					•				
C/ 145 SC 145.	<b>2.5</b> P	L	# I-12	C/ 0	SC 0		Р	L	# 1-20
Ran, Adee	Intel Corpo	oration		Sanchez	Reategui, Hugo	Ricardo	CONSULTA	NT	
Comment Type T	Comment Status A			Commen	t Type <b>T</b>	Commen	nt Status R		
	ariables in the original amendr have the suffix (X), but it is unc			this.	-				ard to add a little bit on t of my role and for mo
	h discusses PDs) there is a cle but there is nothing similar fo			of the XXXX	e solutions our P	&C group reco	ommends		r communication via
SuggestedRemedy					AX of 1.8GHz ba	nawiath.			
	similar to 145.3.3.4 to describe be done for several variables in			Suggeste	edRemedy				
				Respons	e	Response	e Status C		
Response	Response Status C			REJE	ECT.				
ACCEPT IN PRIN	CIPLE.			Than	k you for comple	menting the d	locument As th	e comment neith	her identifies an issue,
Add following text	(with proper formatting) to the	draft:		nor p		sed change, fr	om a process p	erspective we ar	re rejecting it. For furthe
the letter of the Al	ative designation ation is obtained by replacing t ternative of interest. The Alterr			<http stand</http 	s://standards.iee lards/standards/ _standards.pdf>	e.org/content/	/dam/ieee-		
	e designator. When X is used		, its value is local to that	C/ 79	SC 79.3.2		P <b>23</b>	L <b>6</b>	# I-14
state diagram and Values:	not global to the set of state of	diagrams.		Rolfe, Be	njamin		Blind Creek A	Associates	
A: Alternative A				Commen	t Type E	Commen	nt Status A		
B: Alternative B					ng instruction is i Id be "change la			etion) is shown t	he editing instruction
NoteThe variable	es alt_pri and alt_sec map Alte	ernatives to Primary	y and Secondary.	Suaaeste	edRemedy				
					ige "Delete" to "(	Change".			
				Respons	-	-	e Status C		
				-	EPT IN PRINCIF				
					nge editing instru 3bt-2018."	ction to "Delet	te last paragrapl	h of 79.3.2, as ir	nserted by IEEE Std
				Rem	ove text on lines	8-14 of page	23.		

Pa **23** Li **6** 

C/ 79 SC 79.3.2 P23 L25 # I-16 C/ 79 SC 79.3.2 P23 L26 # 1-2 Zimmerman, George CME Consulting, Analog Devices Inc., Cisco Systems, Ran, Adee Intel Corporation Comment Type E Comment Status A Comment Type E Comment Status A Note should be in NOTE style (frame style, and Note should be "NOTE <em-dash>" "have greater than 12 octets" is awkward language. SuggestedRemedy SuggestedRemedy Change to "have more than 12 octets" or "are longer than 12 octets". Change "Note: " and text on lines 25-29 to frame NOTE- style. Response Response Response Status C Response Status C ACCEPT. ACCEPT IN PRINCIPLE. C/ 79 SC 79.3.2 P23 L25 # I-1 Change to "are longer than 12 octets". Intel Corporation Ran. Adee C/ 79 SC 79.3.2 P23 L27 # I-3 Comment Type E Comment Status A Ran. Adee Intel Corporation informative note should start with "NOTE" and em dash. See section 10.1 in the style Comment Type Е Comment Status A manual. In "12 octet TLVs" and "one valid 29 octet TLV", n-octet is a compound adjective, so a SuggestedRemedy hyphen is required. Change "Note:" to "NOTE--" (em dash). Also in many cells of Table 79-1a. Response Response Status C ACCEPT. Proposed change is adding hyphens everywhere, but alternatively the table may be changed to have "number of octets in the TLV" as a column heading, and keep only SC 79.3.2 P23 L25 # I-15 C/ 79 numbers in the cells. SugaestedRemedv Rolfe, Benjamin Blind Creek Associates Comment Type E Comment Status A Change "12 octet" to "12-octet", and "29 octet" to "29-octet" in the text. The editing instruction is "insert" so we expect all the text that follows is new. Why are Change cells in Table 79-1a similarly. there change bars shown for the Note, table and paragraph following the table? As this is the initial ballot, the presence of change bars is confusing. Response Response Status C ACCEPT. SuggestedRemedy Remove extraneous change bars. Response Response Status C ACCEPT.

