggestedf Delete t remove Proposed R PROPC CI 33 Mcclellan, E Comment T	ment. Consequence font. Remedy the strikethrough the underline fr Response DSED ACCEPT. SC 33.4.9.1b Brett	ently, the sub n subclause n om the inserte <i>Response s</i> <i>Comment</i>	clause numbers umbers (they n ed subclause n Status W P 76 Marvell Semio Status D	s should not use never existed in umbers. <i>L</i> 24 conductor	e strikethrough and the base document) # <u>r02-142</u> <i>Ed</i>
SuggestedRemedy change to "A SET atri Proposed Response PROPOSED ACCEP OBE by 6 C/ 30 SC 30.12.2. Anslow, Peter Comment Type E typo "fthat" SuggestedRemedy	bute that" <i>Response St</i> T IN PRINCIPLE 1.18p	tatus W P 52 Ciena Corporat			amendr underlir Suggestedf Delete t remove Proposed R PROPO C/ 33 Mcclellan, E Comment T LATE C	ment. Consequence font. Remedy the strikethrough the underline fr Response DSED ACCEPT. SC 33.4.9.1b Brett Type E COMMENT is 1	ently, the sub n subclause n om the inserte <i>Response s</i> <i>Comment</i>	clause numbers umbers (they n ed subclause n Status W P 76 Marvell Semio Status D	s should not use never existed in umbers. <i>L</i> 24 conductor	e strikethrough and the base document) # <u>r02-142</u> <i>Ed</i>
SuggestedRemedy change to "A SET atri Proposed Response PROPOSED ACCEP OBE by 6 C/ 30 SC 30.12.2. Anslow, Peter Comment Type E typo "fthat" SuggestedRemedy delete the spurious f	bute that" Response St T IN PRINCIPLE 1.18p Comment S	tatus W P 52 Ciena Corporat tatus D			amendr underlir Suggestedf Delete f remove Proposed R PROPO C/ 33 Mcclellan, E Comment T LATE C Suggestedf	ment. Consequence font. Remedy the strikethrough the underline fr Response DSED ACCEPT. SC 33.4.9.1b Brett Type E COMMENT is 1	ently, the sub- n subclause n om the inserte <i>Response s</i> <i>Comment</i> limited is unne	clause numbers umbers (they n ed subclause n Status W P76 Marvell Semio Status D ecessary and n	s should not use never existed in umbers. <i>L</i> 24 conductor	e strikethrough and the base document) # <u>r02-142</u> <i>Ed</i>
SuggestedRemedy change to "A SET atri Proposed Response PROPOSED ACCEP OBE by 6 C/ 30 SC 30.12.2. Anslow, Peter Comment Type E typo "fthat" SuggestedRemedy	bute that" Response St T IN PRINCIPLE 1.18p Comment S Response St	tatus W P 52 Ciena Corporat tatus D			amendr underlir Suggestedf Delete f remove Proposed R PROPO C/ 33 Mcclellan, E Comment T LATE C Suggestedf	ment. Consequence font. Remedy the strikethrough the underline fr Response OSED ACCEPT. SC 33.4.9.1b Brett Sype E COMMENT is Remedy is limited" as wa	ently, the sub- n subclause n om the inserte <i>Response s</i> <i>Comment</i> limited is unne	clause numbers umbers (they n ed subclause n Status W P76 Marvell Semic Status D ecessary and n 5.4.9.4	s should not use never existed in umbers. <i>L</i> 24 conductor	e strikethrough and the base document) # <u>r02-142</u> <i>Ed</i>

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C/ 33 Anslow, Pe	SC 33.6.3.3	P 78 Ciena Corpora	L 2 Ition	# r02-8	C/ 79 Yseboodt,	SC 79.3.2 Lennart	P 86 Philips Lighti	L 22 ng	# r02-143
Comment	Type ER	Comment Status D		Editorial	Comment	Туре Т	Comment Status D		LLDP
		says "Change 33.6.3.3 as foll definitions from TempVar thr			LATE OOS	COMMENT			
Suggested	lRemedy				Figu	ro 79-3 save that	the TLV information string le	anath-29	
move		desired to show a large numb ction to be after the heading f		ed definitions:	This is		he complete set of fields is s		tance is NEVER true for
		ruction to "Change the first ni	ne definitions ir	n 33.6.3.3 as follows:"	Suggeste	dRemedy			
		ph of 33.6.3.3, add an editing	g instruction: "C	Change the last		5	second field of the TLV head	ler to "TLV infor	mation string length"
Proposed	aph of 33.6.3.3 a					TLV information	at the bottom of the figure: string length is:		
•	OSED ACCEPT.	Response Status W				sic fields: 7 octets			
FROF	USED ACCEPT.						classification extension: 12		4 extension: 29 octets"
CI 79	SC 79.3.2	P 86	L 15	# r02-25		Response	Response Status W	,	
Yseboodt,	Lennart	Philips Lightin	g			, POSED ACCEPT.	,		
Comment	Туре Т	Comment Status D		Maintenance					
OOS					C/ 79	SC 79.3.2.3	P88	L 34	# r02-11
"The [) classification	extension fields and Type 3	and Type 4 ext	ension fields shown in	Jones, Ch	ad	Cisco System	ns, Inc.	
		d by the PSE only when it is			Comment	Type E	Comment Status D		Editorial
within	an MDI and by th	e PD only when it is drawing	power from the	e PI."			e the change from 'power cla sed one in the last sentence		lass' to capitalize the
	e a PD connecte because midspa	ed through a Midspan (supply	ing power) to a	PSE (not supplying	Suggeste	dRemedy			
		oE TLVs, whatever value it p	uts in the PSE	AllocatedPowerValue	chang	je 'power class' to	'Power class' on line 34.		
	be wrong.				Proposed	Response	Response Status W		
Hence	the quoted state	ment, saying this is not allow	ed.		PROF	OSED ACCEPT.			
Becau		n" is used, when it needs to b d remedy would create a new apport.		n legacy devices, an					
Suggested									
Chang "The D Figure	le sentence to sa DLL classification 79-3 shall not be	y: extension fields and Type 3 ; sent by the PSE unless it is e PD unless it is drawing poy	supplying pow	er to a PI encompassed					
Proposed	,	Response Status W							
	OSED REJECT.								
As the	commentor state	es, this needs to be handled	hrough the ma	intenance process.					
	technical require	d ER/editorial required GR/	neneral require	d T/technical E/editorial G/o	eneral		Pa 8	8	Page 4 of 37
		patched A/accepted R/reject						-	12/19/2017 4:55

SORT ORDER: Page, Line

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Cl 79 SC 79.3.2.6C.3 P 92 L 50 # r02-126 Darshan, Yair	C/ 79 SC 79.3.2.6d P 94 L 9 # r02-145 Yseboodt, Lennart Philips Lighting Philips Lighting Philips Lighting Philips Lighting
Comment Type T Comment Status D LLDP In Table 79-6e, last item Power Class Ext class 0 need to be supported as well by Type 3 and 4. Two options for solution: a) bits 0000; It should be class 0 and not Reserved/Ignored OR b) change "0011= class 3" to "0011=class 0, 3"	Comment Type T Comment Status D LLDF LATE COMMENTIn Table 79-6f, "Power Type ext", the bit value 100 is missing (due to removing Type 1 / Type 2 stuff). SuggestedRemedy Change bit numbering such that it counts up properly.
SuggestedRemedy Option 1: Change bits 0000 from Reserved/Ignored to class 0	Proposed Response Response Status W PROPOSED ACCEPT.
Option 2 (preferred): Change "0011= class 3" to "0011=class 0, 3"	C/ 79 SC 79.3.2.6e P 94 L 42 # r02-146 Yseboodt, Lennart Philips Lighting
Proposed Response Response Status W PROPOSED REJECT. There is no requested Class 0 for Type 3 PDs and Type 3/4 PSEs do not assign Class 0. This field is the Extended field only used by Type 3 and 4.	Comment Type E Comment Status D LLDF LATE COMMENTThe field "PSE maximum available power" should be called "PSE maximum available power value" in line with PSE allocated power value, because the power value is expressed in 1/10th of a Watt, not in Watt directly. SuggestedRemedy
Cl 79 SC 79.3.2.6d P 93 L 51 # r02-26 Yseboodt, Lennart Philips Lighting	Change "PSE maximum available power" to "PSE maximum available power value" and update the usage in the text.
Comment Type TR Comment Status X LLDP OOS	Proposed Response Response Status W PROPOSED ACCEPT.
"The 'System setup' field shall contain the device bit-map of the Power Type ext and PD Load defined in Table 79-6f and is reported for the device generating the TLV. The value of the 'System setup' field transmitted by a PSE is undefined."	Cl 79 SC 79.3.2.6f.2 P 95 L 24 # r02-20 Jones, Chad Cisco Systems, Inc. Cisco Systems, Inc. Cisco Systems, Inc.
That last sentence is utter nonsense.	Comment Type E Comment Status D Editoria "Autoclass request" field convention is single quotes.
Strike "The value of the 'System setup' field transmitted by a PSE is undefined."	SuggestedRemedy
Proposed Response Response Status W	change to: 'Autoclass request' field
TFTD How is the PSE supposed to fill out the device bit-map of Power Type ext and PD Load for the itself? (The sentence before says it is for the device generating the TLV.)	Proposed Response Response Status W PROPOSED ACCEPT.

Pa **95** Li **24**

C/ 79 SC 79.3.2.6g Yseboodt, Lennart	P 95 Philips Lighting	L 34	# r02-27	C/ 79 SC 79.3.8.1 Yseboodt, Lennart	P 96 L Philips Lighting	20 # r02-28
Comment Type TR OOS We split the 'Power down SuggestedRemedy Replace text in 79.3.2.66 "The 'Power down' field s allows the PD to request or for a certain period of Add new subclause 79.3 "When the Power type is down. If power is to be n	Comment Status D n' field, but did not update the g as follows: shall contain the bits defined t power delivery to be termina time.	e text. in Table 79-6i. ated, either inde 0x1D to indicat set to 0.	finitely,	Comment Type TR "The measured voltage find current field carries the m carries the measured powe the measured energy cont Referred to field names a	Comment Status D eld carries the measured voltage v easured current value at the PI, th ver value at the PI, and the measu sumption value at the PI, as defin re wrong. , making the table normative.	ne measured power value field ured energy value field carries
When the Power type is When the Power type is Proposed Response PROPOSED ACCEPT. Cl 79 SC 79.3.8 Yseboodt, Lennart	mount of time in seconds the PD, this field shall be set per PSE, this field shall be set to <i>Response Status</i> W <i>P</i> 96 Philips Lighting	L 11	n in Table 79-6i. # <u>r02-144</u>	measurement' field carrie field carries the measured carries the measured ene	ent' field carries the measured volt s the measured current value at th I power value at the PI, and the 'E rgy consumption value at the PI, a Response Status W P98 L Cisco Systems, Inc.	he PI, the 'Power measurement' Energy measurement' field
Comment Type T LATE COMMENT The however, it should be 26 SuggestedRemedy	Comment Status D TLV information string lengt	h for the Measu	LLDP urements TLV is 22,	Comment Type E missing single quote arou SuggestedRemedy change to: 'PSE power pr	Comment Status D nd DLL field: PSE power price inc	<i>Editorial</i>

Pa **98** Li **34**

C/ 126	SC 126.5.1	P108	L15	#	r02-93
Maytum, Mi	chael	RETIRED			
Comment T	vpe G	Comment Status D			Isolation

The document confuses isolation with insulation. Isolation is a function defined by the IEC as "function intended to make dead for reasons of safety all or a discrete section of the electrical installation by separating the electrical installation or section from every source of electric energy" What the cited tests do is verify the insulation, which can be a solid, a liquid or a gas (e.g. air), or any combination, voltage withstand. For impulses the IEC defines "impulse withstand voltage as the highest peak value of impulse voltage of prescribed form and polarity which does not cause breakdown of insulation under specified conditions. Thus the sentance "This electrical isolation shall withstand at least one of the following electrical strength tests:" should be "The electrical isolation insulation shall withstand at least one of the following electrical strength tests:" This sentence also occurs in 145.4.1.

SuggestedRemedy

The electrical isolation insulation shall withstand at least one of the following electrical strength tests:

Proposed Response Response Status W

PROPOSED REJECT.

(1) Since a PI and BASE-T MDI are the same in the vast majority of cases it wouldn't make sense to just change the PI isolation requirements without changing the BASE-T isolation requirements at the same time, in fact not doing this at the same time could result in conflicting requirements.

(2) There is already an Isolation Ad Hoc working on this issue that is chartered to consider the isolation subclauses throughout IEEE 802.3. It is therefore better to let this conclude its work and address this issues holistically, including Clause 145.

(3) Any change to this text needs to ensure that existing implementation remain conformant. (4) This comment is out of scope as it is on unchanged text.

C/ 126 SC 12	26.5.1	P 108	L18	#	r02-94
Maytum, Michael		RETIRED			
Comment Type	GR Comm	ent Status D			Isolation

Comment Type **GR** Comment Status D

TC 109 publishes the horizontal standard IEC 60664 series "Insulation coordination for equipment within low-voltage systems" the preferred impulse is 1.2/50 and as a starting point for testing the peak of the AC voltage, the DC voltage and impulse peak voltage should all be the same. So 1500 V a.c. is 2121 V. close enough to the guoted 2250 V d.c and not too different to the quoted 2400 V impulse peak. In practice the AC and DC voltages are somewhat lower than the impulse peak voltage as longer term effects can come into play. In operation the insulation will be subject to impulses of voltage rather an AC or DC voltages.

SuggestedRemedy

Ensure that the equivalent inpulse peak volrtage for insulation withstand testing is at least equal to the peak of the AC voltage or the DC voltage

Proposed Response Response Status W

PROPOSED REJECT.

(1) Since a PI and BASE-T MDI are the same in the vast majority of cases it wouldn't make sense to just change the PI isolation requirements without changing the BASE-T isolation requirements at the same time, in fact not doing this at the same time could result in conflicting requirements.

(2) There is already an Isolation Ad Hoc working on this issue that is chartered to consider the isolation subclauses throughout IEEE 802.3. It is therefore better to let this conclude its work and address this issues holistically, including Clause 145.

(3) Any change to this text needs to ensure that existing implementation remain conformant. (4) This comment is out of scope as it is on unchanged text.

