C/ 00 SC 0	Р	L	# 23	C/ 00	SC O		P1	L 1	# 147
Anslow, Pete	Ciena			Healey, A	dam		Broadcom Lt	d.	
negotiation" but there a	Comment Status D /3/WG_tools/editorial/require re instances of "autonegoti	ements/words.h ation" in:	<i>bucket</i> tml has "auto-		comment is sul	bmitted on be	ent Status <b>D</b> half of Michelle Tr		Editor, IEEE-SA. Please note "shall"
30.3.3.6 (2 instances) 30.7.1 45.2.7.16				shoul neces	d not be used i ssary. I have al	in informative so highlighted	notes. Please co d the areas when	nsider changing t must is used. Ty	the verb to when pically "must" states a
SuggestedRemedy Change all instances of	"autonegotiation" to "Auto	Negotiation"		public Pleas	cation prep. Wi	th that being s ances below. I		nt to do that sinc a few recommen	t" to shall during e it is in a NOTE. idations as an example.
Proposed Response	Response Status W			I tried	I to avoid chan	ging the verb	to "should" or "ma	ау."	
PROPOSED ACCEPT.				List o	f instances and	d recommend	ations are include	d in an attachme	ent.
C/ 00 SC 0	Р	L	# 24	Suggeste	dRemedy				
Anslow, Pete	Ciena			Modif	fy notes to rem	ove the use o	f "must" or "shall"	as appropriate.	
Comment Type E	Comment Status D		bucket	Proposed	l Response	Respon	se Status W		
Gray-mapped, Gray ma name comes from Fran	apper and Gray-coded shou k Gray	ıld all use a capi	tal "G" because the		POSED ACCE				
SuggestedRemedy	" in 04.0.40.0 (0 in the each		0	<http:< td=""><td></td><td>2.org/3/maint/j</td><td>public/healey_2_0</td><td></td><td>hat no changes are</td></http:<>		2.org/3/maint/j	public/healey_2_0		hat no changes are
	" in 94.3.10.8 (2 instances)	and Figure 126	-0.				iger being accepte		llations" and for which
Proposed Response PROPOSED ACCEPT.	Response Status W			C/ 1	SC 1.1	-	P <b>47</b>	L <b>35</b>	# 30
C/ 00 SC 0	Р	L	# 143	Umnov, A			Corning		
Dawe, Piers	Mellanox Te	chnologies		Comment			ent Status D	ara ta naga E4 a	bucket
Comment Type E	Comment Status D		bucket				ther sections have		s section 1.1, but it is h
This document would be	e easier to use with unique	page numbers.		Suggeste	dRemedy				
SuggestedRemedy				Wher	n final version i	s ready, upda	te pages number	in the contents	
	mbered consecutively throu 11. Clause 115 could be m			,	l Response POSED ACCE		se Status WIIPLE.		
Proposed Response	Response Status W			Ensu	re alignment be	etween the tal	ble of contents an	d the body of the	e draft.
PROPOSED REJECT.					0			2	
	number in the page footer ase of use. The options pro								
	ame page numbers appear ifying the section (or claus								
•	•	• •	ed T/technical E/editorial G DNSE STATUS: O/open W/v	0	d II/unsatisfia	d Z/withdraw	C/ 1 n SC 1		Page 1 of 41 9/7/2017 12:06:0

SORT ORDER: Clause, Subclause, page, line

9/7/2017 12:06:01 PM

			Grow, Robe	ert	RMG	Consulting	
Comment Type <b>TR</b> Comment Status <b>D</b> It looks like ANSI has changed a lot of docum cannot be found as referenced in this subclau does not produce any of the documents cited Fibre Channel and FDDI documents cannot be SuggestedRemedy Update to locatable documents, some detailed comments.	ent numbers. Most of se. An ANSI webstore with that lead on the d e located with the cited d updates are included	e search on ANSI/TIA ocument number. I numbers.	Networ Metallio Suggested Update Proposed F	ch produces the ks and Custom c Interface (DM <i>Remedy</i> to current revi Response	er Installation Very-hig	TIS-0600424.2004(S h-bit-rate Digital Sut w document number	
Proposed Response Response Status V PROPOSED ACCEPT IN PRINCIPLE.	V			o comment #46			
In 1.3, update the normative references to AN <hr/> http://www.ieee802.org/3/maint/public/healey citations of these references to agree with the	/_3_0917.pdf> and re-	sort. Change all	C/ <b>1</b> Grow, Robe	SC 1.3 ert	P 55 RMG (	L <b>49</b> Consulting	# 50
C/1     SC 1.3     P 55       Grow, Robert     RMG C       Comment Type     TR     Comment Status       A search on :"Trace Message Formats" only s       Structure and Representation of Trace Messa	hows: ATIS-0300269	# 47 <i>references</i> 2006(R2011), ation Exchange	(ISDN) Side of Suggested	ch produces: A û Basic Acces f the NT (Layer <i>Remedy</i>	Comment Status TIS-0600601.1999(R2 s Interface for Use on I 1 Specification) sion, and resort per new	014), Integrated Ser Metallic Loops for Ap	oplication on the Network
SuggestedRemedy Update to current revision, and resort per new	-		Proposed I	Response	Response Status		
Proposed Response Response Status V PROPOSED ACCEPT IN PRINCIPLE.	v		Refer t	o comment #46	ð.		
Refer to comment #46.			C/ <b>1</b> Grow, Robe	SC <b>1.3</b> ert	<i>Р</i> <b>56</b> RMG (	L <b>1</b> Consulting	# <u>51</u>
Comment Type TR Comment Status D		# 48 references		ch produces:  A <emdash>Basi</emdash>	Comment Status TIS-0600605.1991(S2 c Access Interface for	015), Integrated Ser	
A search on the document title finds: ATIS-06 for Loop Transmission Systems	600417.2003(S2015), \$	Spectrum Management	Suggested Update		ument number.		
SuggestedRemedy Update to current revision, and resort per new Proposed Response Response Status V			Proposed F PROP	,	Response Status	w	
PROPOSED ACCEPT IN PRINCIPLE.			Refer t	o comment #46	S.		
Refer to comment #46.							

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SC 1.3 9/7/2017 12:06:02 PM SORT ORDER: Clause, Subclause, page, line

C/ <b>1</b>	SC 1.	3	P 56	L <b>4</b>	# 52	C/ 1	SC	1.3	P 56	L <b>25</b>	# 55
Grow, F	Robert		RMG Consultin	g		Grow, R	obert		RMG Consulti	ng	
	51	TR	Comment Status D		references	Comme		TR	Comment Status D		references
Sugges	tedRemedy		be found on the ANSI web s utgoing TIA liaisons to provide			Dist	ributed D	ata Inter	arch on TP-PMD produces: A face (FDDI) - Token Ring Twist (formerly INCITS 263-1995 (R	ed Pair Physica	
	document, a		cessary, updated reference in			00	edReme ate to the		ed document with new number		
•	ed Respons OPOSED A		Response Status W N PRINCIPLE.			•	d Respoi		Response Status W		
Ref	fer to comme	ent #46.				Ref	er to com	ment #46	3.		
C/ <b>1</b> Grow, F	SC <b>1.</b> Robert	3	P <b>56</b> RMG Consultin	L <b>7</b> Ig	# 53	C/ <b>1</b> Grow, R	SC obert	1.3	P <b>56</b> RMG Consulti	L <b>30</b> ng	# 56
Foc	otnote 3 is po		Comment Status <b>D</b> cut and paste with incomplet tm in the URL).	e editing error	references, bucket (ANSI in the		ld not vei		Comment Status <b>D</b> nent name without having a log Twork?) Either ATIS is inconsi		
	<i>tedRemedy</i> ete the footr	note					edReme	•	s capitalized (NETwork versus	Network to pro	duce acronym SONET)
	ed Respons		Response Status W						with line 33 is accurate.	Network to pro	
	OPOSED A					•	d Respoi		Response Status W		
C/ <b>1</b> Grow, F	SC 1. Robert	3	P <b>56</b> RMG Consultin	L <b>23</b> Ig	# 54				e with the document titles show •. Under "Document Center" cli		
An . Teo	ANSI web s chnology - Fi	bre Char	Comment Status <b>D</b> ch produces: ANSI INCITS 2 anel - Physical and Signaling ncludes supplements)						er" field. No login is required fo		
00	<i>tedRemedy</i> date to curre	nt docum	nent number.								
,	ed Response OPOSED A		Response Status W N PRINCIPLE.								

Refer to comment #46.

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

C/ 1 SC 1.3 Page 3 of 41 9/7/2017 12:06:02 PM

C/ 1 SC 1.3	P 56	L 38	# 57	C/ 1	SC 1.3		P 57	L <b>12</b>	# 59
Grow, Robert	RMG Consul	ting		Grow, Rob	ert		RMG Consu	Iting	
Comment Type <b>T</b> C CISPR 22 has been withdra CISPR-32. This probably is both of those clauses are de SuggestedRemedy	n't a problem for the 8.7	7.3.2 and 9.9.7.2	1 citations because	(on the this sta	ted docume EIEC webst andard in re	nt has b ore) doe cent cla	Comment Status <b>D</b> been revised (more than es not agree with this nor uses. Note depricated c . Clause 55 cites 1996 a	mative reference lause 23 includes	. We continue to cite s year citations. Clause
Consider deprication of clau	se 15 (10BASE-F).			Suggested	Remedy				
	sponse Status W		ently expected to have	7:2008 way, u clause referer	8+AMD1:20 nshielded, f s to current nces for othe	1, Con ree and version er revisi	date to an undated reference nectors for electronic equi- fixed connectors). Alter . Another less preferrab ons as has been done for htion to the undated citat	uipment - Part 7: nate, update refe le alterrnative wo r the following fib	Detail specification for 8 rence and referencing uld be to add additional er optic standards (this
Withdrawn standards may s Style manual 10.5.1 item h). "Reference to withdrawn sta withdrawn standards may co retrieve."	ndards may be made; l ontain obsolete or erron	however, sponso eous informatior	rs are cautioned that and may be difficult to	Chang specifi	OSED ACC e the refere cation for 8-	EPT IN nce to " way, ur	Response Status W PRINCIPLE. IEC 60603-7, Connector Ishielded, free and fixed	connectors."	
As pointed out in the comme C/ 1 SC 1.3 Grow, Robert	ent, CISPR 22 is availal P <b>56</b> RMG Consult	L <b>43</b>	# 58	specifi undate to "IEC	c clause, su ed version o C 60603-7" i	bclause the doo 14.5.1	ds Style Manual, 10.5.1 i a, table, or figure of anoth cument is listed in the no l, 14.10.4.5.14 (MR1), ar	ner document sha ormative reference nd 14.10.4.7.1 (LS	all be dated even if the es." Change reference
This revision does not appea document. SuggestedRemedy Update to ETSI TS 101 270 place to get historical docum	-1 V1.4.1 (2005-10), or			55.8.1 60603- the foll "IEC 6 way, u 250 MI "IEC 6	and 126.8. -7-5 but the lowing to the 0603-7-4, C nshielded, f Hz." 0603-7-5, C	include e docu e list of i onnecto ree and onnecto	becfic a clause and spec e normative requirements ments are not included in normative references. ors for electronic equipment fixed connectors, for data prs for electronic equipment and connectors, for data to	s related to IEC 6 n the list of norma ent - Part 7-4: De ta transmissions ent - Part 7-5: De	ative references. Add tail specification for 8- with frequencies up to tail specification for 8-
The reference is present at Historical documents are ind butten under "Filter search r results window).	luded in the search res			subcla "Eight- 60603- 113.8. but the to the	use referen pin connect -7-5 (screen 1 includes n ese docume list of norma	ce. Rep ors mee ed)." ormativ nts are i itive refe	he Value/Comment for it lace the contents of the eting the requirements of re requirements related to not included in the list of erences. tors for electronic equipn	Value/Comment IEC 60603-7-4 ( DIEC 60603-7-51 normative refere	" row with the following. unscreened) or IEC and IEC 60603-7-81 nces. Add the following