IEEE 802.3cv D3.0 4-Pair PoE Maintenance Initial Sponsor ballot comments

Pa **23** Li **27** 



The comment resolution group believes that the proposed remedy makes a subtle technical change. As such, we have made changes to make the sentence easier to understand:

Change "shall not apply a voltage greater than Voff to the PI for at least Tdbo as defined in Table 145-16 before attempting another detection"

To: "shall not apply a voltage greater than Voff to the PI until after at least Tdbo, as defined in Table 145-16, has passed before attempting another detection'

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C/ 145	SC 145.2.5.7	P30	L1	#	I-13

Jones, Chad

Comment Type TR Comment Status A

\*\*\* Comment submitted with the file cjones\_D3p0comment.pdf attached \*\*\*

NOTE: this comment is against State Diagrams that aren't in the D3.0 document. Looking at the published standard, this comment is against Figure 145-15 on document page 144, 145 and Figure 145-16 on document page 148, 149.

Cisco Systems, Inc.

### Start of comment:

The single signature PSE state diagram (Figure 145-13) on page 139 allows the path from CLASSIFICATION to CLASS\_PROBE to CLASS\_RESET and to CLASS\_EV1\_LCE. This path allows a PSE to perform a class probe, perform a class reset and then immediately perform multi-event classification (without having to perform detection/CC). Moving to the dual signature PSE state diagrams (we will talk only about the PRI diagram 145-15 since the SEC diagram is identical), at the top of page 144 we see the path is CLASSIFICATION\_PRI to CLASS\_PROBE\_PRI. contrasting the SS SD, there are two paths out of CLASS\_PROBE\_PRI, and either allows the PSE to perform a class reset and them move to multi-event classification. One arc travels to CLASS\_RESET\_PRI, to CLASS\_EV1\_LCE\_4PID\_PRI, then to MARK\_EV\_LAST\_PRI. Only one event is allowed in this case. If the PSE needs to perform multi-event classification, it must use the other arc back to IDLE\_PRI which requires a new detection and CC. There is no technical justification to force the two PSEs 'flavors' to behave differently in this case. My comment will modify the dual signature state diagrams to allow multi-event classification immediately after a class probe.

### SuggestedRemedy

See the attachment, where the changes are marked up.

the modification is shown against Figure 145-15, the same change will need made to Figure 145-16.

textual explanation:

pg 144

delete the IDLE\_PRI arc from CLASS\_PROBE\_PRI.

delete "\* (pse\_avail\_pwr\_pri < 4)" from the arc to CLASS\_RESET\_PRI. [the only arc from CLASS\_PROBE\_PRI is to CLASS\_RESET\_PRI]

add an empty label arc into CLASS EV1 LCE PRI.

pg 145

add \*\* (pse\_avail\_pwr\_pri < 4)" to the arc from CLASS\_RESET\_PRI to CLASS\_EV1\_LCE\_4PID\_PRI

add a new arc out to CLASS\_RESET\_PRI to CLASS\_EV1\_LCE\_PRI with the exit condition: "tclass\_reset\_timer\_pri\_done \* (pse\_avail\_pwr\_pri  $\geq$  4)" perform same changes to Figure 145-16 on page 148, 149.

#### Response

Response Status C

ACCEPT IN PRINCIPLE.

Adopt changes shown in https://www.ieee802.org/3/cv/public/jan21/darshan\_comment\_l-13\_01.pdf to Figure 145-15 and Figure 145-16 (and associated variables) with the following changes:

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

1. Rename "LCE\_after\_class\_probe\_flag" variable to "option\_MEC\_after\_probe" and add to variable list in 145.2.5.4 after "option\_detect\_ted\_sec".