Pa 108 Li 18

"The shape of the impulses is 1.2/50 micros (1.2 micros virtual front time, 50 micros virtual time or half value), as defined in Annex N of IEC 60950-1:2001." IEC 60950-1 will be killed off by TC 108. It is better to refer the the horizontal standard that defines the 1.2/50 impulse. That standard is IEC 60060-1:2010 High-voltage test techniques - Part 1: General definitions and test requirements from TC 42. SuggestedRemedy Replace " Annex N of IEC 60950-1:2001." with " IEC 60060-1" Proposed Response Response Response Status W PROPOSED REJECT. C/ 145 SC 145.1.4 P113 L3 # r02-13	C/ 126 SC 126.5.1 P 108 L 21 # [r02-96] Maytum, Michael RETIRED RETIRED	C/ 145 SC 145.1 P 109 L 21 Jones, Chad Cisco Systems, Inc.	# r02-12
time or half value), as defined in Annex N of IEC 60950-1:2011. "IEC 60950-1:2010. "IEC 60950-1:2010. High-voltage test techniques - Part 1: General definitions and test requirements from TC 42. SuggestedRemedy Replace "Annex N of IEC 60950-1:2010. High-voltage test techniques - Part 1: General definitions and test requirements from TC 42. SuggestedRemedy Replace "Annex N of IEC 60950-1:2011. "with "IEC 60060-1" "Proposed Response Response Status W PROPOSED REJECT. (1) Since a PI and BASE-T MDI are the same in the vast majority of cases it wouldn't make sense to just colotion requirements without changing the BASE-T isolation requirements without changing the BASE-T isolation requirements without change the PI isolation requirements without change the PI isolation requirements without change the PI isolation requirement tais the same time, in fact not doing this at the same time could result in conflicting requirements." Comment Status D Editorial test requirements. (2) There is already an Isolation Ad Hock working on this issue that is charared to consider the isolation at polymeritement test. Monte Class D or better cabling as specified in ISO/IEC 11801:1995, with the additional requirement that the channel DC loop resistance is 25 [Ohm] or less, is required to support operation as specified in this Clause. (2) Any change the Type E Comment Status D Editorial maginerements." (3) Any change to thit sext heads to ensure that existing implementation remain conformant. Formate Status S W (4) This comment is out of scape as its on unchanged test. Editoria <td< td=""><td>Comment Type G Comment Status D Isolation</td><td>Comment Type E Comment Status D</td><td>Editorial</td></td<>	Comment Type G Comment Status D Isolation	Comment Type E Comment Status D	Editorial
off by TC 108. It is better to refer the the horizontal standard it fail defines the 1.2/50 impulse. That standard is EX 60060-1:2001.* with * IEC 60060.* WPROPOSED ACCEPT. Ci 135 Ch 120 Ch 2001.* with * IEC 60060.* WPROPOSED ACCEPT. Ci 145 SC 145.1 P 113 L3 # r02:13 Ci 145 SC 145.1 P 109 L21 # r02:71 Stover, David Analog Devices Inc. Comment 15 vord 15 cover as it is on unchanged text. Editoria Missing a space between sentences Suggested/Remedy Change: Ci 145 SC 145.2 P 114 L49 # r02:72 Missing a space between sentences Suggested/Remedy Change: Change * Iec sentences Suggested/Remedy Change * Iec sentences		missing space between sentences. "or simply Midspans. The PD is a	an element "
implies. That standard is IEC 60060-1:2010 High-voltage test techniques - Part 1: General definitions and test requirements from TC 42. add the space definitions and test requirements from TC 42. SuggestedRemedy Replace 'Annex Not IEC 60050-1:2001.* with "IEC 60060-1" Proposed Response Response Status W Proposed Response Tests an element." PROPOSED REJECT. (1) Since a PI and BASE-T MDI are the same in the vast majority of cases it wouldn't make sense to just change the PI isolation requirements without changing the BASE-T isolation requirements with a solation Ad Hoc working on this issue that is chartered to consider the isolation subclauses throughout IEEE 802.3. It is therefore better to let this conclude its work and additional Gause IA. Comment Type E Comment Status D Colicores (2) There is a holistically, including Clause IA. Higher Clause D Colicores SuggestedRemedy (3) Any change to this text needs to ensure that existing implementation remain conformant. Proposed Response Clause. SuggestedRemedy (145 SC 145.1 P109 L21 # 102-71 None, Chard Analog Devices Inc. SuggestedRemedy (2) There is a pose as it is on unchanged text. Comment Status D Cole resistance is 25 (DMI) or less is required to support operation as specified in INO/IEC 11801:1995, with the clanuel DC loop resistance is 25 (DMI) or less, is required		SuggestedRemedy	
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Cite Approxe Response Status W PROPOSED REJECT. (1) Since a PI and BASE-T MDI are the same in the vast majority of cases it wouldn't changing the BASE-T isolation requirements without changing the BASE-T isolation requirements. (1) Since a PI and BASE-T MDI are the same inthe could result in conflicting requirements. (1) Since a PI and BASE-T MDI are the same inthe could result in conflicting requirements. (1) Since a PI and BASE-T MDI are the same inthe could result in conflicting requirements. (1) Since a PI and BASE-T MDI are the same inthe could result in conflicting requirements. (1) Since a PI and BASE-T MDI are the same inthe could result in conflicting requirements. (1) Since a PI and BASE-T MDI are the same inthe could result in conflicting requirements. (1) Since a PI and BASE-T MDI are the same inthe could result in conflicting requirements. (1) Since a PI and BASE-T MDI are the same inthe could result in conflicting requirements. (1) Since a PI and BASE-T MDI are the same inthe conflocting the BASE-T isolation are could result in solation Ad Hoc working on this issue that is chartered to consider the isolation subclauses throughout IEEE 802.3. It is therefore better to left this confluctions. (1) Since A PI 13 L3 # (1) Di 2:::::::::::::::::::::::::::::::::::	SuggestedRemedy	Proposed Response Response Status W	
PROPOSED REJECT. (1) Since a PI and BASE-T MDI are the same in the vast majority of cases it wouldn't make sense to just change the PI isolation requirements without changing the BASE-T isolation requirements. (1) Since a PI and BASE-T MDI are the same time could result in conflicting requirements. (1) Since a PI and BASE-T MDI are the same time could result in conflicting requirements. (1) Since a PI and BASE-T MDI are the same time could result in conflicting requirements. (1) Since a PI and BASE-T MDI are the same time could result in conflicting requirements. (1) Since a PI and BASE-T MDI are the same time could result in conflicting requirements. (1) Since a PI and BASE-T MDI are the same time could result in conflicting requirements. (1) Since a PI and BASE-T MDI are the same time could result in conflicting requirements. (1) Since a PI and BASE-T MDI are the same time could result in conflicting requirements. (1) Since a PI and BASE-T MDI are the same time could result in conflicting requirements. (1) Since a PI and BASE-T MDI are the same time could result in conflicting requirements. (1) Since a PI and BASE-T MDI are the same time could result in conflicting requirements. (1) Since a PI and BASE-T MDI are the same time could result in conflicting requirement the the channel DC loop resistance is 25 [Ohm] or less is required to support operation as specified in ISO/IEC 11801:1995, with the additional requirement that the channel DC loop resistance is 25 [Ohm] or less, is required to support operation as specified in this Clause. 2/ 145 SC 145.1 P109 L21 # [02-71] 1/ Since and a support operation as specified in tSO/IEC 11801:1995. (1) Since	Replace " Annex N of IEC 60950-1:2001." with " IEC 60060-1"	PROPOSED ACCEPT.	
PROPOSED REJECT. Jones, Chad Cisco Systems, Inc. (1) Since a PI and BASE-T MDI are the same in the vast majority of cases it wouldn't make sense to just change the PI isolation requirements with as ame time, in fact not doing this at the same time could result in conflicting requirements. (2) There is already an Isolation Ad Hoc working on this issue that is chartered to consider the isolation subjective time source and address this issues holistically, including Clause 145. (2) There is already an Isolation Ad Hoc working on this issue that is chartered to consider the isolation subjective time that the channel DC loop resistance is 25 [Ohm] or less is required to support operation as specified in this Clause. Comment Type E Comment Type (10) PT (10) P	Proposed Response Response Status W	C/ 145 SC 145.1.4 P113 L3	# r02-13
Series to just change the PI isolation requirements without changing the BASE-T isolation requirements at the same time, in fact not doing this at the same time could result in conflicting requirements at the same time, in fact not doing this at the same time could result in conflicting requirements without changing the BASE-T isolation requirement has at the same time, in fact not doing this at the same time could result in conflicting requirements without changing the BASE-T isolation requirement that the channel DC loop resistance is 25 [Ohm] or less is required to support operation as specified in ISO/IEC 11801:1995, with the additional requirement that the channel DC loop resistance is 25 [Ohm] or less, is required to support operation as specified in this Clause. 27 145 SC 145.1 P109 L21 # [02-71] 26 the source s	PROPOSED REJECT.		.02 .0
sense to just change the PI isolation requirements without changing the BASE-T isolation requirements at the same time, in fact not doing this at the same time could result in conflicting requirements. (2) There is already an Isolation Ad Hoc working on this issue that is chartered to consider the isolation subclauses throughout IEEE 802.3. It is therefore better to let this conclude its work and address this issues holisically, including Clause 145. (3) Any change to this text needs to ensure that existing implementation remain conformant. (4) This comment is out of scope as it is on unchanged text. (4) This comment is out of scope as it is on unchanged text. (5) Any change to this text needs to ensure that existing implementation remain conformation to support operation as specified in ISO/IEC 11801:1995, with the additional requirement that the channel DC loop resistance is 25 [Ohm] or less, is required to support operation as specified in this Clause. (7) This comment Type E Comment Status D Editorial Missing a space between sentences toggestedRemedy Change: "or simply Midspans. The PD is an element" To: "or simply Midsp	(1) Since a PI and BASE-T MDI are the same in the vast majority of cases it wouldn't make	-	Editorial
work and address this issues holistically, including Clause 145. (3) Any change to this text needs to ensure that existing implementation remain conformant. (4) This comment is out of scope as it is on unchanged text. P109 L 21 # [02-71] tover, David Analog Devices Inc. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. OBE by 12 Sci 145.1 P109 L 21 # [02-71] Change: "or simply Midspans. The PD is an element" Editorial Comment Type E Comment" Comment Status D Editorial OBE by 12 OBE by 12 Change in this clause W PROPOSED ACCEPT. Comment PSE." To "Endpoint PSE." To "Midspan PSE." To	requirements at the same time, in fact not doing this at the same time could result in conflicting requirements. (2) There is already an Isolation Ad Hoc working on this issue that is chartered to consider	Current text: Class D, or better, cabling as specified in ISO/IEC 1180 additional requirement that the channel DC loop resistance is 25 [Of	01:1995 with the
(3) Any change to this text needs to ensure that existing implementation remain conformant. (4) This comment is out of scope as it is on unchanged text. (3) Any change to this text needs to ensure that existing implementation remain conformant. (4) This comment is out of scope as it is on unchanged text. (7) 145 SC 145.1 P 109 L 21 # r02-71 (a) Analog Devices Inc. Editorial Comment Type E Comment Status D Editorial Missing a space between sentences Editorial Froposed Response Response Status W "or simply Midspans. The PD is an element" "or simply Midspans. The PD is an element" Editorial Comment Type E Comment Status D Editorial OBE by 12 OBE by 12 W Froposed Response Response Status W Change "Endpoint PSE." To "Endpoint PSE." To "Endpoint PSE." To "Endpoint PSE." To "Endpoint PSE." OBE by 12 OBE by 12 Change "Midspan PSE."	0	SuggestedRemedy	
C/ 145 SC 145.1 P109 L21 # [02-71] Stover, David Analog Devices Inc. Comment Type E Comment Status D Editorial Missing a space between sentences Score factorial FROPOSED ACCEPT. P114 L49 # [02-72] Stover, David Analog Devices Inc. Cl 145 SC 145.2.2 P114 L49 # [02-72] Stover, Change: "or simply Midspans.The PD is an element" Comment Type E Comment Type E Comment Status D Editorial Proposed Response Response Status W Period placed inside quotation marks (2 locations) Editorial Proposed Response Response Status W Line 49 Change "Endpoint PSE." To "Midspan PSE." To "Midspan PSE." To "Midspan PSE." To "Midspan PSE." Proposed Response Response Status W	(3) Any change to this text needs to ensure that existing implementation remain conformant.(4) This comment is out of scope as it is on unchanged text.	additional requirement that the channel DC loop resistance is 25 [Of	
Stover, David Analog Devices Inc. Comment Type E Comment Status D Missing a space between sentences Editorial SuggestedRemedy Change: PROPOSED ACCEPT. Change: Change Change Comment Type E Comment Status D Editorial Change: Comment Type E Comment Type E Comment Status D Editorial "or simply Midspans. The PD is an element" W Period placed inside quotation marks (2 locations) Editorial Proposed Response Response Status W Line 49 Editorial OBE by 12 Line 51 Change "Midspan PSE". Line 51 Change "Midspan PSE". Proposed Response Response Status W			
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UggestedRemedy Conset: Comment Type E Comment Status D Editorial "or simply Midspans. The PD is an element" Period placed inside quotation marks (2 locations) E E Comment Type E Comment Status D E E E E			# 102-72
 "or simply Midspans. The PD is an element" <i>Period</i> placed inside quotation marks (2 locations) <i>SuggestedRemedy</i> Line 49 Change "Endpoint PSE." To "Endpoint PSE". OBE by 12 <i>Line 51</i> <i>Change "Midspan PSE".</i> <i>Proposed Response</i> <i>Response Status</i> <i>Proposed Response</i> <i>Response Status</i> <i>Proposed Response</i> <i>Response Status</i> <i>Response Status</i> <i>Proposed Response</i> <i>Response Status</i> <i>N</i> 			Editorial
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roposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Line 49 OBE by 12 Line 51 Change "Midspan PSE." To "Midspan PSE". Proposed Response Response Status W Response Status W Response Status W Note that the status of t		SuggestedRemedy	
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Change "Midspan PSE." To "Midspan PSE". Proposed Response Status W	PROPOSED ACCEPT IN PRINCIPLE.		
	OBE by 12	Change "Midspan PSE."	
PROPOSED ACCEPT.		Proposed Response Response Status W	

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn Li 49 SORT ORDER: Page, Line

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2.5GBASE-T, detection voltage 5GBASE-T, 10GBASE-T." 1000BASE-T is missing a hyphen SuggestedRemedy Change "1000BASET" To "1000BASET" To Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT. detection voltage Enable backoff. P BACKOFF state, PSE will have to of pair Midspan." b) make changes BACKOFF from: to: midspan*(pse SuggestedRemedy 1. Add the followin 4-pair Midspan exi = invalid) To: (midspan=1) 3. Add the followin midspan A constant indica Values:	is required to block DC path. So, if it switches to 2-pairs, it still can't get from a switch since the DC path is blocked. As a result, no need to per the state machine in page 143 in the exit from the DETECT_EVAL to if a 4-pair midspan is set to pse_alternative = b and sig_pri = invalid, th do backoff which in this case is not required and incorrect.						
"PSEs on be compatible with any of the following: 10BASE-T, 100BASE-TX, 1000BASET, 2.5GBASE-T, 10GBASE-T." A 4-pair Midspan detection voltage 5GBASE-T, 10GBASE-T." A 4-pair Midspan 1000BASE-T is missing a hyphen SuggestedRemedy Change "1000BASET" To "1000BASE-T" Proposed Response Response Status PROPOSED ACCEPT. W SuggestedRemedy 1. Add the following: 10BASE-T." Divide the following: 10BASE-T." 1000BASE-T." To "1000BASE-T." Proposed Response Response Status W SuggestedRemedy 0. c. (midspan, 1) 1. Add the following: 10BASE-T." Divide the following: 100BASE-T." 1. Add the following: 10BASE-T." Divide the following: 100BASE-T." 1. Add the following: 10BASE-T." Divide the following: 10BASE-T." 1. Add the following: 10BASE-T." Divide the following: 10BASE-T." 1. Add the following: 10BASE-T." Divide the following: 10BASE-T." 1. Add the following: 10BASE-T." Divide the following: 10BASE-T." 1. Add the following: 10BASE-T." Divide the following: 10BASE-T." 1. Add the following: 10BASE-T." Divide the following: 10BASE-T." <td>is required to block DC path. So, if it switches to 2-pairs, it still can't get from a switch since the DC path is blocked. As a result, no need to er the state machine in page 143 in the exit from the DETECT_EVAL to if a 4-pair midspan is set to pse_alternative = b and sig_pri = invalid, th do backoff which in this case is not required and incorrect.</td>	is required to block DC path. So, if it switches to 2-pairs, it still can't get from a switch since the DC path is blocked. As a result, no need to er the state machine in page 143 in the exit from the DETECT_EVAL to if a 4-pair midspan is set to pse_alternative = b and sig_pri = invalid, th do backoff which in this case is not required and incorrect.						
PROPOSED ACCEPT. 1. Add the followi 4-pair Midspan op 2. change the exit = invalid) To: (midspan=1)' 3. Add the followi midspan A constant indica Values: 0: The PSE is a 4	bage 123 after line 24 that says "supporting backoff is not required for a 4 in the state machine by changing the exit from DETECT_EVAL to (pse_alternative = b) * (sig_pri = invalid) e_alternative = b) * (sig_pri = invalid) and to add a constant "midspan".						
4-pair Midspan op 2. change the exi = invalid) To: (midspan=1) 3. Add the followi midspan A constant indica Values: 0: The PSE is a 4							
	To: (midspan=1)*(pse_alternative = b) * (sig_pri = invalid) 3. Add the following constant to 145.2.5.3 midspan A constant indicating the if PSE is a 4-pair Midspan. Values: 0: The PSE is a 4-pair Midspan.						
Proposed Response	Response Status W						
PROPOSED REJ	IECT.						
"A PSE performin detection signatu	ning of the paragraph you commented on: ng detection using only Alternative B may fail to detect a valid PD re. When this occurs, the PSE shall back off for at least Tdbo as defined before attempting another detection, except in the case of an open circuit .2.6.6."						
Clearly this requir	ement only applies to 2-pair operation on Alternative B.						
	u point out from DETECT_EVAL to BACKOFF: (pse_alternative = b) * already makes it clear that this is 2-pair operation on alternative b (4-pai						