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SC 1.3 9/7/2017 12:06:02 PM SORT ORDER: Clause, Subclause, page, line

way, shielded, free and fi 000 MHz." In 113.12.8, the Value/Co reference. Replace the co "Eight-pin connectors me	ctors for electronic equipme xed connectors, for data tra omment for item MDI1 is inc ontents of the "Value/Comm eting the requirements of IE ency extensions specified in	nsmissions wit onsistent with ent" row with t C 60603-7-51	h frequencies up to 2 the subclause he following. with the improved	SuggestedR	vpe <b>T</b> e to SFF-8642 emedy	Inte Comment State 2 is out of date. erence to Rev 3.2, 4	us D	L <b>16</b> 3, 2017	# 44
C/ 1 SC 1.3 Grow, Robert	P 60 RMG Consultir	L <b>19</b> ng	# 60	Proposed Re PROPO	•	Response Statu	ıs <b>W</b>		
Comment Type T	Comment Status D		references, bucket	[Editor's	note: Change	d page to 64, line t	o 16.]		
includes IEC before the C SuggestedRemedy Delete IEC and resort do				Mini Mul [Editor's	tilane 12X 10	SFF-8642, Rev. 3. Gb/s Shielded Con nly in Clause 85 (as terface".]	nector (CX	(P10)."	
PROPOSED ACCEPT IN	Response Status W			C/ 1	SC 1.3	1	⊳64	L <b>21</b>	# 130
				Dawe, Piers		Me	llanox Tec	hnologies	
	remedy and also change c 96.9.2.2, 96.11.4.9 (ES7),			Comment Ty This refe	,	Comment Stat			references
C/ 1 SC 1.3	P 64	L 14	# 43	SuggestedR	emedy				
Lusted, Kent Comment Type T	Intel Comment Status D		references, bucket	this entr	y "TIA-455-12 <sup>-</sup>		27-A, Basio		61280-1-3, remove acterization of Laser
reference to SFF-8436 is	out of date.			Proposed Re	esponse	Response Statu	us W		
SuggestedRemedy Consider updating refere	nce to Rev 4.8, October 31,	2013		PROPO	SED ACCEPT	IN PRINCIPLE.			
Proposed Response PROPOSED ACCEPT IN	Response Status W					erence "TIA-455-1 ser Diodes." and m			
	F-8436, Rev 4.8, October 3	1, 2013, Specil	fication for QSFP+ 10			lacement of referer 80-1-3, see comme		-455-127-A-200	6 with [equivalent]
[Editor's note: Cited only "mechanical mating interl	in Clause 85 (as "SFF-8436 ace".]	5"). Citations ex	plicitly call out the						

C/ 1 SC 1.3

	P 64	L <b>50</b>	# 45	C/ 1 SC 1.4.	289	P 84	L <b>42</b>	# 146
Lusted, Kent	Intel			Thompson, Geoff		GraCaSI S.A.		
Comment Type <b>T</b>	Comment Status D		references, bucket	Comment Type T		nt Status D		buck
Committee leaders tran special membership cla	specifications available at ft sitioned the organizational s iss named Technology Affilia ifications in a similar fashion	tewardship to SN ate, while retainin	NIA, to operate under a ng the longstanding	link section was a endspan PSE an	always intended to d precisely paralle c section should u	b be precisely equivel b to that of a link se	valent to that o egment for a m	aries. The definition of f a link segment for a nispan PSE. The gy as has always been
SuggestedRemedy				SuggestedRemedy				
	vebsite link to http://www.sni	a.org/sff/specific	ations	Change the CUR from the PSE to t		e draft from: 1.4.28	39 link section:	The portion of the link
Proposed Response	Response Status W							
PROPOSED ACCEPT						9 link section: The p erface (PI) and the		nedium connection
The response to comme	ent #71 updates footnote 22	. See comment #	¥71.	This would be im	plementation of M	laintenance Reque	et #1300	
C/ 1 SC 1.3	P 64	L <b>50</b>	# 71	Proposed Response		•	51 # 1505.	
Anslow, Pete	Ciena			PROPOSED AC	,	e Status W		
Comment Type E	Comment Status D		references, bucket	PROPOSED ACC	JEPT.			
	s transitioned its activities to A (Technology Affiliate) and			C/ 1 SC 1.4.	419	P <b>93</b>	L <b>21</b>	# 129
	only contains pointers to th			Dawe, Piers		Mellanox Techr	lologies	
www.snia.org/sff/specifi	cations	-		Comment Type T		nt Status D		reference
SuggestedRemedy Change footnote 22 fror						tandards where the ition of RMS spect		e and adequate. IEC
	available at ftp://ftp.seagate	.com/sff." to:		SuggestedRemedy				
"SFF specifications are	available from the Storage N		stry Association					TIA 455-127-A (FOTP-
(http://www.snia.org/sff/	, ,					cal wavelength rang oment of the power		by IEC 61280-1-3." or
Proposed Response	Response Status W					ee IEC 61280-1-3.)		
PROPOSED ACCEPT.				Proposed Response	1 0 (	e Status W		
				PROPOSED ACC	,			
				Change the defin				

C/ 1 SC **1.4.419** 

C/ 1 SC 1.5 Grow, Robert	P 98 RMG Consulting	L 18	# 61		<i>Cl</i> <b>21</b> Hidaka, Ya	SC <b>21.6.3</b> asuo	i	P <b>42</b> Fujitsu Lab. c	L <b>54</b> of Americ	# 92
Comment Type E Alphanumeric order viol SuggestedRemedy	Comment Status D ation		b	bucket	higher	xth column co , the fourth co	ontains values a	nt Status <b>D</b> and/or comments values and/or co		<i>bucke</i> e 28. In clause 31 and
Move 2B before 2-PAM Proposed Response PROPOSED ACCEPT.	Response Status W				Proposed	ge "the sixth c <i>Response</i>		ourth or sixth co Status W	lumn".	
Cl 1 SC 1.5 Grow, Robert Comment Type E Alphanumeric order viol	P 99 RMG Consulting Comment Status D ation	L <b>25</b>	# <u>62</u>	bucket	In add to the always	ition to the iss questionnaire s seem to be	sue cited in the items are to be the case.	comment, the pr e provided in the	right-most colum	ph states that "answers in" which doesn't
SuggestedRemedy Move DGD before DIC. Proposed Response PROPOSED ACCEPT.	Response Status W				"The r subcla in the or refe	nain part of th auses, each c first column erences to the	le PICS proform ontaining a grou Additional colum material that s	up of items. Each nns contain the o pecifies the item	nat questionnaire n item is identified question to be an in the main body	divided into d by an item reference swered, the reference of the standard, and the status of the
Cl 1 SC 1.5 Grow, Robert Comment Type E Alphanumeric order viol	P 102 RMG Consulting Comment Status D ation	L 31	# <u>63</u>	bucket	item (\ items markir enterir	whether supp are to be prov ng an answer ng a value or es from a set o	ort is mandator vided in a colum to indicate a re a set or a range	/, optional, or co in labeled "Supp stricted choice (ι of values. There	nditional). Answe ort". This is done ısually Yes, No, o	ers to the questionnaire e either by simply or Not Applicable) or by s where two or more
SuggestedRemedy Move RMS before ROF Proposed Response PROPOSED ACCEPT.	L. Response Status W				Cl <b>25</b> McClellan, Comment			P 227 Marvell at Status D	L <b>43</b>	# 34 bucke
					Suggested chang Proposed	dRemedy e "25.4.8" to '	Response	4.9 not 25.4.8 e Status W		