2. use these definitions for the variable:

This variable indicates if multiple-event classification is allowed after a class probe in the dual-signature state diagrams.

TRUE = Allow multiple-event classification after class probe.

FALSE = Only allow single-event classification after class probe.

3. Add "option\_MEC\_after\_probe" after "option\_detect\_ted\_sec" in the variable list under do\_initialize on page 136 of the 802.3bt admendment.

Editorial license granted for formatting and editing instructions.

C/ 145	SC 1	45.2.5.7	P <b>30</b>	L <b>32</b>	# <u>I-5</u>
Ran, Adee			Intel Corporat	tion	
Comment	Туре	E Co	omment Status A		
	0	nt symbol in M table is replace		is underlined. It	suggests an insertion,
Suggested	Remedy	V			
Remo	ve the u	nderline.			
Response		Res	sponse Status <b>C</b>		
ACCE	PT.				
C/ 145	SC 1	45.3.3.3.2	P <b>32</b>	L <b>43</b>	# I-6
Ran, Adee			Intel Corporat	tion	
Comment	Туре	E Co	omment Status A		
			s funny. A PD is an ina ot use "want" either.	nimate object an	d doesn't have a will.
Suggested	Remed	V			
Chang	e "the P	D wants to abo	ort" to "the PD is about	to abort", or pos	sibly "the PD aborts"
Response		Res	sponse Status <b>C</b>		
ACCE	PT IN P	RINCIPLE.	,		
Chang	e "the P	D wants to abo	ort" to "the PD is aborti	ng"	

Pa	32	
Li	43	

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C/ 145	SC 145.3.3.4.	5	P <b>35</b>	L18	#	I-7	C/ 145	SC 145.	3.8.2	P <b>36</b>	L16	# I-8
Ran, Adee			Intel Corporat	tion			Ran, Adee			Intel Corpora	ation	
Comment T	Туре Е	Comment	Status A				Comment	Туре Т	Co	omment Status A		
state, b	ns that the only c but it is not easy t e, as done in othe	to locate. It w						serted text o R with no "p			lly ambiguous bed	cause it has both AND
If there	e are other chang	es they shou	Ild also be inclu	ded.			highe		1 power du	0 1		on and drew a power D1 and TAUTO_PD2 o
Similar	rly in Figure 145-	42.										
Suggested	lRemedy								•	at has either enabled <i>i</i> ss during DLL"	Autoclass during	classification and drew
	e the editorial ins follows:"	struction to "C	Change the text	inside state POV	VERED	in Figure 145-	Suggestee	•				
Apply s	similar change in	Figure 145-4	12.							what by adding the wo nment) if my interpreta		hat has" and a comma
Response ACCEF	PT IN PRINCIPLI	Response E.	Status C				lf I go Response	0		should be placed afte	er the "and".	
	e editorial instruc ge Figure 145-27				/FRFD	state)."	ACCE	PT IN PRIN				
Chang	ge i igulo 140 21	(continuou)	ac 101000 (300	onangeo in r OM		010107.	Chang	e to:				
	e editorial instruc						·					
"Chang state):"	ge Figure 145-42 "	as follows (s	see changes in l	left exit from PSE	E_POW	ER_REVIEW	power	higher than	Class 1 po	d Autoclass during Ph ower during the perioc ted Autoclass through	bounded by TAL	