Pa **123** Li **25**

C/ 145 SC 145.2.5.4	P127	L 20	# r02-108	C/ 145	SC 145.2.5.4	P128	L 36	# r02-103
Darshan, Yair	, 121	- 20	102-100	Johnson, F		/ 120	2.50	102-103
Comment Type T	Comment Status D		PSE SD	Comment	Type T Com	ment Status D		PSE SD
The text "This variable is s that it doesn't add any valu See http://www.ieee802.org SuggestedRemedy Delete the text in this varia Proposed Response	e. g/3/bt/public/nov17/ysebc	odt_06_1117_t	iinal.pdf	descri Trest, diagra greate SEC).	ate variable descriptions be a process whereby the and then by a "normal cli- ms on pages 149 and 15 r or equal to Class 4, the So whatever is intender is abiguous and in confli	e 3-event class probe assification procedur 3 show a second op CLASS_PROBE_PI d with this second br	e is always follov e" (i.e. Class Ev tion whereby, if RI (and SEC) re anch out of CLA	ved by a Vreset for ent 1, LCE). The state PSE power available is turn to IDLE_PRI (and
PROPOSED REJECT.				Suggested	lRemedy			
This text was added to mal any time and which variabl			to be set by the PSE at		the state diagram needs ation is required in the va m.			
For example the variable y	ou pointed out:			Proposed PROP	Response Resp OSED ACCEPT IN PRIN	onse Status W NCIPLE.		
iclass_lim_det A variable indicating if any or equal to or greater than IClass L		0 -	-		", followed by a normal c _class_probe_pri and op			cription of
description. Values: FALSE: Measured IClass is do_classification or this function is not active TRUE: Measured IClass is classification. Must be set by the definitio	s not invalid or is less tha e. invalid or equal to or grea	n IClass_LIM n ater than IClass	nin during s_LIM min during do	Suggested If the v well as	Type T Com ariable option_vport_lim is IRemedy variable option_vport_lim s its reference in function	isn't used delete its do_initialize in subcl	seem to be use	
C/ 145 SC 145.2.5.4 Darshan, Yair	P 127	L 5 1	# r02-107	Proposed PROP	Response Resp OSED ACCEPT IN PRIN	onse Status W NCIPLE.		
Comment Type E (The link to MirroredPDAuto	Comment Status X	15-39 and not T	PSE SD able 145-38.	OBE b	by 100			
SuggestedRemedy Change from Table 145-38	3 to Table 145-39							
Proposed Response R TFTD	esponse Status W							
Table 145-38 is for PSEs (This variable is output by th to move it?								
TYPE: TR/technical required E COMMENT STATUS: D/dispat SORT ORDER: Page, Line				0	d U/unsatisfied Z/withdra	Pa 12 awn Li 26		Page 10 of 37 12/19/2017 4:55

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C/ 145 SC 14	45.2.5.4	P130	L 34	# r02-124	C/ 145	SC	145.2.5.4	P131	L 6	# r02-97
Darshan, Yair			-••		Johnson, P				-•	102 01
Comment Type	т	Comment Status D		PSE SD	Comment	Туре	Е	Comment Status D		PSE SI
addition, it does	sn't add an	r, the text "If pse_avail_pw y additional value	r is less than 4"	is no longer correct. In	Variabl specifie		itions for p	ower_available_pri and pow	er_available_s	ec should be pairset
		/ the state machine.			Suggested	Remea	ly			
higher Class tha Class 6, whiche option_class_pr not contain the To: "The variabl than a PSE can	The variabl an a PSE ever is the robe is FA PD reques le indicate n support, f	e indicates the PD requesto can support, the PSE assig highest Class it can suppor LSE, this variable may sted Class; do_class_probe s the PD requested Class. he PSE assigns the PD to Class it can support. do_cla	ns the PD to Cl t. If pse_avail_ e also returns th When a PD rec Class 3, Class	lass 3, Class 4, or pwr is less than 4 and is variable." juests a higher Class 4, or Class 6,	FALSĔ TRUE: (replica <i>Proposed F</i>	E: PSE PSE is ate for p Respon	s capable to power_ava	s follows: er capable of sourcing powe o continue to source power lable_sec) <i>Response Status</i> W		
Proposed Response		Response Status W			C/ 145	SC	145.2.5.4	P133	L 14	# r02-102
PROPOSED RE	EJECT.				Johnson, P	Peter				
TFTD					Comment	Туре	т	Comment Status D		PSE SI
readers underst	tand that t	s is no longer correct and c nis variable might not conta			"This v	rariable	is set per	_reset', 'pse_reset_pri', and this description". However, any time the by the PSE.		
certain conditior	ns.				Suggested	Remea	ly			
C/ 145 SC 14	45.2.5.4	P130	L 49	# r02-101	Chang	e desci	ription to "T	his variable may be set by t	he PSE at any	time."
Johnson, Peter					Proposed I	Respon	ise	Response Status W		
Comment Type	т	Comment Status X		PSE SD	PROP	OSED	REJECT.			
described as "T true in the state pre-condition of	This variab e machine f powering	r_available', 'power_availab e may be set by the PSE a as this variable only appear a PD.	t any time." Th	is does not seem to be				s set according to the descr nentation-specific reasons re		
SuggestedRemedy										
	Perhaps ex	ch of these three variables pand the variable description t effect.								

Proposed Response Response Status W

TFTD

I think the answer is that the PSE can set this variable at any time, but it is only checked in the PowerON states.

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

Pa **133** Li **14** Page 11 of 37 12/19/2017 4:55:37 PM

C/ 145 SC 145.2.5.4 P 133 L 39 # r02-109 Darshan, Yair	C/ 145 SC 145.2.5.4 P134 L 20 # r02-99 Johnson, Peter
Comment Type T Comment Status D PSE SD	Comment Type E Comment Status D PSE SD
In the following text Class 0 should be adressed as well: "pse_ss_mode A variable that controls whether the PSE provides power over 2 pair or 4 pair to a single- signature PD assigned to Class 1 through Class 4. This variable may be set by the PSE at any time. 0: Single-signature PD is powered over 2 pair. 1: Single-signature PD is powered over 4 pair." Type 3 or 4 PSEs that detects PD with class 0 which they have to support over 2-pairs and allowed to support it over 4-pairs as well are not covered by the above variable description.	The state variables short_det_pri and short_det_sec should make reference to the applicable short circuit clause much like the state variables ovld_det_pri and ovld_det_sec. This better assures that the state machine behavior of these error conditions (bundled into error_pri and error_sec) are subject to the approprite rules such as Tlim. SuggestedRemedy Add "See 145.2.8.8" into each of the variable descriptions. Proposed Response Response Status W PROPOSED ACCEPT.
	C/ 145 SC 145.2.5.4 P134 L 31 # [r02-88
In adition, it is not sufficient that in Table 145-11 class 0 is adressed i.e. the rest of the spec in the PSE section need to be sync to it by simply change all ocurences of "class 3 =	Law, David Hewlett Packard Enter
Class 3" to "Class 0, Class 3" and from "Class 1 to Class X" to "Class 0 to Class X". These are covered by seperate comments.	Comment Type E Comment Status D PSE SD
SuggestedRemedy	Suggest that ' state diagram to kick off the' should be changed to read ' state diagram to initiate the'.
Change the text to: "pse ss mode	SuggestedRemedy
A variable that controls whether the PSE provides power over 2 pair or 4 pair to a single-	See comment.
signature PD assigned to Class 1 through Class 4. Class 0 PD is treated as Class 3 PD.This variable may be set by the PSE at any time. 0: Single-signature PD is powered over 2 pair.	Proposed Response Response Status W PROPOSED ACCEPT.
1: Single-signature PD is powered over 4 pair."	OOS
Proposed Response Response Status W	C/ 145 SC 145.2.5.4 P134 L 44 # r02-74
PROPOSED REJECT.	Stover, David Analog Devices Inc.
The description clearly says "asigned to Class 1 through Class 4". PDs that request Class 0 get assigned to Class 3, thus the current description is correct and does not need to be	Comment Type G Comment Status D Editorial "temp_var_sec" refers to "pd_class_sig_pri", should refer to "pd_class_sig_sec".
changed.	SuggestedRemedy
	Change: A variable used to store the previous value of the variable pd_class_sig_pri for the Secondary Alternative. To: A variable used to store the previous value of the variable pd_class_sig_sec for the Secondary Alternative.
	Proposed Response Response Status W

ment Type T Comment Status D Editorial ne function do_autoclassification returns only one variable and not variables. EstedRemedy estedRemedy mange the text 'This function returns the following variables:" EstedRemedy b:: "This function returns the following variable:" SetedResponse Response Status W ROPOSED ACCEPT IN PRINCIPLE. SO ake same change on line 35 for do_class_probe Image: the text Type T Comment Status X PSE SD on, Peter T Comment Status X PSE SD PSE SD ne Functions 'do_classification_pri' and 'do_classification_sec' seem highly neconventional as they seem to operate at two levels of the Primary and Secondary PSE ate machines. On a per class event level, they (presumably) produce class signatures. ut additionally, they return the variables pd_reg_pwr_pri (sec) and pd_allocated_pwr_pri	Variables option_class_probe_pri and option_class_probe_sec are missing from returned variable in the do_initialize function. SuggestedRemedy Add both variables. Proposed Response Response Status W PROPOSED ACCEPT. C/ 145 SC 145.2.5.6 P140 L 26 # r02-100 Johnson, Peter Comment Type T Comment Status D PSE The state variable 'option_vport_lim' (andpri ,sec) are shown as being returned by the Function 'do_initialize'. This does not seem to be consistent with the purpose of these variables that are defined to report an operating condition during the POWER_ON state, albeit the purpose of 'do_initialize' is not clear in the PSE state machine. First problem is that the variable 'option_vport_lim' is not used anywhere in state processing. Further, the 'pri' and 'sec' versions of these variables are processed identically to 'short_det_pri',
AssedRemedy Anange the text 'This function returns the following variables:" b: "This function returns the following variable:" b: "Boom returns the following variable:" b: "So ake same change on line 35 for do_class_probe b: "So ake same change on line 35 for do_class_probe b: "So ake same change on line 35 for do_class_probe b: "So ake same change on line 35 for do_class_probe b: "So ake same change on line 35 for do_class_probe b: "So ake same change on line 35 for do_class_probe b: "So ake same change on line 35 for do_class_probe b: "So ake same change on line 35 for do_class_probe b: "So ake same change on line 35 for do_class_probe b: "So ake same change on line 35 for do_class_probe b: "So ake same change on line 35 for do_class_probe b: "So ake same change on line 35 for do_class_probe b: "So ake same change on line 35 for do_class to ake same change on line 35 for do_classification_sec' seem highly hoconventional as they seem to operate at two levels of the Primary and Secondary PSE ate machines. On a per class event level, they (presumably) produce class signatures.	variable in the do_initialize function. SuggestedRemedy Add both variables. Proposed Response Response Status W PROPOSED ACCEPT. Cl 145 SC 145.2.5.6 P140 L26 # r02-100 Johnson, Peter Comment Type T Comment Status D PSE The state variable 'option_vport_lim' (andpri,sec) are shown as being returned by the Function 'do_initialize'. This does not seem to be consistent with the purpose of these variables that are defined to report an operating condition during the POWER_ON state, albeit the purpose of 'do_initialize' is not clear in the PSE state machine. First problem is that the variable 'option_vport_lim' is not used anywhere in state processing. Further, the 'pri' and 'sec' versions of these variables are processed identically to 'short_det_pri',
hange the tx' 'This function returns the following variables:" b: "This function returns the following variable:" sed Response Response Status W ROPOSED ACCEPT IN PRINCIPLE. SO ake same change on line 35 for do_class_probe 5 SC 145.2.5.6 P138 L20 # r02-98 on, Peter thent Type T Comment Status X PSE SD the Functions 'do_classification_pri' and 'do_classification_sec' seem highly inconventional as they seem to operate at two levels of the Primary and Secondary PSE ate machines. On a per class event level, they (presumably) produce class signatures.	SuggestedRemedy Add both variables. Proposed Response Response Status W PROPOSED ACCEPT. Cl 145 SC 145.2.5.6 P140 L 26 # r02-100 Johnson, Peter Comment Type T Comment Status D PSE The state variable 'option_vport_lim' (andpri ,sec) are shown as being returned by the Function 'do_initialize'. This does not seem to be consistent with the purpose of these variables that are defined to report an operating condition during the POWER_ON state, albeit the purpose of 'do_initialize' is not clear in the PSE state machine. First problem is that the variable 'option_vport_lim' is not used anywhere in state processing. Further, the 'pri' and 'sec' versions of these variables are processed identically to 'short_det_pri',
 "This function returns the following variable:" sed Response Response Status W ROPOSED ACCEPT IN PRINCIPLE. SO ake same change on line 35 for do_class_probe 5 SC 145.2.5.6 P 138 L 20 # r02-98 on, Peter Pathon Primary and Secondary PSE SD and the Secondary PSE ate machines. On a per class event level, they (presumably) produce class signatures. 	Add both variables. Proposed Response Response Status W PROPOSED ACCEPT. Cl 145 SC 145.2.5.6 P140 L 26 # r02-100 Johnson, Peter Comment Type T Comment Status D PSE The state variable 'option_vport_lim' (andpri ,sec) are shown as being returned by the Function 'do_initialize'. This does not seem to be consistent with the purpose of these variables that are defined to report an operating condition during the POWER_ON state, albeit the purpose of 'do_initialize' is not clear in the PSE state machine. First problem is that the variable 'option_vport_lim' is not used anywhere in state processing. Further, the 'pri' and 'sec' versions of these variables are processed identically to 'short_det_pri',
ROPOSED ACCEPT IN PRINCIPLE. _SO ake same change on line 35 for do_class_probe 5 SC 145.2.5.6 P 138 L 20 # r02-98 on, Peter ment Type T Comment Status X PSE SD ne Functions 'do_classification_pri' and 'do_classification_sec' seem highly PSE SD ne Functional as they seem to operate at two levels of the Primary and Secondary PSE ate machines. On a per class event level, they (presumably) produce class signatures.	PROPOSED ACCEPT. Cl 145 SC 145.2.5.6 P 140 L 26 # r02-100 Johnson, Peter Johnson, Peter Comment Type T Comment Status D PSE The state variable 'option_vport_lim' (andpri ,sec) are shown as being returned by the Function 'do_initialize'. This does not seem to be consistent with the purpose of these variables that are defined to report an operating condition during the POWER_ON state, albeit the purpose of 'do_initialize' is not clear in the PSE state machine. First problem is that the variable 'option_vport_lim' is not used anywhere in state processing. Further, the 'pri' and 'sec' versions of these variables are processed identically to 'short_det_pri',
LSO ake same change on line 35 for do_class_probe 5 SC 145.2.5.6 P138 L 20 # r02-98 on, Peter ment Type T Comment Status X PSE SD the Functions 'do_classification_pri' and 'do_classification_sec' seem highly the conventional as they seem to operate at two levels of the Primary and Secondary PSE ate machines. On a per class event level, they (presumably) produce class signatures.	C/ 145 SC 145.2.5.6 P140 L 26 # r02-100 Johnson, Peter Image: Comment Type T Comment Status D PSE The state variable 'option_vport_lim' (andpri ,sec) are shown as being returned by the Function 'do_initialize'. This does not seem to be consistent with the purpose of these variables that are defined to report an operating condition during the POWER_ON state, albeit the purpose of 'do_initialize' is not clear in the PSE state machine. First problem is that the variable 'option_vport_lim' is not used anywhere in state processing. Further, the 'pri' and 'sec' versions of these variables are processed identically to 'short_det_pri',
ake same change on line 35 for do_class_probe 5 SC 145.2.5.6 P138 L 20 # r02-98 on, Peter PSE SD nent Type T Comment Status X PSE SD ne Functions 'do_classification_pri' and 'do_classification_sec' seem highly PSE SD ne Functional as they seem to operate at two levels of the Primary and Secondary PSE ate machines. On a per class event level, they (presumably) produce class signatures.	Johnson, Peter Comment Type T Comment Status D PSE The state variable 'option_vport_lim' (andpri ,sec) are shown as being returned by the Function 'do_initialize'. This does not seem to be consistent with the purpose of these variables that are defined to report an operating condition during the POWER_ON state, albeit the purpose of 'do_initialize' is not clear in the PSE state machine. First problem is that the variable 'option_vport_lim' is not used anywhere in state processing. Further, the 'pri' and 'sec' versions of these variables are processed identically to 'short_det_pri',
5 SC 145.2.5.6 P138 L 20 # r02-98 on, Peter nent Type T Comment Status X PSE SD ne Functions 'do_classification_pri' and 'do_classification_sec' seem highly inconventional as they seem to operate at two levels of the Primary and Secondary PSE ate machines. On a per class event level, they (presumably) produce class signatures.	Comment Type T Comment Status D PSE The state variable 'option_vport_lim' (andpri ,sec) are shown as being returned by the Function 'do_initialize'. This does not seem to be consistent with the purpose of these variables that are defined to report an operating condition during the POWER_ON state, albeit the purpose of 'do_initialize' is not clear in the PSE state machine. First problem is that the variable 'option_vport_lim' is not used anywhere in state processing. Further, the 'pri' and 'sec' versions of these variables are processed identically to 'short_det_pri',
on, Peter <i>ment Type</i> T <i>Comment Status</i> X <i>PSE SD</i> the Functions 'do_classification_pri' and 'do_classification_sec' seem highly inconventional as they seem to operate at two levels of the Primary and Secondary PSE ate machines. On a per class event level, they (presumably) produce class signatures.	The state variable 'option_vport_lim' (andpri,sec) are shown as being returned by the Function 'do_initialize'. This does not seem to be consistent with the purpose of these variables that are defined to report an operating condition during the POWER_ON state, albeit the purpose of 'do_initialize' is not clear in the PSE state machine. First problem is that the variable 'option_vport_lim' is not used anywhere in state processing. Further, the 'pri' and 'sec' versions of these variables are processed identically to 'short_det_pri',
nent Type T Comment Status X PSE SD ne Functions 'do_classification_pri' and 'do_classification_sec' seem highly neconventional as they seem to operate at two levels of the Primary and Secondary PSE ate machines. On a per class event level, they (presumably) produce class signatures.	the Function 'do_initialize'. This does not seem to be consistent with the purpose of these variables that are defined to report an operating condition during the POWER_ON state, albeit the purpose of 'do_initialize' is not clear in the PSE state machine. First problem is that the variable 'option_vport_lim' is not used anywhere in state processing. Further, the 'pri' and 'sec' versions of these variables are processed identically to 'short_det_pri',
he Functions 'do_classification_pri' and 'do_classification_sec' seem highly aconventional as they seem to operate at two levels of the Primary and Secondary PSE ate machines. On a per class event level, they (presumably) produce class signatures.	variables that are defined to report an operating condition during the POWER_ON state, albeit the purpose of 'do_initialize' is not clear in the PSE state machine. First problem is that the variable 'option_vport_lim' is not used anywhere in state processing. Further, the 'pri' and 'sec' versions of these variables are processed identically to 'short_det_pri',
aconventional as they seem to operate at two levels of the Primary and Secondary PSE ate machines. On a per class event level, they (presumably) produce class signatures.	albeit the purpose of 'do_initialize' is not clear in the PSE state machine. First problem is that the variable 'option_vport_lim' is not used anywhere in state processing. Further, the 'pri' and 'sec' versions of these variables are processed identically to 'short_det_pri',
ec) that really should come from CLASS_EVAL_PRI and CLASS_EVAL_SEC, as seems	'short_det_sec', 'overld_det_pri' and 'overld_det_sec'. They all have meaning only during the POWER_ON state.
be the case in the top level (single signature) state machine where the Function o_classification' simply returns the class signature from a single event as shown in the	SuggestedRemedy
ate diagrams.	Remedies: 1) Remove from 'do_initialization' 2) Remove 'option_vport_lim' altogether 3
estedRemedy	Specify in the definitions of 'option_vport_lim_pri' and 'option_vport_lim_sec' that "This variable is set per this description" much like the write-ups for 'overld_det_pri' and
this is truly seen to be an issue, then 'do_classification_pri' (and sec) should just return	'short_det_pri'.
ass signatures per class event and the variables pd_req_pwr_pri (sec) and d_allocated_pwr_pri (sec) should be defined along with pd_req_pwr in 145.2.5.4.	Proposed Response Response Status W
sed Response Response Status W	PROPOSED ACCEPT.
-TD	C/ 145 SC 145.2.5.6 P140 L 49 # r02-9
don't believe this is seen to be an issue.	Anslow, Peter Ciena Corporation
	Comment Type E Comment Status D Edito
	Three instances of references to 145.2.5.4 that are text rather than cross-references.
	SuggestedRemedy
	On page 140, lines 49 and 54, and page 141, line 5 make "145.2.5.4" a cross-reference.
	Check and fix other instances of missing cross-references by searching for "145." in FrameMaker (cross-references will not match).
	Proposed Response Response Status W
	PROPOSED ACCEPT.
TR/technical required ER/editorial required GR/general required T/technical E/editorial	G/general Pa 140 Page 13 of 37