C/ 25 SC 25.4.7

C/ <b>30</b> SC <b>3</b> Hoglund, David	0.1.1	P <b>341</b> Johnson Con	L 6 trols	# 38		<i>CI</i> <b>30</b> Hidaka, Y	SC <b>30.5.1.1</b> .1 asuo		4 <b>3</b> au Lab. of <i>i</i>	L <b>8</b> Americ	# 93	
Comment Type	E Com	nment Status D		bı	ucket	Comment	Туре Т	Comment Status	D			bucket
No space betw	een sentences							ray contains a count	of uncorr	ectable FEC blo	ocks, not correct	ted
	ditions to this s	tandard. Implementa				This e	blocks. error was correcte the same change	d in P802.3bs TF by	comment	t i-12 to P802.3	bs D3.0. We ma	у
This might be j The file is SEC		etter placement durin	g PDF creation.			Suggeste	dRemedy					
Proposed Respons		onse Status W				Chang	ge "corrected" to	'uncorrectable".				
	CCEPT IN PRI					Proposed	Response	Response Status	w			
						PROF	POSED REJECT.					
· · ·	0.2.2.2.1	not a PDF artifact. In: P <b>347</b>	L 24	# 39				nt, the proposed cha 2.3bs. The approved				
Hoglund, David		Johnson Con	trols			chang	e, is anticipated t	o be incorporated in	to the revi	sion draft during	g Sponsor ballot	. In the
21		nment Status <b>D</b> lex sentence reduces	s readability	bı	ucket	the ch	ange may still be	Bbs is not approved i made via a comme this document at thi	nt during S			
SuggestedRemedy						C/ 30	SC 30.5.1.1.2	25 P4	44	L 48	# 1	
		o reception-related er	ror statistics, a h	ierarchical order has	s	Anslow, P		Ciena	a			
been establish The file is SEC						Comment	Type E	Comment Status	D			bucket
There is also a hierarchical or	n intrusive solut ler for DTE MAC	ion: "With regard to r Cs has been establisl th one frame, only on	ned such that wh	nen multiple error		In the "this	text added by P8	02.3bq: derived from to the I		rain count regis	ter ."	
Proposed Respons	e Resp	onse Status W				Suggeste	dRemedy					
PROPOSED A	CCEPT IN PRI					00	ge: "from to the" t	o: "from the"				
Change the first	t sentence of 3	0.2.2.2.1 to the follow	ina			Proposed	Response	Response Status	w			
"A hierarchial c	rder has been e	established for DTE N	IAC reception-re	elated error statistics	3	PROF	POSED ACCEPT					
such that, whe is returned to t		statuses can be asso	ciated with one	frame, only one stat	us	C/ 30	SC 30.9.1.1.1	I <b>4</b> P <b>4</b>	81	L 33	# 14	
						Anslow, P		Ciena				
						Comment	Type E	Comment Status	D			bucket
						with th		num increment rate t, which uses a spac		. ,		
						Suggeste	dRemedy					
						Chang	ge "100000" to "1	00 000"				
						•	Response POSED ACCEPT	Response Status	W			
									01 00		Danco	-E 44
		ditorial required GR/ d A/accepted R/reie					d I l/unsatisfied 7	7/withdrawn	CI 30 SC 30.9	1 1 14	Page 8 c	or 41 7 12:06:03 F

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SC 30.9.1.1.14 9/7/2017 12:06:03 PM SORT ORDER: Clause, Subclause, page, line

C/ 31B SC 31B.4.6 Anslow, Pete	Р <b>761</b> Ciena	L <b>21</b>	# 15	C/ <b>45</b> SC <b>45.2.1</b> Anslow, Pete	.84	P <b>131</b> Ciena	L <b>2</b>	# 17
Comment Type E The format of PICS ite	Comment Status <b>D</b> ms TIM2 through TIM11 is ur	nusual and there	<i>bucket</i> fore confusing.	<i>Comment Type</i> <b>E</b> There is no text in 4		ent Status <b>D</b> refers to Table 45-	64	bucket
31B.3.7. Remove the subrow: " pause_time, to cessat Apply a footnote to the	hrough TIM11 its own row in t Delay from receiving valid PA ion of transmission", "31B.3.7 v Value/Comment entry for ea ture: "Delay from receiving va	USE command, ", "Measured as ich item TIM2 th	with nonzero value for described". rough TIM11 with same	SuggestedRemedy Add "The assignme shown in Table 45-6 Proposed Response PROPOSED ACCE	4." Respor	ne MultiGBASE-T f	ast retrain status	and control register is
value for pause_time,	to cessation of transmission." for TIM2 through TIM11, char	•		C/ <b>45</b> SC <b>45.2.1</b> Anslow, Pete	.143.1	Р <b>179</b> Ciena	L <b>34</b>	# 7
Proposed Response PROPOSED ACCEPT	Response Status W			Comment Type E This text introduced their respective regi	by 802.3bn	ent Status <b>D</b> says "and their refl	ective registers"	<i>bucket</i> which should be "and
C/ 45 SC 45.2	P 53	L <b>40</b>	# 40	Same issue in 45.2				
Hoglund, David	Johnson Cont	trols		SuggestedRemedy				
Comment Type E	Comment Status D		bucket	Change "reflective"	to "respective	e" here and in 45.2	.1.143.5	
Subject-verb agreeme	nt			Proposed Response	,	nse Status 🛛 🛛 🛛 🛛 🛛 🗤		
SuggestedRemedy	· · · · ··			PROPOSED ACCE	PT.			
"the contents of both r The fie is SECTION F				C/ 45 SC 45.2.1	.143.3	P 179	L <b>47</b>	# 8
Proposed Response	Response Status W			Anslow, Pete		Ciena		
PROPOSED ACCEPT				Comment Type T	Comm	ent Status D		bucket
C/ 45 SC 45.2.1	P 58	L <b>43</b>	# 25	This text introduced "US_CID" is mentio	by 802.3bn ned in 102.2.	says "the variable 3.1.1, it is defined	US_CID defined in 102.2.7.3.	in 102.2.3.1.1" . While
Anslow, Pete	Ciena			SuggestedRemedy				
Comment Type E	Comment Status D		bucket	Change "102.2.3.1.	1" to "102.2.7	'.3"		
The Register name co end of the register nam	lumn in Table 45-3 should no nes.	t include "registe	er" or "registers" at the	Proposed Response PROPOSED ACCE		nse Status W		
SuggestedRemedy								
	om the rows for 1.162 through n the rows for 1.200, 1.201, a		65, 1.166					
Proposed Response PROPOSED ACCEPT	Response Status W							

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

C/ 45 SC 45.2.1.143.3 Page 9 of 41 9/7/2017 12:06:03 PM

C/ 45 SC 45.2.3 Anslow, Pete	Р <b>216</b> Ciena	L <b>52</b>	# 18	C/         45         SC         45.2.3.25.12         P 248         L 9         # 19           Anslow, Pete         Ciena
Comment Type E Comment In Table 45-168, the names for regist 45.2.3.18 and 45.2.3.19 SuggestedRemedy In Table 45-168, change "test pattern	ers 3.42 and 3.43 " to "test-pattern" i			Comment Type       T       Comment Status       D       bucket         The bit numbers and lane numbers are incorrect in 45.2.3.25.12       SuggestedRemedy       bucket       Change "bit 3.53.8" to "bit 3.53.0" in 2 instances       bucket         Change "bit 3.53.8" to "bit 3.53.0" in 2 instances       Change "lane 0" to "lane 8" in 2 instances       bucket
Proposed Response Response S PROPOSED ACCEPT.	Status <b>W</b>			Proposed Response Response Status W PROPOSED ACCEPT.
Cl 45 SC 45.2.3.15.3 Anslow, Pete	<i>Р</i> <b>235</b> Ciena	L 19	# 2	C/         45         SC         45.2.7.11.1         P 317         L 20         # 16           Anslow, Pete         Ciena         C
Comment Type       T       Comment         This says ". defined by counter lfer_c       55.3.6.2 for 10GBASE-T, ." but "lfer_         55.3.7.2       SuggestedRemedy         Change "55.3.6.2" to "55.3.7.2"         Proposed Response       Response S	ount in 126.3.7.2 i count" is not define			Comment Type       E       Comment Status       D       bucket         "in contained in 55.6.2" should be "is contained in 55.6.2"       SuggestedRemedy       Change "in contained in 55.6.2"       Proposed Response       Response Status       W         PROPOSED ACCEPT.
PROPOSED ACCEPT. C/ 45 SC 45.2.3.15.4	P 235	L 28	# 3	C/ 45 SC 45.2.7.13.6 P 323 L 15 # 4 Anslow, Pete Ciena
Anslow, Pete Comment Type T Comment This says ". defined by counter errors 5GBASE-T, 55.3.6.2 for 10GBASE-T 55.3.6.2, it is defined in 55.3.7.2 SuggestedRemedy Change "55.3.6.2" to "55.3.7.2"	Ciena S <i>tatus</i> <b>D</b> ed_block_count in	126.3.7.2 in 2.5G	bucke BASE-T and	Comment Type       T       Comment Status       D       bucket         This text introduced by 802.3bq says "If the device supports EEE operation for 40GBASE-T as defined in 113.6.1, ." but 113.6.1 is "Support for Auto-Negotiation". 113.1.3.3 seems to contain more information about EEE than 113.6.1 does.       SuggestedRemedy         Change "113.6.1" to "113.1.3.3"       Proposed Response       Response Status       W         PROPOSED ACCEPT.       PROPOSED ACCEPT.       Proposed Response       Response Status       N

C/ 45 SC 45.2.7.13.6

C/ 45 SC 45.2.7.	13.15	P 324	L <b>8</b>	# 5	C/ 53	SC 53.4.7	P625	L <b>6</b>	# 142		
Anslow, Pete		Ciena			Dawe, Pier	ſS	Mellanox Teo	chnologies			
	by 802.3bq_sa 5.1, ." but 113.	.6.1 is "Support fo	r Auto-Negotiati	<i>bucket</i> peration for 25GBASE- on". 113.1.3.3 seems	Global 86 PM PMD_	bal PMD transn _PMD_transmit D global transm global_transmit_	it disable function, Global PN _disable	/ID transmit disat			
Change "113.6.1" to	"113.1.3.3"					bal PMD transn _PMD_transmit	nit disable function, Global Pl _disable	MD transmit disa	ble,		
Proposed Response	Respons	e Status W			Suggestea	IRemedy					
PROPOSED ACCEP	ΥТ.				Can th	e order of "PME	)" and "global" be made cons	istent? Similarly	for signal detect.		
C/ 49 SC 49.2.4.9	9	P 493	L 28	# 94	Proposed	Response	Response Status W				
Hidaka, Yasuo	•	Fujitsu Lab. o		" "	PROP	OSED ACCEPT	IN PRINCIPLE.				
Comment Type <b>T</b> The phrase "within an any character" implic SuggestedRemedy Change "within any c Proposed Response	ny character of the cha	bit of character".	Ū		In the PMD clauses in the draft, either "PMD_global_transmit_disable" or "Global_PMD_transmit_disable" is consistently used for the variable name throughou clause. Similarly, either "PMD_global_signal_detect" or "Global_PMD_signal_detect consistently used. There are 79 instances of "Global_PMD_transmit_disable" and 50 instances of "PMD_global_transmit_disable" in the draft, so changing all PMD clauses to one or the other would cause significant disruption without much benefit.						
PROPOSED ACCEP	,						uses, there is inconsistency a e minimum change to make				
[Editor's note: Page of Change: "within any character "on any character of	of the block"					bal PMD transr	1-2, Table 113-9, and Table nit disable" since this is the C				
,					In 54.5	5.4, change the	heading to "Global_PMD_sig	nal_detect functi	on"		
							.6, 72.6.5, 84.7.6, and 85.7.6 t_disable function"	change the hea	ding to		