Pa **36** Li **16** 

145 SC 14	.5.3.2.2	P <b>37</b>	L <b>7</b>	# 1-9		C/ 145	SC 145.5.3.	2.2	P <b>37</b>	L18	#	I-11
n, Adee		Intel Corporat	tion			Ran, Adee			Intel Corpora	tion		
mment Type <b>T</b>	Com	ment Status A				Comment 7	уре Т	Comment	Status R			
table in the text.	t's not typical t	cal expression as the to have such logical ult to understand, as	expressions ou	tside of state of			iable pse_initi variables.	al_value_alt(X)	suggests that	it is a function (	based on	input X) or
			·			Is X on	e of the alterna	atives A or B? o	r is it "pri"/"alt"	?		
It may help the r	ader if the cor	ndition is simply spel	led out.			Also th	e "values" tab	le has one colu	mn which lists	values for two	ariables	lt is unclear
The comment al	o applies to po	d_initial_value on pa	ge 40.			) -	ne should be				anabics.	
ggestedRemedy						le thie '	variable" actur	ally a function?				
		fter "This variable is				Suggested		any a function:				
		d_autoclass_cancel 204). Otherwise, it is				00		cate how both y	ariahlas affact	the single value	of the v	ariahla
follows:"			Set according t		.u_pwi, as		tial_value_alt()			the single value		
Delete the first "	olumn" and the	e last "row" in the tal	ble following "Va	alues:".		If neces	ssary, change	the definition to	a function and	d move it to the	"function	s" subclause.
Apply correspon	ling changes to	o pd_initial_value.				Response		Response \$	Status C			
sponse	0 0	onse Status <b>C</b>				REJEC	Т.					
ACCEPT IN PRI						The CF	G disagrees v	vith the comme	nter. The uncl	hanged text corr	mented	on was part o
						subclau	ise carefully cr	rafted during the	e P802.3bt pro	ject and the pro	posed ch	anges would
Remove first col	imn of values t	table.								the subclause. a cross referen		
Change last entr	of pse_alloca	ted_pwr column to "	'Autoclass*".					proposed by th				
	ncelled is FAL	at says "*If pd_autoc SE, then pse_initial_			CAC	P802.3	cv draft and no	ot looking back	at the whole st	reading the text tandard. The me on directly prece	eaning of	alt(X) can be
Change last valu	e of pse_initial	_value to "44204".										
Editorial license	granted to fit so	olution to IEEE stand	dard style and fo	ormatting.								
Make similar cha	nges to "pd_in	itial_value" on page	40, line 8.									
	-											

Pa **37** Li **18** 

C/ 145	SC 145.5.3.2.2	2 P <b>37</b>	L <b>20</b>	# I-10
Ran, Ade	e	Intel Corpora	tion	
Comment	t Type <b>T</b>	Comment Status A		
		ated_pwr_pri and pse_alloc E state diagrams"	cated_pwr_sec v	variables (145.2.5.6),
	ich" refers to pse_a h are used"?	allocated_pwr_pri and pse_	_allocated_pwr_s	sec, shouldn't it be
that is	s used (e.g. in Figu	riables in any state diagram re 145-42)? if so, the parag SE state diagrams".		
Point	ing to specific diag	rams would be preferable.		
Suggeste	dRemedy			
Base	d on the answers to	o the question in the comm	ent, update the	text accordingly.
Cons	ider pointing to the	specific diagrams which th	e reader should	refer to.
Response	9	Response Status C		
ACCI	EPT IN PRINCIPLE	<u>.</u>		
Chan	ge "which is used"	to "which are used".		
		ed on are used in the refere se_allocated_pwr_pri/sec f		e diagrams through the
C/ 145	SC 145.5.3.2.	5 P <b>39</b>	L <b>2</b>	# <mark>I</mark> -19
Zimmerm	an, George	CME Consult	ting,Analog Dev	ices Inc.,Cisco Systems,
<u></u>	t Tvpe E	Comment Status A		
Comment	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Font style	size in the figure is manual for figures	6 point. this is very hard to is 8 point (as are the other ore, even though there is pla	state diagrams	in the draft). Somehow
Font style this e	size in the figure is manual for figures	is 8 point (as are the other	state diagrams	in the draft). Somehow
Font style this e Suggeste	size in the figure is manual for figures scaped notice befo dRemedy	is 8 point (as are the other	state diagrams	in the draft). Somehow

Pa **39** Li **2**