SORT ORDER: Page, Line

C/ 145 SC 145.2.5.7 Darshan, Yair	P142	L	# r02-140	C/ 145 SC 14 Law, David	45.2.5.7	P142 Hewlett Packard I	L6 Enter	# r02-86
There is a problem that tcc2 after SISM_START in CC_D can cause detection on prim In fact, we need to ensure th conditioned by tcc2det_ time SuggestedRemedy	DET_SEQ=0 or 3 as requin nary to start after tcc2tdet hat all the inputs coming to er not done.	red by the definit timer has exprie	tion of this timer. This d.	Comment Type Suggest that 'd SuggestedRemedy See comment. Proposed Respons PROPOSED A	do_initialialia / se	Comment Status D ze' should read 'do_initialize' in Response Status W	n the IDLE s	<i>Editorial</i> state in Figure 145-13.
Make the following changes: 1. From INIT_PRI to START "(CC_DET_SEQ=0)+(CC_D 2. Add exit from INIT_PRI to "(CC_DET_SEQ=0)+(CC_D	<pre>F_DET_PRI: change from DET_SEQ=3)*!tcc2det_tim to IDLE_:</pre>	er_done+ (CC_[Yseboodt, Lennart		P142 Philips Lighting Comment Status D	L 7	# <u>r02-30</u> Editorial
Proposed Response Re	esponse Status W			do_initialialize i	in IDLE is r	nisspelled.		
PROPOSED REJECT.				SuggestedRemedy	/			
	he transtion from CXN_CF for the failing case). Once and the transition (into and bens causing the total time	the transition to d) from IDLE_PF	SISM_START is	SuggestedRemedy Change to do_ Proposed Respons PROPOSED A OBES by 86	_initialize se	Response Status W PRINCIPLE.		
PROPOSED REJECT. Tcc2det is checked during th CXN_CHK_EVAL to IDLE (f made, sism is set to TRUE a START_DETECT_PRI happ other transitions happen inst C/ 145 SC 145.2.7	he transtion from CXN_CF for the failing case). Once and the transition (into and bens causing the total time	the transition to d) from IDLE_PF	SISM_START is	Change to do_ Proposed Respons PROPOSED A OBES by 86	_initialize se	,	L7	# <u>r02-135</u>
PROPOSED REJECT. Tcc2det is checked during th CXN_CHK_EVAL to IDLE (fr made, sism is set to TRUE a START_DETECT_PRI happ other transitions happen inst C/ 145 SC 145.2.7 Darshan, Yair	he transtion from CXN_CH for the failing case). Once and the transition (into and bens causing the total time tantaneously). P142 Comment Status X	e the transition to d) from IDLE_PF e to still be gated <i>L</i> 1	o SISM_START is RI to d by Tcc2det (as the # <u>r02-141</u> <i>Pres: Darshan3</i>	Change to do Proposed Respons PROPOSED A OBES by 86 Cl 145 SC 1 Darshan, Yair Comment Type	initialize se ACCEPT IN 45.2.7 T	PRINCIPLE.		# <u>r02-135</u> Editorial
PROPOSED REJECT. Tcc2det is checked during th CXN_CHK_EVAL to IDLE (f made, sism is set to TRUE a START_DETECT_PRI happ other transitions happen inst C/ 145 SC 145.2.7 Darshan, Yair Comment Type T Ca PSE state machine need to	he transtion from CXN_CH for the failing case). Once and the transition (into and bens causing the total time tantaneously). P142 Comment Status X be updated per the update	e the transition to d) from IDLE_PF e to still be gated <i>L</i> 1	o SISM_START is RI to d by Tcc2det (as the # <u>r02-141</u> <i>Pres: Darshan3</i>	Change to do_ Proposed Respons PROPOSED A OBES by 86 Cl 145 SC 1 Darshan, Yair Comment Type Typo in "do_in SuggestedRemedy	initialize se // ACCEPT IN 45.2.7 T nitialialize" in /	PRINCIPLE. P142 Comment Status D		
PROPOSED REJECT. Tcc2det is checked during th CXN_CHK_EVAL to IDLE (f made, sism is set to TRUE a START_DETECT_PRI happ other transitions happen inst Cl 145 SC 145.2.7 Darshan, Yair Comment Type T Ca PSE state machine need to SuggestedRemedy Adopt darshan_03_0118.pdf	he transtion from CXN_CH for the failing case). Once and the transition (into and bens causing the total time tantaneously). P142 Comment Status X be updated per the update	e the transition to d) from IDLE_PF e to still be gated <i>L</i> 1	o SISM_START is RI to d by Tcc2det (as the # <u>r02-141</u> <i>Pres: Darshan3</i>	Change to do_ Proposed Respons PROPOSED A OBES by 86 Cl 145 SC 1 Darshan, Yair Comment Type Typo in "do_in SuggestedRemedy	initialize se ACCEPT IN 45.2.7 T nitialialize" in / do_initialial se	PRINCIPLE. P142 Comment Status D n IDLE. Need to be "do_initiali ize" to "do_initialize" Response Status W		.02.100

Pa **142** Li **7**

C/ 145 SC 145.2.7 P142 L9 # r02-138 Darshan, Yair	C/ 145 SC 145.2.5.7 P 143 L 17 # r02-90 Law, David Hewlett Packard Enter
Comment Type T Comment Status D PSE SD pse_allocated_pwr is set to zero in the IDLE state although in CLASSIFICATION state (page 144) we have the same initialization. The proper place is to use it in	Comment Type T Comment Status D PSE SD In Figure 145-13 the transition from BACKOFF to IDLE could be misread to require two conditions, 'tdbo_timer_done' and then the second (pse_alternative = both) * ((det_temp
CLASSIFICATION which is the first time we need it and we have it there. SuggestedRemedy Remove pse_allocated_pwr from IDLE. Proposed Response Response Status W PROPOSED ACCEPT.	 = b) * (sig_pri = open_circuit). SuggestedRemedy Suggest that the horizontal line and arrow from the BACKOFF state be lowered so that it connects to the IDLE arrow box in the lower right of the page. Proposed Response Response Status W
Cl 145 SC 145.2.7 P142 L14 # r02-136 Darshan, Yair Comment Type T Comment Status X PSE SD	PROPOSED ACCEPT. C/ 145 SC 145.2.7 P 143 L 19 # [r02-139] Darshan, Yair
In the IDLE state, the do_initialialize function return the variable alt_pri (in which "a" or "b" is set) and also pse_alternative is set (which Pinouts Alternative PSE uses A, B or both)))". Later, still in IDLE state, we have the following IF statement: IF (pse_alternative != both) THEN alt_pri <== pse_alternative END The problem is that to initialize alt_pri in two locations in the same state is redundant and confusing. Proposal	Comment Type T Comment Status D PSE SD There is error in the exit from CXN_CHK_DETECT_EVAL to SISM_START. We got to this place after setting CC_DET_SEQ=2 where we did detection and connection check which required both pairs to be with valid signature to continue with sism=TRUE. Therefore the condition (sig_type = dual) *((sig_pri = valid) + (sig_sec = valid)) need to be (sig_type = dual) *((sig_pri = valid) * (sig_sec = valid)). As a result the condition from CXN_CHK_DETECT_EVAL to IDLE need to be updated accordingly to "(sig_type = invalid) + (sig_type = single) *((sig_pri != valid) + (sig_sec != valid)) + (sig_type = dual) *((sig_pri != valid) + (sig_sec != valid))"
1. To delete alt_pri from the function do_initialize on page 140 line 17. 2. To restore what we had in D3.1: IF (pse_alternative != both) THEN alt_pri <== pse_alternative ELSE alt_pri <== user defined END.	SuggestedRemedy 1. Change the exit from CXN_CHK_DETECT_EVAL to SISM_START from: (sig_type = dual) *((sig_pri = valid) +(sig_sec = valid)) To: (sig_type = dual) *((sig_pri = valid) * (sig_sec = valid)) 2. Change the exit from CXN_CHK_DETECT_EVAL to IDLE from:
SuggestedRemedy 1. To delete alt_pri from the function do_initialize on page 140 line 17. 2. To restore what we had in D3.1:	"(sig_type = invalid) +(sig_type = single) *((sig_pri != valid) +(sig_sec != valid)) +(sig_type = dual) *(sig_pri != valid) *(sig_sec != valid)" To: "(sig_type = invalid) +(sig_type = single) *((sig_pri != valid) +(sig_sec != valid)) +(sig_type = dual) *((sig_pri != valid) +(sig_sec != valid))"
IF (pse_alternative != both) THEN alt_pri <== pse_alternative ELSE alt_pri <== user defined END	Proposed Response Response Status W PROPOSED REJECT.
Proposed Response Response Status W TFTD	This would not allow you to power a DS PD that has an invalid detect signature on one of the pairsets. Is that what you want?

Pa **143** Li **19**

C/ 145 SC 145.2 Darshan, Yair	2.7 P144	L 33	# r02-137	<i>Cl</i> 145 Law, David	SC 145.2.5.7	P 146 Hewlett P	L 37 Packard Enter	# r02-87
In the exit from CL/ In the exit from CL/ both)" This is not required	Comment Status D 74 (D3.1) we did some changes th ASS_EV2 to MARK_EV2 we add ASS_EV2 to MARK_EV_LAST we distinct the argument that was used d_pwr is set to 4 in CLASS_EV2	l the variable "*() re add the variat ed to justify this	pse_alternative=both)" ble "*(pse_alternative != change can't happen	line of unders Suggested	re 145-13, on the equation, 'err core).	Comment Status D e transition from POWEF for sec' should read 'erro		,
SuggestedRemedy Restore to D3.1 all	the changes done for comment	r01-174.		Proposed PROP	Response OSED ACCEPT.	Response Status W		
Proposed Response PROPOSED REJE	Response Status W			<i>Cl</i> 145 Law, David	SC 145.2.5.7	P 147 Hewlett P	L 42 Packard Enter	# r02-91
events (since they Cl 145 SC 145.2 Darshan, Yair Comment Type T There is missing pa alt_pwrd_sec=TRU The current logic is IF (pse_alternative alt_pwrd_sec <== - start tinrush_timer_ END It should be that alt pse_alternative=BC OR	Comment Status D arenthesis in the logic of the PO JE and tinrush timer sec is started s: = both) *(pse_ss_mode = 1) +(p TRUE	L 9 WER_UP state se_allocated_pv mer sec is starte	# <u>r02-111</u> <i>PSE SD</i> when wr > 4) THEN	Figure Suggested Sugge pse_dl Proposed I	riable pse_dll_re 145-14. <i>Remedy</i> st that the followi I_ready: See pse	Comment Status D ady is not defined in sub ng is added to subclause a_dll_ready in 145.5.3.2.2 Response Status W	e 145.2.5.4 'Variabl	
which result with:	OTH and pse_anocated_pwi>4 OTH)* ((pse_ss_mode=1)+(pse_	_allocated_pwr>	-4))					
Change from: "IF () THEN "	pse_alternative = both) *(pse_ss_ ative = both) *((pse_ss_mode = ^							
Proposed Response PROPOSED REJE	Response Status W	., . (poo_anooa						
	equivalent because pse_alternat to ever be greater than 4. See r							
						_		

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Page, Line Pa **147** Li **42**

C/ 145 SC 145.2.5.7 P148 L 17 # r02-133 Darshan, Yair	C/ 145 SC 145.2.5.7 P 152 L 7 # r02-32 Yseboodt, Lennart Philips Lighting Philips Lighting
Comment Type T Comment Status X PSE SD This comment is marked AVI_22 in D3.1 COMMENT 433 and was not resolved fully by http://www.ieee802.org/3/bt/public/nov17/yseboodt_03_1117_final.pdf as indicated by the remedy for r01-433. PSE SD	Comment Type T Comment Status D PSE Status In state ENTRY_SEC the variable "alt_done_pri" is set to False. This should be "alt_done_sec". This set to False. This set to False.
The variable det_start_pri is set to TRUE in INIT_PRI. In case CC_DET_SEQ=2 the variable det_start_pri is set to TRUE after detection is done and the purpose of this variable is to indicate when detection is start which is the primary tells the secondary that it is between START_DETECT and POWER_UP. In addition, in all other CC_DET_SEQ sequences, det_start_pri is set to TRUE in INIT_PRI and then again in START_DETECT_PRI which is redundant. The solution is to move "det_start_pri <== TRUE" from INIT_PRI to START_CXN_CHK_DETECT which is the correct place for CC_DET_SEQ=2.	Copy paste mistake versus baseline yseboodt_03_1117_final.pdf SuggestedRemedy Change "alt_done_pri" to "alt_done_sec". Proposed Response Response Status W PROPOSED ACCEPT.
The same problem applies to the secondary as well. SuggestedRemedy	C/ 145 SC 145.2.5.7 P 153 L 8 # r02-33 Yseboodt, Lennart Philips Lighting Philips Lighting Philips Lighting Philips Lighting
 Move "det_start_pri <== TRUE" from INIT_PRI to START_CXN_CHK_DETECT on page 142. Move "det_start_sec <== TRUE" from INIT_SEC to START_CXN_CHK_DETECT on 	Comment Type T Comment Status D PSE St OOS
page 142. Proposed Response Response Status W	From state CLASSIFICATION_SEC to CLASS_EV1_LCE_SEC the exit branch variable is !option_class_probe. This should not depend on the Single signature variable but on the dual sig variable.
TFTD Can a SD expert help me check this?	SuggestedRemedy Change to: !option_class_probe_sec
CI 145 SC 145.2.5.7 P 149 L 8 # [r02-31] Yseboodt, Lennart Philips Lighting Philips	Proposed Response Response Status W PROPOSED ACCEPT.
Comment Type T Comment Status D PSE SD OOS	
From state CLASSIFICATION_PRI to CLASS_EV1_LCE_PRI the exit branch variable is !option_class_probe. This should not depend on the Single signature variable but on the dual sig variable.	
SuggestedRemedy	
Change to: !option_class_probe_pri	
Proposed Response Response Status W	

PROPOSED ACCEPT.