In 86.5.7, 87.5.7, 88.5.7, 89.5.6, 95.5.7, and 112.5.6 change "PMD\_global\_transmit\_disable function" to "PMD global transmit disable function"

CI 53 SC 53.4.7

	P 689	L <b>41</b>	# 76	C/ 55	SC 55.2.1.2	.3	P694	L <b>40</b>	# 77
Zimmerman, George	CME Consultin		" 10		an, George		IE Consultir		
Comment Type E 0 PMA_LINK.indication (link_ 55-4 '10GBASE-T service i interface', and is not used i but is shown in Figure 55-3 SuggestedRemedy	nterfaces', is not listed in s n the PCS state diagram of	subclause 55.2 on referenced ir	.2 'PMA service n the PCS related text,	howev primiti are re diagra	ubclause states rer 'PMA_LINK.i ve, ferenced in subo ms.	ndication', nor the ' clause 55.3.6.2 'Sta	receipt of th link_status' ate diagram	parameter com parameters' for	the PCS state
Suggest that: [1] Remove the 'link_status to the	•			Negot Suggested	ation. (commer IRemedy	at 115, 802.3bq 3rd	WG recirc)	Ū	n and used by Auto-
'PCS TRANSMIT & TRANS [2] Remove the 'link_status [3] Remove the 'link_status	' signal from figure 55-5 'F	ČS reference o	diagram'.	replac		egotiation uses this			i 55.3.6.2.' should be ge in link_status as
to the 'PMA SERVICE INTERFA( TDI) [4] Update the variable defi	-	-		Proposed PROP	Response OSED ACCEP <sup>-</sup>	Response Statu L.	us W		
variables' to read 'The link_ communicated through the	status parameter set by P	MA Link Monit		C/ <b>55</b> Zimmerma	SC <b>55.2.2.3</b> an, George		P <b>698</b> /IE Consultir	L <b>26</b> ng, Inc.	# 78
Proposed Response R PROPOSED ACCEPT IN F Apply the suggested remed 55.4.5.1 'State diagram var PMA Link Monitor state dia primitive.'	ly except for the variable c iables'. Change this to rea	id 'The link_sta	tus parameter set by	synch also b covere PMA_	ubclause states ronously with even e conveyed by t ed, if so the sim UNITDATA.requ	his message (see s plest approach wou	erates PMA cycle.'. As w subclause 5 Ild appear to	vell as SYMB_4 5.2.2.3.1). Sho be to send a	D, the value ALERT car uldn't this case also be
				with	est that 'The PC transmit clock c UNITDATA.requ	S generates PMA_I ycle.' should be cha uest synchronously <i>Response Statu</i>	anged to rea with every t	ad 'The PCS ge	

PROPOSED ACCEPT.

C/ 55 SC 55.2.2.3.2

C/         55         SC         55.3.2.1         P 703         L 52         #         79           Zimmerman, George         CME Consulting, Inc.         CME Consultin	CI 55         SC 55.3.2.2         P704         L 3         # 80           Zimmerman, George         CME Consulting, Inc.         Employed to the second
Comment Type       E       Comment Status       D       bucket         This subclause states that 'PCS Reset sets pcs_reset=ON while' however subclause       55.3.6.2.2 'Variables' defines pcs_reset as a Boolean. (802.3bq 3rd WG recirc comment 117)       SuggestedRemedy         Suggest that ' sets pcs_reset=ON' should be changed to read ' sets pcs_reset = true'.       Proposed Response       Response Status       W         PROPOSED ACCEPT.       PROPOSED ACCEPT.       Proposed Response       Response Status       PROPOSED ACCEPT.	Comment Type       E       Comment Status       D       bucket         While this subclause states that the PCS transmit function shall meet the PCS state diagram       (Figure 55-16) and bit ordering (Figures 55-6 and 55-8) I don't believe that either of these address the operation of what appears to be a three way multiplexor controlled by the PMA_TXMODE.indication parameter tx_mode which selects between training (SEND_T), normal (SEND_N) and sending zeros (SEND_Z). There does appear to be a description of this       in paragraphs six, seven and nine of this subclause, however they do not contain 'shall' statements, nor does it appear there are any related shall statements elsewhere. Based on this         there doesn't appear to be any 'shall' statements in relation to the control of the parameter tx_mode. (comment 120 802.3bq 3rd WG recirc)       the control of the parameter tx_mode.
	SuggestedRemedy
	<ul> <li>Suggest that:</li> <li>[1] The text ' has the value SEND_Z, PCS Transmit passes a vector of zeros' be change to</li> <li>read ' has the value SEND_Z, PCS Transmit shall pass a vector of zeros'.</li> <li>[2] The text ' has the value SEND_T, PCS Transmit generates sequences' be changed to</li> <li>read ' has the value SEND_T, PCS Transmit shall generate sequences'.</li> <li>[3] The text 'In the normal mode of operation, the PMA_TXMODE.indication message has the</li> <li>value SEND_N, and the PCS Transmit function uses a' to read 'If a</li> <li>PMA_TXMODE.indication message has the value SEND_N, the PCS is in the normal mode of</li> <li>operation, and the PCS Transmit function shall use a</li> <li>[4] The PICS be updated to add these three new shall statements.</li> </ul>
	Proposed Response Response Status W PROPOSED ACCEPT.

C/ 55 SC 55.3.2.2

C/ 55 SC 55.3.2.2.12 P712 L 17 # 95	CI 55 SC 55.3.2.3 P717 L 43 # 82
Hidaka, Yasuo Fujitsu Lab. of Americ	Zimmerman, George CME Consulting, Inc.
Comment Type       T       Comment Status       D         The phrase "within any character of the block" is misleading or incorrect, because "within any character" implicates "on any bit of character".         SuggestedRemedy         Change "within any character of the block" to "on any character within the block".         Proposed Response       Response Status       W         PROPOSED ACCEPT IN PRINCIPLE.         Change:       "within any character of the block" to:       "on any character of the block".	Comment Type       E       Comment Status       D       bucket         Subclause 55.3.7.1 'Status' seems to be the only location where the definition of the parameter       PCS_status is provided where it states that 'Indicates whether the PCS is in a fully operational       state. It is only true if block_lock is true and hi_lfer is false.'. In addition the PCS_status parameter is defined as having the values 'OK' and 'NOT_OK' (see 55.2.2.6.1) and not 'true and 'false'.         Since this is a subclause of 55.3.7 'PCS management' suggest this is not the best place to provide the only definition. Instead, since Figure 55-3 shows PCS_status sourced from the PCS RECEIVE block, suggest this definition be provided in subclause 55.3.2.3 'PCS Receive function'. (comment 137 802.3bg 3rd WG recirc)
CI 55       SC 55.3.2.2.22       P 716       L 52       # 81         Zimmerman, George       CME Consulting, Inc.       CME Consulting, Inc.         Comment Type       E       Comment Status       D       bucket         It is the tx_symb_vector parameter of the PMA_UNITDATA.request primitive that can be set to       the value ALERT (see subclause 55.2.2.3.1). As a result of that the next time the PMA_UNITDATA.request message is sent it will have the value ALERT. (802.3bq 3rd WG recirc, comment 133)	SuggestedRemedy         Suggest that in subclause 55.3.2.3 'PCS Receive function' the text ' hi_lfer is de-asserted, the PCS Receive process continuously accepts blocks.' be changed to read ' hi_lfer is deasserted, the PCS_status parameter of the PMA_PCSSTATUS.request primitive is set to OK, and the PCS Receive process continuously accepts blocks.'.         Proposed Response       Response Status         PROPOSED ACCEPT.
SuggestedRemedy Suggest the text ' the PMA_UNITDATA.request message is set to the value ALERT.' be changed to read ' the PMA_UNITDATA.request parameter tx_symb_vector is set to the value ALERT.'. Proposed Response Response Status W PROPOSED ACCEPT.	Cl 55       SC 55.3.6.2.2       P724       L 50       # 75         Zimmerman, George       CME Consulting, Inc.           Comment Type       T       Comment Status       D       bucket         "where the lfer_cnt exceeds 16"       Ifer_cnt is defined as only counting up to a maximum of 16. A similar comment was made and accepted on 802.3bq and 802.3bz (802.3bq initial sponsor ballot comment i-80)       SuggestedRemedy         change "exceeds" to "reaches"       Proposed Response       Response Status       W         PROPOSED ACCEPT.       Proposed Response       Response Status       W

C/ 55 SC 55.3.6.2.2

C/ 55 SC 55.3.6.3	P 729	L <b>24</b>	# 83		C/ 55	SC 55.4.5.1	P <b>753</b>	L <b>29</b>	# 84
Zimmerman, George	CME Consulti		# 03		Zimmermar		CME Cons		# 04
Comment Type       E       Comment Status       D       bucket         Delete the subclause 55.3.6.3 'Messages', a subclause 55.3.6.2 'State diagram parameters' (comment 139 802.3bq 3rd WG recirc) since for the following reasons there are not related to the state diagram.       [1] The message 'PMA_UNITDATA.indication' and the parameter 'rx_symb_vector' are not referenced in the PCS state diagrams.         The input to Figures 55-18 and 55-19 'PCS 64B/65B Receive state diagram' are 'rx_coded' which is the 'Input to decode function 65B block' in Figure 55-7 'PCS Receive bit ordering'. As can be seen in that figure, there are a number of processes that have already been performed on the parameter 'rx_symb_vector' from the message 'PMA_UNITDATA.request' before 'rx_coded' is presented as the input to the PCS state diagram.         [2] The message 'PMA UNITDATA.request' and the parameter 'tx symb vector' are not					Comment 7 The de howeve IEEE S WG rec Suggested Sugges general Auto-N 55.2.1.	Type <b>E</b> finition for the ' er itd 802.3 subcla circ, comment ' <i>Remedy</i> st that variable ted by egotiation and 1).	Comment Status D ink_control' variable states ause 28.2.6.2 defines the F 144) description be changed to p passed to the PMA via the Response Status W	'This variable is d MA_LINK.request read 'The link_con	t primitive. (802.3bq 3rd trol parameter
referenced in the PCS state diagr 64B/65B Transmit state diagram' 65B block' in Figure 55-6 'PCS transm number of processes that have to the message 'PMA_UNITDATA.reque [3] 'PCS_status' is not a message not generated or used by the by the F SuggestedRemedy Delete the subclause 55.3.6.3 'Me	rams. The output o are 'tx_coded' whi hit bit ordering'. As be performed bef est' is generated. e, but instead a par PCS state diagram	of Figures 55-16 ich is the 'Outpu can be seen in fore the parame rameter of a me	and 55-17 'PC it of encoder fur that figure, ther ter 'tx_symb_ve	S nction re are a ector' for	CI 55 Zimmerman Comment T Missing Suggested Add Pie Proposed F PROPC The val state di	SC <b>55.4.5.1</b> n, George g PICS for mtc Remedy CS for mtc and Response DSED ACCEPT riables mtc and lagram, the MA	P756 CME Cons Comment Status D and stc (comment 185 on 2 stc. See clause 113 for te Response Status W IN PRINCIPLE. stc are already covered by STER transition counter st The same is true for the	2nd WG recirc 802 xt v PICS item PMF1 ate diagram, and f	5 for the PHY Control the SLAVE transition

In 113.12.4, delete PICS items PMF38 and PMF39. In 126.12.4, delete PICS items PMF37 and PMF38.

C/ 55 SC 55.4.5.1

C/ 55         SC 55.4.5.2         P 757         L 11         # 86           Zimmerman, George         CME Consulting, Inc.	C/         55         SC         55.4.6.5         P763         L 15         # 88           Zimmerman, George         CME Consulting, Inc.
Comment Type E Comment Status D Missing PICS for Ipi_refresh_rx_timer, link_fail_sig_timer, and fr_maxwait_timer. (comment 186 on 2nd WG recirc 802.3bq)	Comment Type E Comment Status D bucke "start_link_fail_sig_timer" should be "start link_fail_sig_timer" (comment 229 on 2nd WG recirc 802.3bq)
SuggestedRemedy Add PICS as per comment. See clause 113 for text	SuggestedRemedy per comment
Proposed Response Catus W PROPOSED ACCEPT IN PRINCIPLE.	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
[Editor's note: referenced comment should be comment 182 on 2nd WG recirc 802.3bq]	In Figure 55-33, change "start_link_fail_sig_timer" to "start link_fail_sig_timer"
The timer lpi_refresh_rx_timer is already covered by PICS item PMF26 for the EEE Refresh monitor state diagram.	C/         55         SC         55.6.2         P 776         L 30         # 90           Zimmerman, George         CME Consulting, Inc.         CME Consulting, Inc.         Inc.
The timers link_fail_sig_timer and fr_maxwait_timer are already covered by PICS item PMF22 for the Fast retrain control state diagram. The same is true for the equivalent items in 113.12.4 (where two of them have a Status of EEE:M instead of FR:M) and also the equivalent items in 126.12.4 (where all three instead of FR:M) and also the equivalent items in 126.12.4 (where all three status of the equivalent items in 126.12.4 (where all three status of the equivalent items in 126.12.4 (where all three status of the equivalent items in 126.12.4 (where all three status of the equivalent items in 126.12.4 (where all three status of the equivalent items in 126.12.4 (where all three status of the equivalent items in 126.12.4 (where all three status of the equivalent items items in 126.12.4 (where all three status of the equivalent items	Comment Type E Comment Status D bucke "PMA_CONFIG.indicate" should be "PMA_CONFIG.indication" (to match the definition in 55.2.2.2). (802.3bq 2nd WG recirc, comment 230)
incorrectly have a Status of M). In 113.12.4, delete PICS items PMF42, PMF43, and PMF44.	SuggestedRemedy see comment
In 126.12.4, delete PICS items PMF41, PMF42, and PMF43. Also, in 55.12.4, item PMF26 "Refresh monitor state diagram" has a Value/Comment entry of "Implements state diagram of Figure 55-19", but Figure 55-19 is the "PCS 64B/65B Receive state diagram, part b". 55.4.2.7 also contains "The Refresh monitor shall comply with the state diagram of Figure 55-19."	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. In 55.6.2 and 55.12.4 PMF36, change "PMA_CONFIG.indicate" to "PMA_CONFIG.indication"
Change both of these cross-references to Figure 55-32, which is the "EEE Refresh monitor state diagram"	Cl         55         SC         55.12.6         P 806         L 11         # 89           Zimmerman, George         CME Consulting, Inc.
C/ 55       SC 55.4.6.3       P 761       L 20       # 87         Zimmerman, George       CME Consulting, Inc.       E       Comment Status       D       bucket         maxwait time done should be maxwait timer done (comment 228 on 2nd WG recirc	Comment Type       E       Comment Status       D       bucket         PME15 lists       "Test mode 7 operations" as mandatory but there isnt any shall in this paragraph. (       Should there be? All other text in this subclause for the other 6 test modes have "shalls". (802.3bq 2nd WG recirc, comment 183)
802.3bq)	SuggestedRemedy
SuggestedRemedy per comment	Change last para. Of 55.5.2 P765 L38 from "This mode reuses the 10GBASE-T scrambler and is defined in detail in 55.3.3." to read:
Proposed Response Response Status W	"This mode shall reuse the 10GBASE-T scrambler defined in detail in 55.3.3." Proposed Response Response Status W
PROPOSED ACCEPT IN PRINCIPLE.	

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 C/ 55
 Page 16 of 41

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 SC 55.12.6
 9/7/2017 12:06:03 PM

 SORT ORDER: Clause, Subclause, page, line
 SC 55.12.6
 9/7/2017 12:06:03 PM

CI 55         SC 55.12.9           Zimmerman, George	P 808 CME Consulting	L <b>17</b> g, Inc.	# 91	<i>Cl</i> <b>69B</b> Healey, Ad	SC <b>69B.4.6.4</b> am	P 823 Broadcom Lto	L <b>52</b> 1.	# 126
Comment Type <b>E</b> Option INS is used, but	Comment Status D t not defined under options (80)	2.3bq 2nd W0	<i>bucket</i> G recirc comment 177)	Comment T Typo "o	<i>Type</i> <b>E</b> characteristcs".	Comment Status D		bucke
*INS Installation	5.12.2, see 113.12.2 for text: on / cabling 113.7 e installation practices and cab		s [ ]No [ ] Items tions not applicable to a	Proposed I	e to "characterist	ics". Response Status W		
Proposed Response PROPOSED ACCEPT	Response Status W IN PRINCIPLE.			<i>Cl</i> <b>73</b> Anslow, Pe	SC 73.6.4	Р <b>516</b> Ciena	L <b>12</b>	# 12
"*INS", "Installation / ca	bottom of the table in 55.12.2 a abling", "55.7", "O", "Yes [] No nd cabling specifications not ap P <b>433</b>	[]", "Items m		field co	"Technology Abi	Comment Status <b>D</b> lity Field" says: "Technology e 802.3by amendment chan		
Anslow, Pete	Ciena	2.10		Suggested	Remedy			
Comment Type E	Comment Status D		bucket	Chang "Techn	e: "Technology A ology Ability Fiel	bility Field (A[24:0]) is a 25-I d (A[22:0]) is a 23-bit wide fi	bit wide field cor eld containing ."	ntaining ." to:
There are two tables no SuggestedRemedy Remove the "n=3" over	Imbered Table 69-3	-3. Remove t	he "n=6" override from	Proposed I PROP	Response OSED ACCEPT.	Response Status W		
	Correct the autonumber forma	t for all level 2	headings in Clause 69	<i>CI</i> <b>73</b> Marris, Arth	SC 73.6.4	P <b>516</b> Cadence Des	L 41	# 68
Proposed Response PROPOSED ACCEPT	Response Status W			Comment		Comment Status D	igh Syste	
C/ 69B SC 69B.4.3 Healey, Adam	P <b>818</b> Broadcom Ltd.	L <b>47</b>	# 125	Suggested	-	72 6 4 and rankage with the	following noto:	
Comment Type E Typo "expresssed".	Comment Status D		bucket	NOTE-	Previous edition	73.6.4 and replace with the s of this standard prohibited I backplanes with PHYs that	advertisement	
SuggestedRemedy				Proposed I		Response Status W		
Change to "expressed"				•	OSED ACCEPT	,		
Proposed Response PROPOSED ACCEPT.	Response Status W			"NOTE that su	- Previous editio	aph of 73.6.4 with the followi ns of this standard prohibited over electrical backplanes wi s."	d simultaneous a	
				Also re	emove PICS item	LE18 as requested in Maint	enance Reques	t 1283.
[VPE: TR/technical require	d ER/editorial required GR/ge	neral require	d T/technical E/editorial G/	neneral		C/ 73	1	Page 17 of 41

TTPE. TR/lectifical required ER/editorial required GR/gener	a required Tritechinical Ereditorial Grgeneral	01 13	Fage 17 0141
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	SC 73.6.4	9/7/2017 12:06:03 PM
SORT ORDER: Clause, Subclause, page, line			

C/ 73 SC 73.6.5 Anslow, Pete	P <b>517</b> Ciena	L <b>3</b>	# 13	C/ 78 SC 78.1.4 Grow, Robert	P <b>38</b> RMG Consult	L <b>6</b> ing	# 65
(F2:F3:F0:F1) is enco but is not appropriate t SuggestedRemedy	Comment Status D ent changed "FEC (F0:F1) is ded in bits D44:D47". The for "FEC (F2:F3:F0:F1)" :F0:F1)" to: "FEC (F2, F3, F0, Response Status W	":" separator wa		items. When amend obvious. We need a interfaces are no long list which has been th	Comment Status <b>D</b> d 78-4 are growing large enoug ments 10 through 12 are merg consistent sort order, and as o ger linked to only one specific he approach to date problemati ng resulting in longer blocks of ed.	ed, the problem perational data speed. This ma c. Also, within	s will become more rates multiply, akes a speed ordered a speed, the number of
PROPOSED ACCEPT	,			SuggestedRemedy	ising the rules for 1.4 sort orde	r	
C/ 78 SC 78.1 Hoglund, David	P <b>32</b> Johnson Con	L 11 trols	# 41	Proposed Response PROPOSED ACCEP	Response Status W		
Comment Type E Extra space: "in to" ins SuggestedRemedy	Comment Status <b>D</b> stead of "into" at line break be	tween lines 11 a	bucket and 12		each to each PHY and interfac	e (for example,	in Table 78-1, split
"The transition time in The file is SECTION S	to and out of the lower level." SIX.			0	the rules described at		
Proposed Response PROPOSED ACCEP1	Response Status W			<http: www.ieee802.<br="">order".</http:>	org/3/WG_tools/editorial/requir	ements/words.h	ntml>, "Definition sort
				1. Increasing speed.	eed/reach" order using the follo	U	
				The following europe	mental rules address are inclus	lad to addrosa	manial access

The following supplemental rules address are included to address special cases.
PHY "family designations, by convention, are assigned a reach of 0.
"Copper" PHYs precede "Fiber" PHYs (all else being equal).
Alphanumeric sort (all else being equal).