Pa **153** Li **8**

C/ 145 SC 145.2.6.1 Yseboodt, Lennart	P 157 Philips Lighting	L 17	# r02-34	C/ 145 Anslow, Pet	SC 145 ter	P 157 Ciena Corpor	L 45 ation	# r02-1
Comment Type E	Comment Status D		Editorial	Comment T	Type TR	Comment Status D		Editorial
Comment Type E Comment Status D Editorial OOS Detection and connection check are two different things, operating at about the same level. And yet, the connection check subclause (145.2.6.1) is under the detection subclause (145.2.6). It would make more sense to have connection check sit at the same level as detection. What do we do with the 4PID subclause, which has depencies on detection, cc, classification, and mutual ID. If we structure things roughly in the same way as they happen, we should have all of them sit at the 145.X.Y level in this order: 145.2.6 Detection 145.2.7 PSE classification of PDs and mutual ID 145.2.7a 4PID requirements D				The response to unsatisfied comment r01-30 against D3.1 was: "REJECT. The comment resolution group believes that the em-dash is technically inaccurate for the entries as it means there is "a lack of data". In Clause 145 the empty cells are due to openended ranges, not a lack of data." In order to clarify the meaning of an em-dash in tables within 802.3, a comment has been submitted against the revision project with the following suggested remedy Add a new subclause 1.2.8: 1.2.8 Em dash () in a table cell A table cell containing an em-dash () indicates a lack of data for that cell, or: - For a units cell, that there is no unit for that parameter - For a maximum cell, that there is no requirement on the maximum value of that parameter - For a minimum cell, that there is no requirement on the minimum value of that parameter - For a minimum cell, that there is no requirement on the minimum value of that parameter - For a minimum cell, that there is no requirement on the minimum value of that parameter - For a minimum cell, that there is no requirement on the minimum value of that parameter - For a minimum cell, that there is no requirement on the minimum value of that parameter - For a minimum cell, that there is no requirement on the minimum value of that parameter - For a minimum cell, that there is no requirement on the minimum value of that parameter - For a minimum cell, that there is no requirement on the minimum value of that parameter - For a minimum cell, that there is no requirement on the minimum value of that parameter - For a minimum cell, that there is no requirement on the minimum value of that parameter - For a minimum cell, that there is no requirement on the minimum value of that parameter - For a minimum cell, that there is no requirement on the minimum value of that parameter - For a minimum cell, that there is no requirement on the minimum value of that parameter - For a minimum cell, that there is no requirement on the minimum value of that parameter				
145.2.7 PSE classificat	s follows: of PDs [NO CHANGE] heck [Bump up 1 level, change tion of PDs and mutual ID [NC nents [Bump up 1 level, move	CHANGE]	tle, move here]	blank m In partio 145-28, Proposed F	nin or max colu cular, Tables 14 , 145-29, 145-3	Response Status W	ner recent ame	ndments to IEEE 802.3.
PROPOSED ACCEPT.	,							

TFTD

Pa **157** Li **45**

C/ 145 SC 145.2.6.5 P15) L 52	# r02-35	C/ 145 SC 145	.2.6.4 P160	L1	# r02-14
	Lighting	# r02-35	Jones, Chad	Cisco Syste	-	# r02-14
Comment Type E Comment Status)	PSE Detection	Comment Type E	Comment Status D		Editorial
OOS				Table 145-9 with 145.2.6.4? right to a table but not that table.	t now it's in the m	iddle of 145.2.6.5 and
"The PSE shall reject as an invalid detection following characteristics as defined in Table 1		hich exhibits any of the	SuggestedRemedy	145-9 to 145.2.6.4		
Typical of AF-era text it refers to things by re Table 145-9, not the list that is being referred		m is, what follows is	Proposed Response PROPOSED ACC	Response Status W		
SuggestedRemedy				-		
Fix as follows: "The PSE shall reject as an invalid detection following characteristics:" [FRAME: keep with		hich exhibits any of the	Cl 145 SC 145 Yseboodt, Lennart	.2.7 P 161 Philips Ligh	L 25 nting	# r02-36
 a) Resistance less than or equal to R bad n b) Resistance greater than or equal to R ba c) Capacitance greater than or equal to C b 	in, or 1 max, or	eep with next]	Comment Type E OOS	Comment Status D		Editorial
"R bad min, R bad max, and C bad min are c Proposed Response Response Status PROPOSED ACCEPT.		0."	of class signature	s to each class event with a curr s. The class signatures generate 145-26 and Table 145-27 for a r	ed by the PD indi	cate the PD requested
C/ 145 SC 145.2.6.5 P15 Darshan, Yair) L 53	# r02-125		tempt at defining the PD request d to Type 1), this seems a good		
Comment Type T Comment Status)	Ediorial	SuggestedRemedy			
Typo: " Reject **as** an invalid". Remove	as".		Add a note after t			
SuggestedRemedy Remove "as".				be 3 PDs, a requested Class 0 is al Layer classification requested		
Proposed Response Response Status	N		Insert the same n	ote in 145.3.6.1, on page 201, li	ne 4.	
PROPOSED REJECT.			Proposed Response	Response Status W		
The "as" is needed as this sentence is definin 35 has changed this sentence.	g the invalid signatu	re. Note that comment	PROPOSED ACC	,		

Pa **161** Li **25**

C/ 145 SC 145.2.7 P161 L 33 # [r02-37] Yseboodt, Lennart Philips Lighting	C/ 145 SC 145.2.7 P162 L 19 # r02-112 Darshan, Yair
Comment Type E Comment Status D Edito	In D3.1 we had the text "PSEs that have additional information about the actual link section DC resistance or temperature conditions may choose to use a lower Autoclass margin than
The sentence "The minimum power output a PSE supports depends on the assigne Class."	that defined by Equation (145-4)." and it was removed in D3.2. It is better if it will be restored since the difference between worst case margin Pac_margin and the actual margin required is not negligible.
The equivalent dual-sig sentence says "minimum output power". SuggestedRemedy	SuggestedRemedy Add the following text after line 21 in page 162:
Change to "The minimum output power a PSE supports depends on the assigned Class.Proposed ResponseResponse StatusW	" "PSEs that have additional information about the actual link section DC resistance or temperature conditions may choose to use a lower Autoclass margin than that defined by Table 145-15."
PROPOSED ACCEPT. <i>CI</i> 145 SC 145.2.7 P162 <i>L</i> 18 # r02-15	Proposed Response Response Status W PROPOSED REJECT.
Jones, Chad Cisco Systems, Inc.	This sentence was removed intentionally because the amount of margin required was drastically reduced.
missing space after comma: "increased by at least Pac_margin,as defined in". Add space SuggestedRemedy	e. C/ 145 SC 145.2.7 P 162 L 22 # r02-113 Darshan, Yair
change to: "increased by at least Pac_margin, as defined in" Proposed Response Response Status W PROPOSED ACCEPT.	Comment Type T Comment Status D Autoclass I don't see the justification to remove the text from D3.1: "PSEs that have additional information about the actual link section DC resistance or temperature conditions may choose to use a lower Autoclass margin than that defined by Equation (145-4)."
Cl 145 SC 145.2.7 P162 L 19 # r02-75 Stover, David Analog Devices Inc. Comment Type E Comment Status D Missing a space between words SuggestedRemedy Change:	SuggestedRemedy Append the following text after line 21: "PSEs that have additional information about the actual link section DC resistance or temperature conditions may choose to use a lower Autoclass margin than that defined by Equation (145-4)." Proposed Response Response Status W PROPOSED REJECT.
"Pac_margin,as defined" To: "Pac_margin, as defined" <i>Proposed Response</i> Response Status W PROPOSED ACCEPT IN PRINCIPLE.	This sentence was removed intentionally because the amount of margin required was drastically reduced.
OBE by 15	

Pa **162** Li **22**

C/ 145 SC 145.2.7.1 Yseboodt, Lennart	P 165 Philips Lighting	L 2	# r02	2-38	<i>Cl</i> 145 Yseboodt, I	SC 145.2.7. 1 Lennart		5 <i>L</i> 23 Lighting	# r02-39
Comment Type E OOS	Comment Status D			Editorial	Comment 7 OOS	Гуре Т	Comment Status	x	Classification
PD PI"	ion, the class sig table is titled	Ū		ed at the	betwee to any o	n the most rece of the power up	states."	V Reset for at least T	apable of supporting Reset and a transition
The header in Table 145 Make consistent with PD	-13 is mentioning PD in PSE table header.	section.			A PSE				(eg. 2 events for a PD
SuggestedRemedy Change table titles to 145-13: "Class signature 145-24: "Class signature	evaluated at the PSE PI" generated at the PD PI"					t a PICS entry o	nall is duplicate to the s f its own.	tate diagram, it is im	portant enough to
Proposed Response	Response Status W				Add the	e following after	the quoted sentence.		
PROPOSED ACCEPT.					- one c - three - four c - five cl betwee	lass event wher class events whe lass events whe ass events whe		s 1 through 3 lass 4 lss 5 or 6 ss 7 or 8	n: Reset and a transition
					- three - four c betwee	class events whe		ass 1 through 4 ss 5	irset, no more than: Reset and a transition
					Proposed F TFTD	Response	Response Status	w	
							ludes a shall that seen here. Should we remo		, more specific shall than of the sentences?

Pa **165** Li **23**

C/ 145 SC 145.2.7.1 Stover, David	P165 Analog Devices	L 33 i Inc.	# r02-76	C/ 145 SC 145.2.7. Yseboodt, Lennart	2 P167 Philips Lighting	L 7	# <u>r02-41</u>
state name is missing SuggestedRemedy	Comment Status D led PSE in CLASS EV1 AUTO underscores		Editorial	POWER_ON state an	Comment Status D ts Autoclass it shall measure P id pd_autoclass is TRUE. P Aut ghout the period bounded by T o 15."	toclass is the po	ower provided by the
Proposed Response PROPOSED ACCEPT C/ 145 SC 145.2.7.2	Response Status W	L7	# r02-40	2P mode, the channe	4, if the PSE measures Autocla losses will roughly double. bes not know what the PD powe		
Yseboodt, Lennart Comment Type E	Philips Lighting Comment Status D	-	Editorial		o require PSEs that plan to tran neasurement in 2P mode.	nsition back into	2P mode, to also
•	nents Autoclass it shall measu I pd_autoclass is TRUE. P Aut			Append sentence at the	he end of the quoted text: SEs that have assigned Class 1	l through 4, and	I have measured

POWER_ON state and pd_autoclass is TRUE. P Autoclass is the power provided by the PSE measured throughout the period bounded by T AUTO_PSE1 and T AUTO_PSE2, defined in Table 145-15. P ac_margin, defined in Table 145-15, is the mini- mum amount of power the PSE adds to P Autoclass in order to allocate enough power to cope with increases in the link section resistance due to temperature increase. T AUTO_PSE1 and T AUTO_PSE1 and T AUTO_PSE2 timing is referenced from the transition of the POWER_UP state to the POWER_ON state."

3 instances of "the XXX_YYY state"

SuggestedRemedy

Remove 'the' and 'state'.

Proposed Response Response Status W

PROPOSED ACCEPT.

PAutoclass in 4-pair mode, shall not transition to 2-pair mode". Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Add "Note--PSEs that have measured Pautoclass in 4-pair mode should account for the increased channel resistance if transitioning to 2-pair mode."

after line 16

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

Pa **167** Li **7** Page 22 of 37 12/19/2017 4:55:38 PM

Cl 145 SC 145.2.7.2 P 167 Yseboodt, Lennart Philips Lightir	L 22 ng	# r02-42	C/ 145 SC Darshan, Yair	0 145.2.7	P167	L 36	# r02-121
Comment Type T Comment Status X OOS		Pres: Yseboodt1			Comment Status X as has some errors and need to arshan_01_0118.pdf.	be updated.	Pres: Darshan1 See updates for
The Autoclass timings T_AUTO_PSE1 and T_ transition of POWER_UP to POWER_ON".	AUTO_PSE2 a	re referenced "from the	SuggestedReme Adopt darsh	ədy			
This has two issues: - it is not observable at the PSE PI when this h - the PSE and PD reference points can drift ap			Proposed Respo TFTD	onse	Response Status W		
While the timings do work out in any permutat	on, it makes it h	ard to comprehend.	WFP				
SuggestedRemedy Recommend to pick a new unified reference point,	which is always	the same for PSE and	CI 145 SC Yseboodt, Lenna	C 145.2.8 art	P 167 Philips Lighting	L 39	# r02-43
PD and possible adjust timings to compensate. Adopt yseboodt_01_0118_autoclasstime.pdf			Comment Type	Е	Comment Status D		Editorial
Proposed Response Response Status W					placed inside of 145.2.8.1.		
TFTD			SuggestedReme	-			
WFP			Proposed Respo		FTER Table 145-16.		
C/ 145 SC 145.2.7.2 P167	L 32	# r02-130	PROPOSEI		Response Status W		
Darshan, Yair			C/ 145 SC	C 145.2.8.1	P167	L 46	# r02-44
Comment Type T Comment Status D		Autoclass	Yseboodt, Lenna		Philips Lighting	240	102-44
Type 3 and 4 PSE when connected to class 0 PD n items 4: class 1-4 need to be Class 0 to 4	eed to support i	t as well. I able 145-15	Comment Type	Е	Comment Status D		Editoria
SuggestedRemedy			OOS				
In Table 145-15: Change "Class 1-4" to "Class 0 to 4"			"145.2	.8.1 Output	voltage in the POWER_ON stat	e"	
Proposed Response Response Status W			We do	n't use 'the	XXX state' construction		
PROPOSED REJECT.			SuggestedReme	ədy			
Only Type 3 and 4 PDs can use Autoclass. These	cannot be Class	s 0.	Change to: "145.2.8.1 C	Dutput volta	ge in POWER_ON"		
			Proposed Respo PROPOSEI		Response Status W IN PRINCIPLE.		
			Change to:		ge in a power on state"		

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

Pa **167** Li **46** Page 23 of 37 12/19/2017 4:55:38 PM

			•				
Cl 145 SC 145.2.8.1 Darshan, Yair	P 168	L 25	# r02-129	Cl 145 SC 145.2.8.1 Darshan, Yair	P 169	L 45	# r02-132
Comment Type T	Comment Status D			Comment Type T	Comment Status D		
	n connected to class 0 PD nee 1-4 need to be Class 0 to 4	ed to support in	as well. Table 145-16		n connected to class 0 PD nee ed to be Class 0 to 4 for 2-pair		
SuggestedRemedy				SuggestedRemedy			
In Table 145-16 items 5 Change "Class 1-4" to	,			In Table 145-16 items 1 Change "Class 1-4" to	18 for 2-pair and 4-pair rows: "Class 0 to 4"		
Proposed Response	Response Status W			Proposed Response	Response Status W		
PROPOSED REJECT.				PROPOSED REJECT.			
	l dependent on "assigned clas ncluded in the table already.	s". Class 0 Pl	Ds are assigned to	Item 18 is dependent o included in the table alr	n "assigned class". Class 0 P ready.	Ds are assigne	d to Class 3, thus it is
C/ 145 SC 145.2.8.1	P 169	L 14	# r02-131	C/ 145 SC 145.2.8.2	P170	L 43	# r02-16
Darshan, Yair				Jones, Chad	Cisco Systems	, Inc.	
Comment Type T	Comment Status D			Comment Type E	Comment Status D		Editorial
	n connected to class 0 PD nee ed to be Class 0 to 3	ed to support in	as well. Table 145-16	"in a power on state" ju state" to "POWER_ON	st two paragraphs above in 14 ". Did we miss one?	5.2.8.1 we cha	nged "a power on
SuggestedRemedy				SuggestedRemedy			
In Table 145-16 items 1				change "a power on sta	ate" to "POWER_ON"		
Change "Class 1-3" to	"Class 0 to 3"			Proposed Response	Response Status W		
Proposed Response	Response Status W			PROPOSED REJECT.			
PROPOSED REJECT.				This area applies to all	nower on states (CC and DC)	The approximation	aita ahaya anlu
Item 11 is dependent of included in the table alr	n "assigned class". Class 0 Pl eady.	Ds are assigne	ed to Class 3, thus it is		power on states (SS and DS). thus only needs to reference F		site above only
C/ 145 SC 145.2.8.1	P 169	L 32	# r02-77				
Lukacs, Miklos	Silicon Laborate	ories					
Comment Type E	Comment Status D		Editorial				
	3 in the "Additional Information as no information about Ptype.		Table 145-16 is wrong.				
SuggestedRemedy							
Remove the reference.							
Proposed Response	Response Status W						
PROPOSED ACCEPT.							