CI 78 SC 78.1.4

CI 78 S	C 78.2	P <b>40</b>	L 35	# 66	C/ 78	SC 78.5.1	P 56	L <b>44</b>	# 103
Grow, Robert		RMG Consultin	ng		Ran, Adee		Intel		
there are tv port types נ port types a	nts have not vo port type using the sa are listed, e 4 sort order	Comment Status <b>D</b> t been consistent in how timing as sharing values in the same r ame values are in separate row ven when adjacent port types r, then values should be listed	ow, yet in the news. At lines 21, 4 have identical va	ext row, two additional 41 and 46, individual alues. If this table is	PHY ti Capab This is specifi	xt here says "T ming paramete ilities negotiati not true: the F ed in Table 78	Comment Status <b>D</b> The LPI signaling can operate the ers described in Table 78-4 or the on described in 78.4." PHY timing parameters are chat 4.	the operation of t	the Data Link Layer XGXS adds delays as
		e port types in the first column	into separate ro	WS.	error.				
Proposed Resp		Response Status W			Suggested	,			
PROPOSE See also co C/ 78 Si			L <b>48</b>	# 67	operate XGXS	as described i	signaling can (GXS with the PHY timing para n Table 78-4. There is no chan gotiation described in 78.4".		
Grow, Robert		RMG Consultin	ng		Option	ally add a tabl	e footnote to the XGXS row in	Table 78-4 simila	ar to footnote b.
are display second col While this I	78-2, this ta ed. This tal umn rather isting is mo	Comment Status <b>D</b> able is inconsistent in how diffe ble adds the compliation that is than the first column. (Compa re compact in space used, as me will become increasingly di	dentical values a are rows at 31 wi the table grows,	are correlated with the ith the row at line 48.)	Replac "The X the phy	OSED ACCEF the first para GXS can be ir ysical reach of	Response Status W T IN PRINCIPLE. agraph of 78.5.1 with the follow iserted between the RS and a the XGMII. The LPI signaling of s modified as described below	10 Gb/s PHY to can operate throu	
SuggestedRem Where mul	edy tiple cases but each c	exist for a port type, the colum ase having its own row for a gi <i>Response Status</i> <b>W</b>	in 1 should only						

PROPOSED ACCEPT.

See also comment #65.

C/ 78 SC 78.5.1

CI 78 SC 78.5.2 P 57 L Ran, Adee Intel	# 104	<i>Cl</i> <b>78</b> Ran, Adee	SC 78.6.3	P <b>59</b> Intel	L	# 105
Comment Type T Comment Status D The text here says "The LPI signaling can operate across thes to the PHY timing parameters described in Table 78-4 or the c		<i>Comment Ty</i> There is above (F	, no PICS item	Comment Status <b>D</b> for normative requirement to	o support fast w	bucket ake TLV for 40G and
Layer Capabilities negotiation described in 78.4."		SuggestedR	emedy			
This is not true: the PHY timing parameters are changed, sinc	e the AUIs add delays as	Add app	ropriate item(s	s) to the table.		
specified in Table 78-4 footnote b.		Proposed Re	esponse	Response Status W		
SuggestedRemedy		PROPO	SED ACCEPT	IN PRINCIPLE.		
Change to "The LPI signaling can operate across these interfaces with the PHY timing parameter Table 78-4 footnote b. There is no change in the operation of Capabilities negotiation described in 78.4".			upport 40G or	to 78.6.3 "Major capabilities/ higher operation   78.4   Sup		
Proposed Response Response Status W			ngo tho itom l	abel in 78.6.3 from "10G" to	"*100"	
PROPOSED ACCEPT IN PRINCIPLE.		AISO CHA	nge me nem i		109.	
Replace the contents of 78.5.2 with the following. "25GAUI, XLAUI, CAUI-10, and CAUI-4 may be used as phys sublayer service interface to separate functions between devic operate through these interfaces with the LPI timing paramete below.	es. The LPI signaling can	renumbe	er accordingly. ast Wake TL\	to 78.6.4 "DLL requirements' /   78.4   Support EEE Fast V		
If PMA Egress AUI Stop Enable (PEASE, see 83.3; MDIO reg any of the PMA sublayers, the PMA may stop signaling on the to conserve energy. If PEASE is asserted, the RS defers send deassertion of LPI by an additional time equal to Tw_sys_tx for 78-4 for each PMA with PEASE asserted (see 81.4.2).	AUI in the transmit direction ling data following					
If PMA Ingress AUI Stop Enable (PIASE, see 83.3; MDIO regi any of the PMA sublayers, the PMA may stop signaling on the to conserve energy. The receiver should negotiate an addition Tw_sys equal to Tw_sys_tx for the AUI as shown in Table 78- to be asserted before setting the PIASE bits."	AUI in the receive direction al time for the remote					

C/ 78 SC 78.6.3

CI 79	SC 79.3.1.4	P 63	L <b>30</b>	#	106
Ran, Adee		Intel			

Comment Type **T** Comment Status **D** This subclause title refers to "rules".

The only rule here is "An LLDPDU should contain no more than one MAC/PHY Configuration/Status TLV."

As written, this is not a rule but rather a recommendation, and an unclear one. There is no information to implementors on what to do if a received LLDPDU does contain more than one TLV of the same type. If two TLVs contain different information then there is ambiguity in the interpretation.

Looking at the meaning of this TLV, there is no sense in sending more than one, especially if the information in two TLVs within the same LLDPDU is different.

In the PICS this appears as an option (status "O"), which is even more confusing; "should" is a recommendation, not an option ("may" is an option).

It seems that this "should" should be a "shall" and the PICS status should be "M".

Same comment applies in multiple subclauses within clause 79.

SuggestedRemedy

Change "should" to "shall" here and in ths similar subclauses of clause 79, and update the PICS tables accordingly.

Optionally, add a note that previous revisions of this standard had a recommendation instead of a normative requirement (with editorial license).

Proposed Response Response Status W

PROPOSED REJECT.

Clause 79 defines seven 802.3 subtypes, one of which is deprecated. For all seven, there is a subclause that states that an LLDPDU "should" contain no more than one TLV of that type. All of them except for the EEE Fast Wake TLV has a corresponding PICS item that is "O".

IEEE Std 802.1AB-2016, 9.2.7.7.2 "General validation rules for all TLVs" contains the following note:

"NOTE-Usage rules for individual TLVs allow some TLVs to appear more than once in an LLDPDU. Duplicate TLVs result in any one of the values being placed in the MIB, can cause the discard stats to increment, and can cause the change marker for the MIB entry to change if any of the TLV copies change the value even if the value finally recorded is unchanged. The only thing guaranteed is that the MIB value is set to one (unspecified) of the TLV values, and if that value is different to what was previously in the MIB then the change marker is set."

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

Changing "should" to "shall" would invalidate some implementations that send more than one TLV of the same type in an LLDPDU.

C/ 80	SC 80.1.3	P 82	L <b>30</b>	# 107
Ran, Adee		Intel		

Comment Type T Comment Status D

The XLGMII and CGMII may also be implemented with data-path width other than 64 bits for implementation convenience. (Running 100 Gb/s over 64-bit wide bus is likely challenging and not a typical implementation).

The 25G introduction does not list the 25GMII as an exception (see 105.1.2). The 10G introduciton (44.1.4) does list XGMII, but only when it is a physical observable interface.

The remedy used in 802.3bs (116.1.2) may also be used here.

SuggestedRemedy

Append to list item a:

"Physical instantiations of these interfaces may use other data-path widths."

Alternatively, delete item a.

Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.

Use the same wording as for 116.1.3 (P802.3bs) and 131.1.2 (P802.3cd).

Add "Physical instantiations of this interface may use other data-path widths." to the end of item a).

C/ 80 SC 80.1.3 Page 21 of 41 9/7/2017 12:06:03 PM

bucket

C/ 81         SC 81.5.3.2         P 129         L 6         # 96           Hidaka, Yasuo         Fujitsu Lab. of Americ	C/         81         SC         81.5.3.4         P 130         L 22         # 97           Hidaka, Yasuo         Fujitsu Lab. of Americ
Comment Type E Comment Status D The status of PL1 is "RS:M" that is mandatory when option RS is supported, but RS is mandatory, not optional.	Comment Type T Comment Status D The status of FS1 is "XGE:M" that is mandatory when option XGE is supported, but option XGE is not defined.
Same for other PICS items in this clause. SuggestedRemedy	SuggestedRemedy Add an option XGE to 81.5.2.3 Major capabilities/options as follows:
Change "RS:M" to "M" in the status column, and remove "N/A []" in the support column. Apply the same change to PL1 through PL13, DS1 through DS4, FS3, FS5, FS7, FS13, FS15, FS16, LF1 through LF5. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. This comment and comment #97 are similar to comments #203 and #201 against P802.3bs D2.0 against the Clause 117 PICS which was derived from the Clause 81 PICS. Adopt a similar remedy as for the comments against Clause 117 above.	Item: XGE Feature: PHY support of either XLGMII or CGMII Subclause: 81.2, 81.3 Value/Comment: blank Status: O Support: Yes [] No [] Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. See response to comment #96
In 81.5.2.3, replace the rows for "*RS40" and "*RS100" with a single row for: "*MII", "Reconciliation Sublayer support of either XLGMII or CGMII", "81.2, 81.3", blank, "O", "Yes [ ] No [ ]"	C/         81         SC         81.5.3.7         P 132         L 8         # 6           Anslow, Pete         Ciena         Ciena<
In 81.5.3.1, replace the rows for "G3" and "G4" with a single row for: "G3", "Cumulative MAC Control, MAC and RS delay", "81.1.4", "Per Table 81-1", "MII:M", "Yes [] N/A []"	Comment Type T Comment Status D bucke For item LINT2 "CARRIER_STATUS response to Link Interruption" (as introduced by 802.3bq) the subclause is "81.4.2" but this does not mention "Link Interruption". However, 81.1.7.3 does contain discussion of CARRIER_STATUS in relation to Link Interruption.
In 81.5.3.2 to 81.5.3.5, replace "RS:" with "MII:" In 81.5.3.4 replace "XGE:" with "MII:"	SuggestedRemedy Change "81.4.2" to "81.1.7.3"
	Proposed Response Response Status W PROPOSED ACCEPT.

C/ 81 SC 81.5.3.7

C/         82         SC         82.2.3.6         P 143         L 38         # 37           Trowbridge, Steve         Nokia	<i>Cl</i> <b>82</b> SC <b>82.2.3.8</b> Hidaka, Yasuo	P144 L13 Fujitsu Lab. of Americ	# 98
Comment Type <b>T</b> Comment Status <b>D</b> Since the signal ordered set is reserved for INCITS T11 Fibre Channel use, it is presumably an invalid block if received on an Ethernet PHY (and there is nothing in the standard that would tell you what to do with this block if it were valid). However, the wording of 82.2.3.5 (c) does not label it as an invalid block since it is a control code that is listed in	Comment Type <b>T</b> Comment S The phrase "within any character of th any character" implicates "on any bit o SuggestedRemedy	Status <b>D</b> ne block" is misleading or inco of character".	
Table 82-1 SuggestedRemedy	Change "within any character of the b Proposed Response Response S	2	nin the block .
Change footnote (a) of Table 82-1 to read "INCITS T11 Fibre Channel uses O code 0x5C for the Signal ordered set. OIF uses O code 0x5 for the FlexE [B58] ordered set". Remove the last row of Table 82-1 and footnote b. Proposed Response Response Status W	PROPOSED ACCEPT IN PRINCIPLE Change: "within any character of the block" to: "on any character of the block".		
PROPOSED ACCEPT IN PRINCIPLE.	C/ 82 SC 82.3.1	P161 L45	# 29
Change footnote a of Table 82-1 to read "INCITS T11 Fibre Channel uses O code 0xF for the signal ordered set. OIF uses O code 0x5 for the FlexE [B58] ordered set."	Anslow, Pete	Ciena	
In 82.2.3.1 change: "The control characters, /Q/ and /Fsig/, for ordered sets are labeled as O0 since they are only valid on the first octet of the XLGMII/CGMII." to: "The control character /Q/ for a sequence ordered set is labeled as O0 since it is only valid on the first octet of the XLGMII/CGMII." In 82.2.3.9: Delete "An additional ordered set, the signal ordered set, has been reserved and it begins with another control code." Change: "The ordered set control characters (/Q/ and /Fsig/) indicate the start of an	The title of 82.3.1 "PMD MDIO functio Also, the last sentence of 82.3.1 (Pag PMD status variables is shown in Tab variables to PCS status variables is sh SuggestedRemedy Change "PMD" to "PCS" in the title of Proposed Response PROPOSED ACCEPT.	e 162, line 1) "Mapping of MI le 82-11." should be "Mappin hown in Table 82-11." 82.3.1 and in the last senten	DIO status variables to g of MDIO status ce of 82.3.1.
ordered set." to: "The ordered set control character /Q/ indicates the start of an ordered set."	C/ 82 SC 82.3.1 Anslow, Pete	P162         L 21           Ciena         L 21	# 26
Change "See Table 82-1 for the mappings." to "See Table 82-1 for the mapping." Delete "Signal ordered sets are not deleted for clock compensation."	Comment Type E Comment S The title of Table 82-11 "MDIO/PMD s variable mapping"		<i>bucket</i> uld be "MDIO/PCS status
	SuggestedRemedy Change "MDIO/PMD" to "MDIO/PCS"		
	Proposed Response Response S PROPOSED ACCEPT.	tatus W	
TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G		C/ 82	Page 23 of 41

C/ 82 SC 82.3.1

C/ 82 SC 82.7.3	P 173	L <b>13</b>	# 99	C/ 83D SC 83D.3.3.2		L <b>46</b>	# 101
XLGMII logical interface.	Fujitsu Lab. of <i>Comment Status</i> <b>D</b> gical interface, not XLGMII		<i>bucket</i> e, because XGE40 is	variables "Requested_	Fujitsu Lab. c <i>Comment Status</i> <b>D</b> ables as "Request_eq_cm1" eq_cm1" and "Requested_eq 1 and Local eq c1, respecti	and "Request_e q_c1" that indica	<i>bucket</i> eq_c1", but there are ite the "requested"
PROPOSED ACCEPT.	Response Status W		// []		cm1 and Request_eq_c1 ind nd Requested_eq_c1 indicat <i>Response Status</i> <b>W</b>		
CI 82 SC 82.7.4 Anslow, Pete Comment Type E	P 174 Ciena Comment Status D	L 8	# 127	C/ 83D SC 83D.4 Dawe, Piers	P <b>620</b> Mellanox Tec	L <b>29</b>	# 137
column. Same issue in 79.5.6, 83. 83A.7, 83D.6.4, 126.12.3 SuggestedRemedy In 82.7.4, 79.5.6, 83.7, 8 83D.6.4, and 126.12.3 for "M" change the Support e "O" change the Support e "Something:M" change th "Something:O" change th	ntry to "Yes [ ]"	9.11.4.3, 92.14, 1.4.3, 92.14, 93. N/A []"	93.11.3, 94.6.4.2,	because it lists the para Table 83D-6Channel Table 93-8COM para Table 93A-1COM para Table 110-11COM para Table 111-8COM para SuggestedRemedy Change Table 83D-6COM p or change three to Cha Operating Margin para	ameters irameter values ameter values Channel Operating Margin pa parameter values innel Operating Margin parar meters	's OK): s arameters	
SuggestedRemedy Change "Ln9_PRBS_Rx_	P 192 Ciena Comment Status D or_counter" should be "Ln9 test_error_counter" to "Ln9 Response Status W			Proposed Response PROPOSED ACCEPT Change the title of Tab parameter values".	Response Status W IN PRINCIPLE. le 83D-6 from "Channel Ope	rating Margin pa	arameters" to "COM

CI 83D SC 83D.4

C/ 83D SC 83D.4 Hidaka, Yasuo	Р <b>620</b> Fujitsu Lab. o	L <b>41</b> f Americ	# 102	C/     85     SC     85.8.3.3     P 233     L 1     # 109       Ran, Adee     Intel
,	omment Status D	Americ	bucke	Comment Type T Comment Status D bucket
C_b is not a COM paramete SuggestedRemedy			bucke	The text here defines "The normalized amplitude" of the three coefficients, but subclause 85.8.3.3.1 refers to the coefficients themselves (not normalized amplitudes), while 85.8.3.3.2 refers to normalized amplitudes, and 85.8.3.3.3 again does not. Since these four
Change "C_b" to "C_p".	<b>a  </b>			subclauses all discuss the same coefficients, this can be quite confusing for the reader.
PROPOSED ACCEPT IN PI			e fer um bala Od en	There is no reason to call this a normalized amplitude of the coefficient; it is really the coefficient value. (a coefficient has no amplitude, and "normalized amplitude" is used for very different things elsewhere).
Implement suggested remea Cb, Ro (should be R0), and		e correct formatir	ig for symbols Ca, zp,	This comment also applies in 92.8.3.5.1 through 92.8.3.5.4.
From the IEEE-SA Standard	s Style Manual 15 3			SuggestedRemedy
"Quantity symbols (including superscripts representing sy	the symbols for physic			Change "The normalized amplitude of coefficient c(-1) is the value of" to "Coefficient c(-1) is defined as the value of". Change similarly for the other coefficients.
set in italic text. Unit symbols, mathematical		al functions, abb	reviations, and	In 85.8.3.3.2, delete the 3 instances of "the normalized amplitude of".
numerals are set in upright (	,			Apply similarly in clause 92.
85 SC 85.8.3.3	P 232	L 53	# 108	Proposed Response Response Status W
an, Adee	Intel			PROPOSED ACCEPT IN PRINCIPLE.
Comment Type <b>T</b> Co "must" here should really be SuggestedRemedy Change to "shall".	omment Status <b>D</b> a "shall", it is not an un	avoidable situati	bucke on.	The coefficients are in fact normalized but this distinction has little value in the interpretation and application of the standard. For the sake of consistency, make the following changes.
0	sponse Status W			Change the last paragraph of 85.8.3.3 to the following. "Coefficient c(-1) is defined to be the value of qi at time t0 + (Dp - 1) UI. Coefficient c(0) is defined to be the value of qi at time t0 + Dp UI. Coefficient c(1) is defined to be the value of qi at time t0 + (Dp + 1) UI."
				In the first paragraph of 85.8.3.3.2, remove two instances of "the normalized amplitude of coefficient".
				In the first sentence of the second paragraph of 85.8.3.3.2, remove "the normalized amplitude of".
				In 92.8.3.5.1, change all instances of "normalized coefficients" to "coefficients" and all instances of "normalized transmit equalizer coefficients" to "transmit equalizer coefficients".
				In the first paragraph of 92.8.3.5.4, remove two instances of "the normalized amplitude of coefficient".
				In the first sentence of the second paragraph of 92.8.3.5.4, remove "the normalized amplitude of".
TYPE: TR/technical required EF COMMENT STATUS: D/dispatch SORT ORDER: Clause, Subclau	ned A/accepted R/reje			G/general         C/         85         Page 25 of 41           written C/closed U/unsatisfied Z/withdrawn         SC         85.8.3.3         9/7/2017         12:06:04