Pa **170** Li **43**

C/ 145 SC 145.2.8.6 P 175 L 54 # r02-122 Darshan, Yair	C/ 145 SC 145.2.8.8 P 178 L 12 # r02-78 Lukacs, Miklos Silicon Laboratories Silicon Laboratories Filter Filter
Comment Type T Comment Status X Inrush	Comment Type E Comment Status D Editor
"Power up occurs on each pairset between the transition to a power up state on that pairset and the expiration of TInrush. PSEs that have assigned Class 5 to 8 to a single-signature	Ilps is referring to to a current on a pairset, but this is not shown in the name of this parameter.
PD shall reach POWER_UP on both pairsets within TInrush max, starting with the first pairset transitioning into the power up state, and where the second pairset transitions to a power up state anytime within this time period."	SuggestedRemedy Rename Ilps to Ilps-2p
1. The above text doesn't cover single-signature PD class 1-4 operating only over 4-pairs regarding power up requirements. They should have the same requirements as for single-signature PD class 5-8.	Proposed Response Response Status W PROPOSED ACCEPT.
2. The current text in page 175 lines 54 and page 176 lines 1-2 take care of the possibility to flip between 2P and 4P and is good however this text is also true for class 1-4 operating only over 4-pairs as well.	C/ 145 SC 145.2.8.8 P 178 L 32 # [r02-79] Lukacs, Miklos Silicon Laboratories
3. If we are working over 2-pairs only, no special requirements are needed for powerup because it is straight forward and explained in page 175 lines 52-53 as for when powerup	Comment Type E Comment Status D Editor
occurs.	Ilps is referring to to a current on a pairset, but this is not shown in the name of this parameter.
SuggestedRemedy Change from: "Power up occurs on each pairset between the transition to a power up state on that pairset and the expiration of TInrush. PSEs that have assigned Class 5 to 8 to a	
SuggestedRemedy Change from: "Power up occurs on each pairset between the transition to a power up state on that pairset and the expiration of TInrush. PSEs that have assigned Class 5 to 8 to a single-signature PD shall reach POWER_UP on both pairsets within TInrush max, starting with the first pairset transitioning into the power up state, and where the second pairset transitions to a power up state anytime within this time period."	parameter. SuggestedRemedy
SuggestedRemedy Change from: "Power up occurs on each pairset between the transition to a power up state on that pairset and the expiration of TInrush. PSEs that have assigned Class 5 to 8 to a single-signature PD shall reach POWER_UP on both pairsets within TInrush max, starting with the first pairset transitioning into the power up state, and where the second pairset transitions to a power up state anytime within this time period." To: "Power up occurs on each pairset between the transition to a power up state on that pairset and the expiration of TInrush. PSEs connected to single-signature PD that operates over 4-pairs shall reach POWER_UP on both pairsets within TInrush max, starting with the	parameter. SuggestedRemedy Rename Ilps to Ilps-2p Proposed Response Response Status W
SuggestedRemedy Change from: "Power up occurs on each pairset between the transition to a power up state on that pairset and the expiration of TInrush. PSEs that have assigned Class 5 to 8 to a single-signature PD shall reach POWER_UP on both pairsets within TInrush max, starting with the first pairset transitioning into the power up state, and where the second pairset transitions to a power up state anytime within this time period." To: "Power up occurs on each pairset between the transition to a power up state on that pairset and the expiration of TInrush. PSEs connected to single-signature PD that operates	parameter. SuggestedRemedy Rename Ilps to Ilps-2p Proposed Response Response Status W PROPOSED ACCEPT. Cl 145 SC 145.2.8.8 P178 L 40 # [102-80]
SuggestedRemedy Change from: "Power up occurs on each pairset between the transition to a power up state on that pairset and the expiration of Tlnrush. PSEs that have assigned Class 5 to 8 to a single-signature PD shall reach POWER_UP on both pairsets within Tlnrush max, starting with the first pairset transitioning into the power up state, and where the second pairset transitions to a power up state anytime within this time period." To: "Power up occurs on each pairset between the transition to a power up state on that pairset and the expiration of Tlnrush. PSEs connected to single-signature PD that operates over 4-pairs shall reach POWER_UP on both pairsets within Tlnrush max, starting with the first pairset transitioning into the power up state, and where the second pairset transitions to a power up state anytime within this time period." Proposed Response Response Status W	parameter. SuggestedRemedy Rename Ilps to Ilps-2p Proposed Response Response Status W PROPOSED ACCEPT. Cl 145 SC 145.2.8.8 P178 L 40 # r02-80 Lukacs, Miklos Silicon Laboratories
 Change from: "Power up occurs on each pairset between the transition to a power up state on that pairset and the expiration of TInrush. PSEs that have assigned Class 5 to 8 to a single-signature PD shall reach POWER_UP on both pairsets within TInrush max, starting with the first pairset transitioning into the power up state, and where the second pairset transitions to a power up state anytime within this time period." To: "Power up occurs on each pairset between the transition to a power up state on that pairset and the expiration of TInrush. PSEs connected to single-signature PD that operates over 4-pairs shall reach POWER_UP on both pairsets within TInrush max, starting with the first pairset transitioning into the power up state, and where the second pairset transitions to a power up state on that pairset shall reach POWER_UP on both pairsets within TInrush max, starting with the first pairset transitioning into the power up state, and where the second pairset transitions to a power up state anytime within this time period." 	parameter. SuggestedRemedy Rename Ilps to Ilps-2p Proposed Response Response Status W PROPOSED ACCEPT. Cl 145 SC 145.28.8 P178 L 40 # [102-80] Lukacs, Miklos Silicon Laboratories Comment Type E Comment Status D Editor Ilps is referring to to a current on a pairset, but this is not shown in the name of this
SuggestedRemedy Change from: "Power up occurs on each pairset between the transition to a power up state on that pairset and the expiration of TInrush. PSEs that have assigned Class 5 to 8 to a single-signature PD shall reach POWER_UP on both pairsets within TInrush max, starting with the first pairset transitioning into the power up state, and where the second pairset transitions to a power up state anytime within this time period." To: "Power up occurs on each pairset between the transition to a power up state on that pairset and the expiration of TInrush. PSEs connected to single-signature PD that operates over 4-pairs shall reach POWER_UP on both pairsets within TInrush max, starting with the first pairset transitioning into the power up state, and where the second pairset transitions to a power up state anytime within this time period." Proposed Response Response Status W TFTD While I understand your point, the text and SD were designed this way intentionally. If I	parameter. SuggestedRemedy Rename Ilps to Ilps-2p Proposed Response Response Status W PROPOSED ACCEPT. Cl 145 SC 145.2.8.8 P178 L 40 # r02-80 Lukacs, Miklos Silicon Laboratories Comment Type E Comment Status D Editor Ilps is referring to to a current on a pairset, but this is not shown in the name of this parameter.
SuggestedRemedy Change from: "Power up occurs on each pairset between the transition to a power up state on that pairset and the expiration of TInrush. PSEs that have assigned Class 5 to 8 to a single-signature PD shall reach POWER_UP on both pairsets within TInrush max, starting with the first pairset transitioning into the power up state, and where the second pairset transitions to a power up state anytime within this time period." To: "Power up occurs on each pairset between the transition to a power up state on that pairset and the expiration of TInrush. PSEs connected to single-signature PD that operates over 4-pairs shall reach POWER_UP on both pairsets within TInrush max, starting with the first pairset transitioning into the power up state, and where the second pairset transitions to a power up state anytime within this time period." Proposed Response Response Status W TFTD TFTD TFTD	parameter. SuggestedRemedy Rename Ilps to Ilps-2p Proposed Response Response Status W PROPOSED ACCEPT. Cl 145 SC 145.2.8.8 P178 L 40 # r02-80 Lukacs, Miklos Silicon Laboratories Comment Type E Comment Status D Editor Ilps is referring to to a current on a pairset, but this is not shown in the name of this parameter. SuggestedRemedy

Pa **178** Li **40**

C/ 145 SC 145.2.8.12 Lukacs, Miklos	P 179 Silicon Labora	L 52 tories	# r02-81	C/ 145 SC 145.3.3.3.3 P188 L 47 # r02-1	14
Comment Type E Ilps is referring to to a co parameter. SuggestedRemedy	Comment Status D urrent on a pairset, but this is		<i>Editorial</i> the name of this	Comment Type T Comment Status D The definition of "tinrushpdmax_timer A timer used to prevent the PD from drawing than IInrush_PD and IInrush_PD-2P from TInrush_PD to Tdelay; see TInrush_PD n Table 145-29. " is incorrect this timer has nothing to do with Tdelay. SuggestedRemedy	
Rename Ilps to Ilps-2p Proposed Response PROPOSED ACCEPT.	Response Status W			1. Change to: "tinrushpdmax_timer A timer used to determine when the PD exits INRUSH; see TInrush_PD max in Table 145-29." 2. The same for dual-signature PD on page 195 clause 145.3.3.4.3:	
Cl 145 SC 145.2.8.12 Lukacs, Miklos Comment Type G Ilps is referring to to a co parameter.	P 180 Silicon Labora <i>Comment Status</i> D urrent on a pairset, but this is		# <u>r02-82</u> <i>Editorial</i> the name of this	Change to: "tinrushpdmax_timer_mode(X) A timer used to determine when the PD exits INRUS Mode X; see TInrush_PD max in Table 145-29." Proposed Response Response Status W PROPOSED ACCEPT.	H over
SuggestedRemedy Rename Ilpsto Ilps-2p				Cl 145 SC 145.3.3.3.5 P 191 L 44 # r02-4 Yseboodt, Lennart Philips Lighting	5
Proposed Response PROPOSED ACCEPT.	Response Status W			Comment Type T Comment Status D Arc from POWERED to POWER_UPDATE became "pd_power_update * pd_dll_er (V PD >= V Off_PD)" compared to draft 3.1.	PD SL nable *
Cl 145 SC 145.3.2 Lukacs, Miklos	P 183 Silicon Labora	L 16 tories	# r02-83	Our convention in these state diagrams is to use x>y and x <y and="" equal<="" include="" not="" td=""><td>ty.</td></y>	ty.
	Comment Status D the following sentence: any voltage from 0 V to 57 V n Table 145-20 indefinitely wi			SuggestedRemedy Change "VPD >= Voff_PD" back to "VPD > Voff_PD". Proposed Response Response Status W	
SuggestedRemedy add "to the PD PI"		·	J	PROPOSED REJECT. This would result in a case where neither arc leaving POWERED is true and the PD not perform a POWER_UPDATE when it should.	would
57V applied to the PE Proposed Response PROPOSED ACCEPT.	DPI per any Response Status W				

Pa **191** Li **44**

C/ 145 SC 145.3.6.1.1 P 203 L 31 # r02-46 Yseboodt, Lennart Philips Lighting Philips Lighting Philips Lighting Philips Lighting	C/ 145 SC 145.3.6.2 P 203 L 46 # r02-134 Darshan, Yair
	PROPOSED REJECT. The order of precedence is explained in 145.3.8.2. The sentence in the suggested remedy is covered by the requirement not to exceed PDMaxPowerValue.

Pa **203** Li **46**

Cl 145 SC 145.3.6.2 Yseboodt, Lennart	P 204 Philips Lighting	L 8	# r02-47	C/ 145 SC 145.3.8 Yseboodt, Lennart	P 205 Philips Lighting	L 36	# r02-50
Comment Type E OOS	Comment Status D		Editorial	Comment Type E OOS	Comment Status D		Editorial
"Measured from transition	on to state DO_CLASS_EVEN	Γ1"		Table 145-29, item 7, T	delay, description is "Inrush to o	perating state	e delay per pairset"
No need to say 'state'. <i>SuggestedRemedy</i> Strike 'state'.				the 'per pairset' is redu SuggestedRemedy		ush to PD cur	rent control delay"
Proposed Response PROPOSED ACCEPT.	Response Status W			Remove 'per pairset' fro Proposed Response PROPOSED ACCEPT.	Response Status W		
Copy-paste mistake.	P 205 Philips Lighting Comment Status D or dual-signature, last row is lab	L 16 elled "Class 7 t	# <u>r02-48</u> <i>Editorial</i> o 8".	, ,	P 207 Philips Lighting Comment Status D itemnumber is in bold when it sh	L 16	# <u>r02-51</u> Editorial
SuggestedRemedy Change to "Class 5"				SuggestedRemedy Unbold.			
Also, both descriptions Proposed Response PROPOSED ACCEPT.	for item 3 need to be appended Response Status W	with "per the a	ssigned Class".	Proposed Response PROPOSED ACCEPT.	Response Status W		
Cl 145 SC 145.3.8 Yseboodt, Lennart	P 205 Philips Lighting	L 30	# r02-49				
Comment Type ER OOS	Comment Status D		Editorial				
Table 145-29, item 5 (II 5 are both 0.4.	nrush_PD-2P), the values for d	ual-sig Class 1·	4 and dual-sig Class				
SuggestedRemedy Merge into single entry.							
Proposed Response PROPOSED ACCEPT.	Response Status W						

Pa **207** Li **16**

barrend Type TR Comment Status D Invasion Comment Type E Comment Status D Edited Except when in the INRUSH state Except when in INRUSH	"The PD shall turn off at a voltage in the range of V Off_PD."	
Except when in the INRUSH state biggestedRemedy Replace by: The PD shall turn off at a voltage in the range of V Off_PD, except when in INRUSH." PROPOSED ACCEPT IN PRINCIPLE. TTTD TTTD That PD shall turn on or off at a voltage in the range of V Off_PD, except when in INRUSH." The TD shall turn off at a voltage in the range of V Off_PD, except when in INRUSH." TTD TTTD That seems really odd, how about 'After reaching POWER_DELAY, the PD shall turn off at a voltage in the range of V Off_PD. which actually matches what the SD does which actually matches what the SD does Vorigoid_mode(X). That seems really odd, how about 'After reaching POWER_DELAY, the PD shall turn off at a voltage in the range of V Off_PD. with a ctually matches what the SD does Which actually matches what the SD does Vorigoid_mode(X). That seems really odd, how about 'After reaching POWER_DELAY, the PD shall turn off at a voltage in the range of V Off_PD. Work actually matches what the SD does Which actually matches what the SD does Vorigoid_mode(X). That seems really odd, how about 'After reaching POWER_DELAY, the PD shall turn off at a voltage in the range of V Off_PD. VOR PD matches 'After		005
buggestedRemedy Replace by: The PD shall turn off at a voltage in the range of V Off_PD, except when in INRUSH." PROPOSED ACCEPT IN PRINCIPLE. TFTD That seems really odd, how about "After reaching POWER_DELAY, the PD shall turn off at a voltage in the variable pd_overload and pd_overload and mode(X). That seems really odd, how about "After reaching POWER_DELAY, the PD shall turn off at a voltage in the range of V Off_PD." which actually matches what the SD dees Which actually matches what the SD dees The particular the second off the targe of V Off_PD. That seems really odd, how about "After reaching POWER_DELAY, the PD shall turn off at a voltage in the range of V Off_PD." which actually matches what the SD dees Which actually matches what the SD dees The particular the second off the targe of V Off_PD. Which actually matches what the SD dees The particular the second off the targe of V Off_PD. Which actually matches what the SD dees The particular the second off the targe of V Off_PD. Which actually matches what the SD dees The particular the second off the targe of V Off_PD. We proposed Response Response Status Bt SuggestedRemedy Second Status Dt We proposed Response Response Sta	Except when in the INPLISH state	
IF ID That seems really odd, how about "After reaching POWER_DELAY, the PD shall turn off at a voltage in the range of V off_PD." value when fed by V Port_PSE-2P max (as defined in Table 145-16) with a series resistance less than or equal to R Ch. !!!V OPD min is set at 30 V to align with V Off_PD min. It is recommended that a PD implements hysteresis between V On_PD and V Off_PD. which actually matches what the SD does value when fed by V Port_PSE-2P max (as defined in Table 145-16) with V Off_PD. which actually matches what the SD does value when fed by V Port_PSE-2P max (as defined in Table 145-16) with V Off_PD. which actually matches what the SD does value when fed by V Port_PSE-2P max (as defined in Table 145-16) with V Off_PD. which actually matches what the SD does value when fed by V Port_PSE-2P max (as defined in Table 145-16) with V Off_PD. which actually matches what the SD does value when fed by V Port_PSE-2P max (as defined in Table 145-16) with V Off_PD. value when fed by V Port_PSE-2P max (as defined in Table 145-16) with V Off_PD. value When the PD. value when fed by V Port_PSE. value when fed by V Port_PSE. value when fed by V Port_PSE. value when fed by V Port_PSE. Value when fed by V Port_PSE. value when fed by V Port_PSE. Value when fed by V Port_PSE. value when fed by V Port_PSE. Value when fed by V Port_PSE. value value value value value value value value value va	ggestedRemedy Replace by: "The PD shall turn off at a voltage in the range of V Off_PD, except when in INRUSH." posed Response Response Status W	shall stay on over the entire V Port_PD-2P range. The PD shall turn off at a voltage in t range of V Off_PD. For dual-signature PDs the requirements for V On_PD and V Off_ apply to each pairset individually. A PD shall not turn off due to peak power draw, caus V PD to go as low as V Overload-2P, as specified in 145.3.8.4, or due to a voltage transient as defined in 145.3.8.6. This behavior is encoded in the variable pd_overload
SuggestedRemedy Move sentences highlighted with !!! to the paragraph above it. Proposed Response Response Status W PROPOSED REJECT. That sentence is there because the hysteresis that it suggests is to solve startup oscillation Cl 145 SC 145.3.8.1 P 208 L 18 # [r02:54] Yseboodt, Lennart Philips Lighting NoPow "When the PD is in POWER_DELAY or POWERED and V PD falls below V Off_PD, the PD transitions to NOPOWER and may show a valid or invalid detection signature, and may or may not draw mark current, draw any class current, and show MPS. When nopower is TRUE interoperability between PSE and PD is no longer guaranteed." Need to be synced with changes to the state diagram done in D3.1. SuggestedRemedy "When the PD is in POWEROFF and V PD falls below V Off_PD min, the PD transitions to NOPOWER and may show a valid or invalid detection signature, and may or may not draw mark current, draw any class current, and show MPS. When nopower is TRUE interoperability between PSE and PD is no longer guaranteed." "When the PD is in POWEROFF and v PD falls below V Off_PD min, the PD transitions to NOPOWER and may show a valid or invalid detection signature, and may or may not draw mark current, draw any class current, and show MPS. When nopower is TRUE interoperability between PSE and PD is no longer guaranteed."	That seems really odd, how about "After reaching POWER_DELAY, the PD shall turn off at	value when fed by V Port_PSE-2P min to V Port_PSE-2P max (as defined in Table 145 with a series resistance less than or equal to R Ch . !!!V On_PD min is set at 30 V to a with V Off_PD min. It is recommended that a PD implements hysteresis between V On
Move sentences highlighted with !!! to the paragraph above it. Proposed Response Response Status W PROPOSED REJECT. That sentence is there because the hysteresis that it suggests is to solve startup oscillation Cl 145 SC 145.3.8.1 P 208 L 18 # [r02:54] Yseboodt, Lennart Philips Lighting NoPowe "When the PD is in POWER_DELAY or POWERED and V PD falls below V Off_PD, the PD transitions to NOPOWER and may show a valid or invalid detection signature, and may or may not draw mark current, draw any class current, and show MPS. When nopower is TRUE interoperability between PSE and PD is no longer guaranteed." Need to be synced with changes to the state diagram done in D3.1. SuggestedRemedy "When the PD is in POWEROFF and V PD falls below V Off_PD min, the PD transitions to NOPOWER and may show a valid or invalid detection signature, and may or may not draw mark current, draw any class current, and show MPS. When nopower is TRUE interoperability between PSE and PD is no longer guaranteed."	which actually matches what the SD does	The part between !!! seems to be misplaced and belongs to the previous paragraph.
Proposed Response Response Status W PROPOSED REJECT. That sentence is there because the hysteresis that it suggests is to solve startup oscillation Cl 145 SC 145.3.8.1 P208 L18 # r02-54 Yseboodt, Lennart Philips Lighting Comment Type TR Comment Status D NoPower "When the PD is in POWER_DELAY or POWERED and V PD falls below V Off_PD, the PD transitions to NOPOWER and may show a valid or invalid detection signature, and may or may not draw mark current, draw any class current, and show MPS. When nopower is TRUE interoperability between PSE and PD is no longer guaranteed." Need to be synced with changes to the state diagram done in D3.1. SuggestedRemedy "When the PD is in POWEROFF and V PD falls below V Off_PD min, the PD transitions to NOPOWER and may show a valid or invalid detection signature, and may or may not draw mark current, draw any class current, and show MPS. When nopower is TRUE interoperability between PSE and PD is no longer guaranteed." When the PD is in POWEROFF and V PD falls below V Off_PD min, the PD transitions to NOPOWER and may show a valid or invalid detection signature, and may or may not draw mark current, draw any class current, and show MPS. When nopower is TRUE interoperability between PSE and PD is no longer guaranteed." "When the PD is in POWEROFF and V PD falls below V Off_PD min, the PD transitions to NOPOWER and may show a valid or invalid detection signature, and may or may not draw mark current, draw any class current, and show MPS		SuggestedRemedy
PROPOSED REJECT. That sentence is there because the hysteresis that it suggests is to solve startup oscillation Cl 145 SC 145.3.8.1 P 208 L 18 # [02-54] Yseboodt, Lennart Philips Lighting Comment Type TR Comment Status D NoPow "When the PD is in POWER_DELAY or POWERED and V PD falls below V Off_PD, the PD transitions to NOPOWER and may show a valid or invalid detection signature, and may or may not draw mark current, draw any class current, and show MPS. When nopower is TRUE interoperability between PSE and PD is no longer guaranteed." Need to be synced with changes to the state diagram done in D3.1. SuggestedRemedy "When the PD is in POWEROFF and V PD falls below V Off_PD min, the PD transitions to NOPOWER and may show a valid or invalid detection signature, and may or may not draw mark current, draw any class current, and show MPS. When nopower is TRUE interoperability between PSE and PD is no longer guaranteed." "When the PD is in POWEROFF and V PD falls below V Off_PD min, the PD transitions to NOPOWER and may show a valid or invalid detection signature, and may or may not draw mark current, draw any class current, and show MPS. When nopower is TRUE interoperability between PSE and PD is no longer guaranteed." Proposed Response Response Status W		Move sentences highlighted with !!! to the paragraph above it.
C/ 145 SC 145.3.8.1 P 208 L 18 # [r02-54] Yseboodt, Lennart Philips Lighting Philips Lighting Comment Type TR Comment Status D NoPower "When the PD is in POWER_DELAY or POWERED and V PD falls below V Off_PD, the PD transitions to NOPOWER and may show a valid or invalid detection signature, and may or may not draw mark current, draw any class current, and show MPS. When nopower is TRUE interoperability between PSE and PD is no longer guaranteed." Need to be synced with changes to the state diagram done in D3.1. SuggestedRemedy "When the PD is in POWEROFF and V PD falls below V Off_PD min, the PD transitions to NOPOWER and may show a valid or invalid detection signature, and may or may not draw mark current, draw any class current, and show MPS. When nopower is TRUE interoperability between PSE and PD is no longer guaranteed." Proposed Response Response Status W		
Yseboodt, Lennart Philips Lighting Comment Type TR Comment Status D NoPown "When the PD is in POWER_DELAY or POWERED and V PD falls below V Off_PD, the PD transitions to NOPOWER and may show a valid or invalid detection signature, and may or may not draw mark current, draw any class current, and show MPS. When nopower is TRUE interoperability between PSE and PD is no longer guaranteed." Need to be synced with changes to the state diagram done in D3.1. SuggestedRemedy "When the PD is in POWEROFF and V PD falls below V Off_PD min, the PD transitions to NOPOWER and may show a valid or invalid detection signature, and may or may not draw mark current, draw any class current, and show MPS. When nopower is TRUE interoperability between PSE and PD is no longer guaranteed." "When the PD is in POWEROFF and V PD falls below V Off_PD min, the PD transitions to NOPOWER and may show a valid or invalid detection signature, and may or may not draw mark current, draw any class current, and show MPS. When nopower is TRUE interoperability between PSE and PD is no longer guaranteed." Proposed Response Response Status W		That sentence is there because the hysteresis that it suggests is to solve startup oscilla
"When the PD is in POWER_DELAY or POWERED and V PD falls below V Off_PD, the PD transitions to NOPOWER and may show a valid or invalid detection signature, and may or may not draw mark current, draw any class current, and show MPS. When nopower is TRUE interoperability between PSE and PD is no longer guaranteed." Need to be synced with changes to the state diagram done in D3.1. <i>SuggestedRemedy</i> "When the PD is in POWEROFF and V PD falls below V Off_PD min, the PD transitions to NOPOWER and may show a valid or invalid detection signature, and may or may not draw mark current, draw any class current, and show MPS. When nopower is TRUE interoperability between PSE and PD is no longer guaranteed." <i>Proposed Response</i> Response Status W		
SuggestedRemedy "When the PD is in POWEROFF and V PD falls below V Off_PD min, the PD transitions to NOPOWER and may show a valid or invalid detection signature, and may or may not draw mark current, draw any class current, and show MPS. When nopower is TRUE interoperability between PSE and PD is no longer guaranteed." Proposed Response Response Status		Comment Type TR Comment Status D No. "When the PD is in POWER_DELAY or POWERED and V PD falls below V Off_PD, the PD transitions to NOPOWER and may show a valid or invalid detection signature, and or may not draw mark current, draw any class current, and show MPS. When nopower
"When the PD is in POWEROFF and V PD falls below V Off_PD min, the PD transitions to NOPOWER and may show a valid or invalid detection signature, and may or may not draw mark current, draw any class current, and show MPS. When nopower is TRUE interoperability between PSE and PD is no longer guaranteed." Proposed Response Response Status W		Need to be synced with changes to the state diagram done in D3.1.
NOPOWER and may show a valid or invalid detection signature, and may or may not draw mark current, draw any class current, and show MPS. When nopower is TRUE interoperability between PSE and PD is no longer guaranteed." Proposed Response Response Status W		SuggestedRemedy
		NOPOWER and may show a valid or invalid detection signature, and may or may not or mark current, draw any class current, and show MPS. When nopower is TRUE
PROPOSED ACCEPT.		Proposed Response Response Status W
		PROPOSED ACCEPT.

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 Pa 208
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 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 Li
 18
 12/19/2017 4:55:38 PM

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 12/19/2017 4:55:38 PM

PD Power

C/ 145	SC 145.3.8.2	P 208	L 25	# r02-104	1
Bennett, k	Ken				

Comment Type T Comment Status D

In table 145-29, the symbol for the parameter "input AVERAGE power" is defined as Pport_PD. Section 145.3.8.4.1, Peak Operating Power Exceptions, uses Pport_PD as an AVERAGE power for computations. (It's also described as an AVERAGE power in section 33.3.7.2.1 of the existing standard.)

The recent addition to 145.3.8.2 changes the Pport_PD definition to instantaneous power. This causes errors in 145.3.8.4.1 and it results in an ambiguity in table 145-29, where the symbol no longer matches the described parameter. The proposed solution changes Pport_PD and Pport_PD-2P back to an average power.

The Existing Text in Draft 3.2 is:

PPort_PD is the power drawn by a single-signature PD, defined in Equation (145-23). PPort_PD-2P is the

power drawn by a given Mode of a dual-signature PD, defined in Equation (145-24). Pport PD = VPD*lport (145-23)

 $Pport^{-}PD-2P = VPD^{*}lport-2P$ (145-24)

For single-signature PDs, the AVERAGE value of PPort_PD shall not exceed PClass_PD for the assigned class. For

a dual-signature PD, the AVERAGE value of PPort_PD-2P shall not exceed PClass_PD-2P for the assigned class.

SuggestedRemedy

Move the word "average" in lines 32 and 33 to lines 25 and 26, and modify the equations to represent the following:

PPort_PD is the AVERAGE power drawn by a single-signature PD, defined in Equation (145-23). PPort_PD-2P is the AVERAGE power drawn by a given Mode of a dual-signature PD, defined in Equation (145-24).

For single-signature PDs, the value of PPort_PD shall not exceed PClass_PD for the assigned class. For a dual-signature PD, the value of PPort_PD-2P shall not exceed PClass_PD-2P for the assigned class.

OPTION 1: Remove the equations:

PPort_PD is the AVERAGE power drawn by a single-signature PD. PPort_PD-2P is the AVERAGE power drawn by a given Mode of a dual-signature PD. For single-signature PDs, the value of PPort_PD shall not exceed PClass_PD for the assigned class. For a dual-signature PD, the value of PPort_PD-2P shall not exceed PClass_PD-2P for the assigned class.

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

Proposed TFTD	Proposed Response Response S TFTD		W		
C/ 145	SC 145.3.8.2	P 20	08 L 3	5 #	r <u>02-55</u>
Vcoboodt	Lopport	Dhilip	a Lighting		

Yseboodt, Lennart Philips Lighting

Autoclass

"The PD shall not draw more power than P Autoclass_PD , unless the PD successfully negotiates a higher power level, up to the PD requested Class, through Data Link Layer classification as defined in 145.5."

Comment Status D

Only applies if the PD has either performed L1 Autoclass, or it has requested Autoclass through DLL.

SuggestedRemedy

Comment Type TR

"A PD that has enabled Autoclass during Physical Layer classification or has requested Autoclass through DLL, shall not draw more power than P Autoclass_PD, unless the PD successfully negotiates a different power level, up to the PD requested Class, through Data Link Layer classification as defined in 145.5."

Proposed Response	Response Status	w
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PROPOSED ACCEPT.

C/ 145	SC 145.3.8.2	P 208	L 45	# r02-56
Yseboodt,	Lennart	Philips Lighting		
Comment	Туре Е	Comment Status D		Editorial
Variab	le "PAutoclass_PD	" is written without subscript.		

SuggestedRemedy

Change to correct subscript.

Proposed Response Response Status W PROPOSED ACCEPT.

> Pa **208** Li **45**

C/ 145 SC 145.3.8.3 P 209 L 34 # r02-115 Darshan, Yair	C/ 145 SC 145.3.8.3 P 210 L 32 # r02-116 Darshan, Yair
Comment Type T Comment Status D Inrush	Comment Type T Comment Status D PD Pow
In the text "A PSE limits the inrush current to IInrush and IInrush-2P, defined in Table 145- 16, which is sufficient current to charge CPort or CPort-2P to VPort_PSE-2P when: CPort < 180 uF for single-signature PDs assigned to Class 1 through 6" , missing important piece of information that it is done within Tinrush which is the main point of this text.	There is an error in the text "A dual-signature PD can also be implemented with a single load, resulting in a lower than Cx + Cy capacitance value as seen by the PSE.". The value in this case generally will be lower than Cx+Cy but in this particular case of a single load it will be Cx. SuggestedRemedy
SuggestedRemedy	Change from:
Change to: In the text "A PSE limits the inrush current to IInrush and IInrush-2P, defined in Table 145- 16, which is sufficient current to charge CPort or CPort-2P to VPort_PSE-2P within TInrush_PD max when:	"A dual-signature PD can also be implemented with a single load, resulting in a lower than Cx + Cy capacitance value as seen by the PSE." To: "A dual-signature PD can also be implemented with a single load, resulting in Cx capacitance value as seen by the PSE."
CPort < 180 uF for single-signature PDs assigned to Class 1 through 6	Proposed Response Response Status W
Proposed Response Response Status W	PROPOSED REJECT.
PROPOSED ACCEPT IN PRINCIPLE. OBE by 69	As there is no picture to go with the single load, DS case, the suggested remedy would ad confusion. What is in the current note is correct given that we don't show what the single load cap is called.
C/ 145 SC 145.3.8.3 P209 L 34 # r02-69	C/ 145 SC 145.3.8.4 P211 L1 # r02-57
Peker, Arkadiy Microsemi Corporation	Yseboodt, Lennart Philips Lighting
Comment Type TR Comment Status D Inrush	Comment Type T Comment Status D PD Pow
The objective of the following text is missing (charging within Tinrush) "A PSE limits the inrush current to IInrush and IInrush-2P, defined in Table 145-16, which is sufficient current to charge CPort or CPort-2P to VPort_PSE-2P when"	"These equations may be used to calculate P Peak_PD or P Peak_PD-2P after Data Link Layer classification and for Autoclass by substituting PDMaxPowerValue with P Autoclass_PD ."
SuggestedRemedy	The equations below any "for Class y", but that needs to be perigned Class. It depents fit is
Change from:	The equations below say "for Class x", but that needs to be assigned Class. It doesn't fit in the equation, so suggest to add it to the quoted sentence.
"A PSE limits the inrush current to IInrush and IInrush-2P, defined in Table 145-16, which is sufficient current to charge CPort or CPort-2P to VPort_PSE-2P"	SuggestedRemedy
To: "A PSE limits the inrush current to IInrush and IInrush-2P, defined in Table 145-16, which is sufficient current to charge CPort or CPort-2P to VPort_PSE-2P within TInrush_PD max when"	Replace by: "These equations may be used to calculate P Peak_PD or P Peak_PD-2P for Data Link Layer classification and for Autoclass by substituting PDMaxPowerValue with P Autoclass_PD.
Proposed Response Response Status W	The Class referred to in Equation (145-25) and Equation (145-26) are the assigned Class."
PROPOSED ACCEPT.	Proposed Response Response Status W PROPOSED ACCEPT.
TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open V	5

SORT ORDER: Page, Line

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Cl 145 SC 145.3.8.4 Yseboodt, Lennart	P 211 Philips Lighting	L 4	# r02-58	C/ 145 SC 14 Yseboodt, Lennart	5.3.8.6	P 212 Philips Lightir	L 22	# r02-61
Comment Type TR	Comment Status D		PD Power	Comment Type E	: Co	mment Status D	ig	Editoria
Equations 145-25 and 14	45-26 result in PDMaxPower\ wer in 1/10th of a Watt) multi		s an integer	Sentence: "The	TR1, TR2, ar 2), driven fro			ce, with a current limit
This results in PPeak_PI SuggestedRemedy Divide every constant by So constants 1.29 1.11 1 For both equations. Proposed Response	0 0	05.			from the 'ini <i>R</i> es	ts consists of a voltage tial voltage' to the 'fina sponse Status W		
PROPOSED ACCEPT.	P211	L 4	# r02-59	C/ 145 SC 14 Darshan, Yair	5.3.8.4	P 212	L 23	# r02-118
Yseboodt, Lennart	Philips Lighting		# [02-59	Comment Type E	Co	mment Status D		Editoria
after Data Link Layer cla with PAutoclass_PD." is A PowerValue cannot be SuggestedRemedy Change to "These equat Data Link Layer classific corresponding value	e mixed with a Power level ions may be used to calculat ation and for Autoclass by su e of PAutoclass_PD."	by substitutin e P Peak_PD	g PDMaxPowerValue	in need to be "at SuggestedRemedy Change from: "The TR1, TR2, and TR2), driven To: "The TR1, TR2, a	the ^w . and TR3 tes from the 'ini and TR3 test	'final voltage' a the 'so its consists of a voltage tial voltage' to the 'fina its consists of a voltage tial voltage' to the 'fina	e source, with a I voltage' a the 's e source, with a c	current limit (for TR1 source dv/dt' rate" current limit (for TR1
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Response PROPOSED AC	Res	sponse Status W	i voltage at the	
C/ 145 SC 145.3.8.6 Yseboodt, Lennart	P 212 Philips Lighting	L 14	# r02-60	OBE by 61		INCIPLE.		
Comment Type E Table 145-30, column "S	Comment Status D cource dv/dt" has unfortunate	line break in	<i>Editorial</i> the last row.					
SuggestedRemedy Fix.								
Proposed Response	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: Page, Line Pa **212** Li **23** Page 32 of 37 12/19/2017 4:55:38 PM

C/ 145 SC 145.3.8.9 Yseboodt, Lennart	P213 Philips Lighting	L 8	# r02-62	C/ 145 Yseboodt, Ler	SC 145.3.9 nnart	P 215 Philips Lighting	L 31	#	r02-64
Comment Type E Comment In table 145-31 in row lunbalance_pe "a". SuggestedRemedy Add note "a" to this field. Proposed Response Response \$	eak-2P the assign	ned class 1 to	<i>Editorial</i> o 4 also needs the note	8 when ps than 255. We need	signature PD se_assigned_ " to weave in a	Comment Status X shall use the I Port_MPS valu class is 5, 6, 7, or 8, or when I n exception for when PDRequ ssigned Class is leading.	PDRequested	dPowerVa	lue is greater
PROPOSED ACCEPT. C/ 145 SC 145.3.8.9 Yseboodt, Lennart	P213 Philips Lighting	L 44	# [r02-63	"A single- 8 when ps	is follows: signature PD se_assigned_	shall use the I Port_MPS valu class is 5, 6, 7, or 8, or when I			
Comment Type TR Comment "Single-signature PDs shall not exceed 5 % duty cycle, and shall not exceed any pair when PD PI pairs of the sam V Port_PSE-2P min + 0.31 V to V Por resistances, R source_min and R sou in Figure 145-30." "when PD PI pairs of the same pol does not make sense. "when PD PI pairs of the same pol does not make sense.	ed I Unbalance_ I Unbalance_pe ne polarity are co ort_PSE-2P max urce_max, as de larity are connec	ak-2P , as de nnected to a through two o fined in Equa ted to any vo	fined in Table 145-31 on ny voltage in the range of common mode ttion (145-28) and shown Itage in the range of"		sponse	to UXACAC." ugly any better way to spec <i>Response Status</i> W	ify this ?		

We really want to indicate the PD is to be connected in 4-pair mode, with two positive pairs and two negative pairs.

Fortunately, we have a Table that lists all of those options!

SuggestedRemedy

"Single-signature PDs shall not exceed I Unbalance_PD-2P for longer than T CUT min and 5 % duty cycle, and shall not exceed I Unbalance_peak-2P, as defined in Table 145-31 on any pair when the PD is connected per any valid 4-pair configuration, as defined in Table 145-20, to any voltage in the range of V Port_PSE-2P min + 0.31 V to V Port_PSE-2P max through two common mode resistances, R source_min and R source_max, as defined in Equation (145-28) and shown in Figure 145-30."

Same change for dual.

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: Page, Line

Pa **215** Li **31**

C/ 145	SC 145.3.9	P 215	L 44	# r02-84		C/ 145	SC 14	5.3.9	P 215	L 44	#	r02-65	
Abramson, David Texas Instruments Inc					Yseboodt, Lennart		Philips Lighting						
Comment 7	Type TR	Comment Status D			MPS	Comment	Туре 1	ſR	Comment Status D				М
Туре 3		the PD MPS requirements int s to draw more power (than T			vpe				MPS_PD requirement with a secoble resistance between t				
cable ir	mpedance and I	ms for Tmps_pd number alre	mit was 60ms.	For Type 3 and 4, w			0		requirement that only applies a to imply the measurement m	0 1	`	,	
		m 15ms to 1ms, but required here (meaning that the PD de				Suggested	Remedy						
the cap into a s	o and impedance single sentence	e). However, the sentences (when all the numbers were m ement on top of the 15ms mar	which were sep oved to a table	parate) got combined , adding the			shall mee		MPS_PD requirement with a s he PD PI and the source."	series resistar	nce in the ra	ange of ()
		sure Tmpdo_pd is met with th	0			Proposed I PROP			Response Status W IN PRINCIPLE.				
Suggested	Remedy												
		neet the TMPS_PD requirement				OBE b	y 84						
which r PD PI.'	•	vorst case cable resistance be	etween the mea	asurement point and	the	C/ 145	SC 14	5.4.1	P 217	L 26	#	r02-95	
						Maytum, M	lichael		RETIRED				
T "A	DD als all as a still	THE THE PO THE THE PO	D	e in Arte la service e este e		-							

To: "A PD shall meet the TMPS_PD and TMPDO_PD requirements with any series resistance between 0 Ohms and RCh between the PD PI and the source when long_class_event = TRUE."

Proposed Response Response Status W

PROPOSED ACCEPT.

TFTD

Note: I know that this makes it sound like these requirements don't exist if Ice=false, but they are covered by the shall on line 21 combined with the shall on line 26. I would welcome better text that clarifies this.

SuggestedRemedy Replace item "c" of 145.4.1 (1.5 kV, 10/700) with item "c" of 126.5.1 (2.4 kV, 1.2/50)

Comment Type

Proposed Response Response Status W

TR

PROPOSED REJECT.

(1) Since a PI and BASE-T MDI are the same in the vast majority of cases it wouldn't make sense to just change the PI isolation requirements without changing the BASE-T isolation requirements at the same time, in fact not doing this at the same time could result in conflicting requirements.

"c) An impulse test consisting of a 1500 V, 10/700 micros waveform, applied 10 times, with a 60 s interval between pulses." This is technically incorrect for two reasons: The peak

voltage is way to low and it is applicable to long distance telephone lines. The 1.5 kV

10/700 was the result of an ITU-T global study on telephone lines. As the lightning surge propagates down the line dispersion increases the front time and time to half value.

together with lowering the peak voltage. An Ethernet cable is nothing like a long distance

Comment Status D

telephone line. Hence the more appropriate waveshape is 1.2/50.

MPS

Isolation

(2) There is already an Isolation Ad Hoc working on this issue that is chartered to consider the isolation subclauses throughout IEEE 802.3. It is therefore better to let this conclude its work and address this issues holistically, including Clause 145.

(3) Any change to this text needs to ensure that existing implementation remain conformant.(4) This comment is out of scope as it is on unchanged text.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	Pa 217	Page 34 of 37
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	Li 26	12/19/2017 4:55:38 PM
SORT ORDER: Page, Line		

Cl 145 SC 145.4.1 P 217 L 39 # [r02-70] Peker, Arkadiy Microsemi Corporation Microsemi Corporation # [r02-70] # [r02-70] <td< th=""><th>C/ 145 SC 145.4.1 P 217 L 39 # r02-119 Darshan, Yair</th></td<>	C/ 145 SC 145.4.1 P 217 L 39 # r02-119 Darshan, Yair
Comment Type TR Comment Status X Isolation The requirement in "Dual-signature PDs shall have less than or equal to 10 uA of current between any one conductor of Mode A and any one conductor of Mode B when VPD, as defined in 145.1.3, of either Mode is less than VOff_PD min, as defined in Table 145-29. See Table 79-6f." is impossible to meet due to the following reasons: There are diodes between some of the pins that are low impedance. It should be isolated between pairs of the same polarity that the PSE is required to support only i.e. the requirement should be the minimum requirement to keep interoperability. SuggestedRemedy Change from: "Dual-signature PDs shall have less than or equal to 10 uA of current between any one conductor of Mode A and any one conductor of Mode B when VPD, as defined in 145.1.3, of either Mode is less than VOff_PD min, as defined in Table 145-29. See Table 79-6f." To: "Dual-signature PDs shall have less than or equal to 10 uA of current between any one conductor of Mode A and any one conductor of Mode B when VPD, as defined in 145.1.3, of either Mode is less than or equal to 10 uA of current between any negative pairs when VPD, as defined in 145.1.3, of either Mode is less than VOff_PD min, as defined in Table 145-29. See Table 79-6f." Proposed Response Response Status W TFTD	Comment TypeTComment StatusXPres: Darshan2There are few errors in the text "Dual-signature PDs shall have less than or equal to 10 uA of current between any one conductor of Mode A and any one conductor of Mode B when VPD, as defined in 145.1.3, of either Mode is less than VOff_PD min, as defined in Table 145-29. See Table 79-6f.".a) we can't ask for 10uA leakage current between any one conductor of Mode A and any
1) I can't come up with a Mode A to Mode B (or vice versa) connection that is low impedance. There is always at least one reversed bias diode in the path.	SuggestedRemedy Adopt darshan_02_0118.pdf
2) In the suggested remedy, you add "on the negative pairs", but there is no requirement on the PSE to measure current on the negative pairs. The only requirement that I am aware of is for PSEs to control the inrush current on the negative pairs.	Proposed Response Response Status W TFTD WFP

Pa **217** Li **39**

C/ 145 SC 145.4. Yseboodt, Lennart	9.4.1 P 229 Philips Ligi	L 50	# r02-66	<i>Cl</i> 145 Jones, Ch	SC 145.5.2	P 230 Cisco Sys	L 40	# r02-22
Comment Type T	Comment Status D	lang	AES	Comment		Comment Status D	aomo, mo.	Editorial
"Calculations that re requirement of 67 dl	sult in PSANEXT loss values		B shall revert to a	DLL fi L40: " L42: " L45: "		' 'Name' field. 4 errors to t wer value" field wer value" field wer value" field	this convention in 1	
Replace Equation (1	45-36) as follows:			Suggestee	dRemedy			
	n(67, 70.5 - 20 * log10(f/100) ext.)		L40: ' L42: ' L45: '	e all to single quo PSE allocated pov PD requested pov PD requested pov PD requested pov	wer value' field ver value' field ver value' field		
PROPOSED ACCE	Response Status W			•	Response POSED ACCEPT.	Response Status W		
Cl 145 SC 145.4. Mcclellan, Brett Comment Type E		L 4 miconductor	# <u>r02-92</u> Editorial	<i>Cl</i> 145 Jones, Ch	SC 145.5.3.2		L 50 tems, Inc.	# r02-23
SuggestedRemedy	o Equation (145-36) in this p 45-36)" to "Equation (145-37 <i>Response Status</i> W	0		p231, p232, P241,		ces missing the quotes:		
		10	# 00.07	Suggestee	-	ad field names as is the s	anvention	
C/ 145 SC 145.4. Yseboodt, Lennart	9.4.2 P 230 Philips Ligl	L 9	# r02-67		Response	nd field names as is the c	onvention.	
Comment Type T	Comment Status D sult in PSAFEXT loss values		AES B shall revert to a	•	POSED ACCEPT.	Response Status W		
	separate shall by incorporati	ng this into the equ	lation.					
SuggestedRemedy Replace Equation (1	45-37) as follows:							
PSAFEXT loss - mir	a(67, 67 - 20 * log10(f/100))							
and delete quoted te	ext.							
Proposed Response PROPOSED ACCE	Response Status W							
	ired ER/editorial required G dispatched A/accepted R/r				d U/unsatisfied Z		231 50	Page 36 of 37 12/19/2017 4:55:3

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SORT ORDER: Page, Line

<i>Cl</i> 145 <i>SC</i> 145.5.3.2.2 <i>P</i> 231 <i>L</i> 52 # <u>r02-117</u> Darshan, Yair	C/ 145C SC 145C.1 P 295 L 24 # [Jones, Chad Cisco Systems, Inc. Cisco Systems, Inc. [</td <td>r02-17</td>	r02-17
Comment Type E Comment Status X Pres: Yseboodt2	Comment Type E Comment Status D	Editorial
The link to MirroredPDAutoclassRequest is Table 145-39 and not Table 145-38	move 'IL =0.6A up some so that it doesn't encroach the arrow. Same for page 296 line 4	
SuggestedRemedy	SuggestedRemedy	
Change from Table 145-38 to Table 145-39	make the change as commented	
Proposed Response Response Status W TFTD	Proposed Response Response Status W	
	PROPOSED ACCEPT.	
WFP	C/ 145C SC 145C.2 P 297 L 34 #	r02-19
Note that this parameter comes from the PSE SD and thus should be in Table 145-38	Jones, Chad Cisco Systems, Inc.	102-19
C/ 145 SC 145.5.3.2.5 P239 L 14 # r02-68	Comment Type E Comment Status D	Editorial
Yseboodt, Lennart Philips Lighting	missing space: along with other worstcase elements	
Comment Type E Comment Status D Editorial	SuggestedRemedy	
Need Wider INITIALIZE block, same width as IDLE, to have statements on one line.	change to: along with other worst case elements	
SuggestedRemedy	Proposed Response Response Status W	
Change width of INITIALIZE block. Also on page 240	PROPOSED ACCEPT.	
Proposed Response Response Status W	C/ 145C SC 145C.3 P298 L3 #	r02-18
PROPOSED ACCEPT.	Jones, Chad Cisco Systems, Inc.	
C/ 145C SC 145C P295 L11 # r02-120	Comment Type ER Comment Status D	Editorial
Darshan, Yair	contents of the column were converted to A but the heading was left mA.	
Comment Type T Comment Status D Annex	SuggestedRemedy	
It will be advantageous to mention that the current calculations done at 100% balanced	Change heading of third column of Table 145C-1 from 'Icond (mA)' to 'Icond (A	\) '
system while in actual system the unbalance as specified by 145.2.8.1 and 145.3.8.9, reduces the current resulting with lower cable power dissipation .	Proposed Response Response Status W	
SuggestedRemedy	PROPOSED ACCEPT.	
Add the following text after line 11 page 295: "The following models and calculations are derived for 100% balanced system (zero unbalance) while in all systems the actual resistance unbalance is greater than zero as specified by 145.2.8.1 and 145.3.8.9 which reduces the current and resulting with lower cable power dissipation."		
Proposed Response Response Status W		
PROPOSED REJECT.		
This Annex is meant to simplify the reader's understanding. The difference in power loss due to unbalance is negligible enough that it does not warrant putting this note into the draft.		
TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/g COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/wr SORT ORDER: Page, Line		age 37 of 37 2/19/2017 4:55:3

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