<i>Cl</i> <b>85</b> Ran, Adee	SC 85.8.3.3.3	3 P 233 Intel	L <b>27</b>	# 110	<i>Cl</i> <b>85</b> Ran, Adee	SC 85.8.3	.4	P 235 Intel	L <b>34</b>	# 112
Comment 1		Comment Status D		bucket	Comment 1			ent Status D		bucket
voltage	" and "maximun	ns in this clause on the "mini n steady state differential ou						ting no white space other equations in		loss(f)" and incorrect
are not	defined.				Suggestedl	Remedy				
		ameter is "Transmitter DC a			Reform	at to create	correct tabula	ation. Apply in all e	quations in this c	lause.
voltage	with a long run	85.8.3.3, paragraph after ite is governed by $c(0)+c(-1)+c$ that in clause $85$ (unlike cla	(1) and in fact the		Proposed F PROPO	esponse SED ACCE	,	nse Status W		
∆s stat	ed this is an as	pect of the implemented coe	officient range Bu	t the limits are also	C/ 85	SC 85.8.4	.2.1	P 240	L 9	# 111
		s of all coefficients (e.g. their			Ran, Adee			Intel		
		blies to 92.8.3.5.5 (where the in preset state) and 93.8.1.5			Comment 7 Typo in	<i>ype</i> <b>E</b> figure text:		ent Status D		bucket
		is based on the text in clau	se 136.		Suggestedl	Remedy e to "PGC"				
Suggestedl	Remedy				U		-	0		
	on the coefficie	nt range or restrictions place ge or the maximum peak-to-			Proposed F PROPO	SED ACCE		nse Status W		
unerer		ge of the maximum peak-to-		alput voltage	C/ 86	SC 86.5.7		P 272	L <b>44</b>	# 139
To				unte ll	Dawe, Piers	5		Mellanox Tec	hnologies	
based	on the range of	that coefficient or the comb	ination of coefficie	ents.	Comment 7	ype E	Comm	ent Status D		
Alterna peak-to	tively, change to -peak differentia	o "based on the coefficient ra al output voltage".	ange or restriction	s on the maximum		n names do			ee line 42), altho	ugh functional variable
Apply a	llso in clauses 9	2 and 93.			Suggestedl	Remedy				
Proposed F	Response	Response Status W								gister names) must
PROPO	DSED ACCEPT	IN PRINCIPLE.			global t	ransmit disa	ble function".		o "The PMD trans	unction" to "The PMD smit disable function". 2.5.6.
		raph of 85.8.3.3.3, 92.8.3.5.5 ment" or "decrement" reque			Proposed F	•		nse Status W		
coeffici	ent, the coefficie	ent will reach a lower or uppoint ination of coefficients."				•	PT IN PRINC			
coeme					See res	ponse to co	mment #142			
				T/technical E/editorial G/				C/ 8		Page 26 of 41

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

CI 86 SC 86.5.7 Page 26 of 41 9/7/2017 12:06:04 PM

C/ 86 SC 86.5.7 P272 L 50 # 140	Cl 86 SC 86.5.8 P272 L 50 # 141				
Dawe, Piers Mellanox Technologies	Dawe, Piers Mellanox Technologies				
Comment Type E Comment Status D bucket	Comment Type E Comment Status D bucket				
the PMD may set the PMD_global_transmit_disable to one	Function names don't have underscores like this (see line 1), although functional variable				
SuggestedRemedy	names do. It's not obvious to me that we have to define the function separately for each lane - it's not done in the subclause heading (line 1)				
the PMD may set the PMD_global_transmit_disable variable to one or	SuggestedRemedy				
the PMD may set PMD_global_transmit_disable to one (as in 92.7.6). Similarly in 87.5.7, 88.5.7, 89.5.6, 95.5.7, 112.5.6, 86.5.8, 88.5.8, 95.5.8.	If we don't, change "The PMD_transmit_disable_i function (where i represents the lane number in the range 0:n-1) is" to "The PMD lane-by-lane transmit disable function is". Insert "(where i represents the lane number in the range 0:n-1)" into the next sentence.				
Proposed Response Response Status W	Proposed Response Response Status W				
PROPOSED ACCEPT IN PRINCIPLE.	PROPOSED ACCEPT IN PRINCIPLE.				
In 86.5.7, 87.5.7, 88.5.7, 89.5.6, 95.5.7, and 112.5.6, change:	PROPOSED ACCEPT IN PRINCIPLE.				
"set the PMD_global_transmit_disable to one" to: "set the PMD_global_transmit_disable variable to one" In 53.4.7, change:	In 84.7.7, 85.7.7, 86.5.8, 87.5.8, 88.5.8, and 95.5.8 make the following changes: Change "The PMD_transmit_disable_i" to "The PMD lane-by-lane transmit disable" Move the phrase in brackets from the first sentence to requirement a) after "PMD transmit disable i variable"				
"set the Global_PMD_transmit_disable to one" to: "set the Global_PMD_transmit_disable variable to one"	 In the last sentence of 86.5.8, 87.5.8, 88.5.8, and 95.5.8 and also in 86.11.4.2 SM3 change				
In 84.7.7, 85.7.7, 86.5.8, 87.5.8, 88.5.8, 92.7.7, 93.7.7, 94.3.6.7, 95.5.8, change:	"PMD_transmit_disable_i function" to "PMD lane-by-lane transmit disable function"				
"set each PMD_transmit_disable_i to one" to:	C/ 86 SC 86.8.4.1 P282 L 6 # 145				
"set each PMD_transmit_disable_i variable to one"	Dawe, Piers Mellanox Technologies				
	Comment Type <b>T</b> Comment Status <b>D</b> IEC 61280-1-3 (2010) is sufficient and we should use only international standards where				
	they are available and adequate.				
	they are available and adequate. SuggestedRemedy				
	SuggestedRemedy Change TIA-455-127-A to IEC 61280-1-3 (and in the PICS 86.11.4.4). Similarly in other				
	SuggestedRemedy Change TIA-455-127-A to IEC 61280-1-3 (and in the PICS 86.11.4.4). Similarly in other maintained SMF clauses such as 38.				

C/ 86 SC 86.8.4.1

CI 87	SC 87.8.3	P 307	L 13	#	128
Dawe, Piers		Mellanox	Technologies		

#### Comment Type T Comment Status D

IEC 61280-1-3 (2010) is sufficient and we should use only international standards where they are available and adequate. IEC 61280-1-3 (2010) has a measurement definition for SMSR, and anyway, "TIA/EIA-455-127-A" would be "TIA-455-127-A".

### SuggestedRemedy

Delete "TIA/EIA-455-127-A or" here (and TIA-455-127-A in the PICS 87.13.4.5). Change subclause title from "Wavelength" to "Wavelength and sidemode suppression ratio (SMSR)". Add new second sentence "The sidemode suppression ratio (SMSR) of each optical lane shall be within the limits given in Table 87-7 if measured according to IEC 61280-1-3." Add PICS if wished (redundant with 87.13.4.3, 87.13.4.4). Similarly in clauses 88, 89 and other maintained clauses with SMSR specs such as 52.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

The methods defined for measuring RMS spectral width in 7.2 of TIA-455-127-A-2006 and 8.5 of IEC 61280-1-3:2010 are essentially the same.

The method defined for measuring "Center (Mean) Wavelength" in 7.1 of TIA-455-127-A-2006 is essentially the same as that for measuring "Centroidal wavelength" in 8.3 of IEC 61280-1-3:2010. However, IEC 61280-1-3:2010 also contains 8.2 "Centre wavelength", which has two subclauses 8.2.2 "Continuous LED spectra" and 8.2.2 "Discrete MLM spectra". The method for measuring center wavelength for MLM lasers in 8.2.2 is different from that for measuring center wavelength in the TIA document and involves drawing lines between the tips of adjacent modes and another line 3 dB below the top of the largest mode and finding the wavelength mid way between the furthest points where these lines cross each other.

There is a note at the end of 1.3 that says "NOTE-Local and national standards such as those supported by ANSI, EIA, MIL, NFPA, and UL are not a formal part of this standard except where no international standard equivalent exists."

Also, although several optical PMD clauses contain requirements for SMSR, none of them define it or state how to measure it.

In 38.6.1, 38.12.4.5 OR2, 58.7.2, 58.10.3.5 OM3, 59.7.2, 59.10.3.5 OM3, 86.8.4.1, and 86.11.4.4 SOM2:

change "TIA-455-127-A" to "the centroidal wavelength and RMS spectral width definitions in IEC 61280-1-3"  $\,$ 

In 86.8.4.1, change "The wavelength of each optical lane" to "The wavelength and spectral width of each optical lane"  $\,$ 

In 86.11.4.4 SOM2 change "Center wavelength" to "Center wavelength and spectral width"

Since the center wavelength measurement method in TIA-455-127-A-2006 is contained in IEC 61280-1-3:2010, in 87.8.3, 88.8.2, 88.12.4.5 COM2, 89.7.3, 95.8.2, 95.12.4.4 COM2,

112.7.2, and 112.11.4.4 COM2: delete "TIA/EIA-455-127-A or"

In 87.13.4.5 XLOM2 and 89.11.4.4 XLOM2: delete "TIA-455-127-A or"

#### In 52.9.2

change the subclause title to "Center wavelength, spectral width, and side mode suppression ratio (SMSR) measurements"

change "The center wavelength and spectral width (RMS) shall" to "The center wavelength, spectral width (RMS), and SMSR shall"

change "TIA-455-127-A" to "the centroidal wavelength, RMS spectral width, and SMSR definitions in IEC 61280-1-3"

Replace the em-dash with a cross-reference to this subclause from the "Test-pattern definitions and related subclauses" table SMSR row, Related subclause column.

### In 52.15.3.9 OM2

change "Center wavelength and spectral width measurement" to "Center wavelength, spectral width, and SMSR measurement

change "TIA-455-127-A" to "the centroidal wavelength, RMS spectral width, and SMSR definitions in IEC 61280-1-3"

#### In 60.9.2

change the subclause title to "Wavelength, spectral width, and side mode suppression ratio (SMSR) measurements"

change "The wavelength and spectral width (RMS) shall meet specifications according to TIA-455-127-A" to "The wavelength, spectral width (RMS), and SMSR shall meet specifications according to the centroidal wavelength, RMS spectral width, and SMSR definitions in IEC 61280-1-3"

#### In 60.12.4.10 OM2 and 75.10.4.17 OM2

change "Wavelength and spectral width" to "Wavelength, spectral width, and SMSR" change "TIA-455-127-A" to "the centroidal wavelength, RMS spectral width, and SMSR definitions in IEC 61280-1-3"

### ln 75.7.4

change the subclause title to "Wavelength, spectral width, and side mode suppression ratio (SMSR) measurement"

change "The center wavelength and spectral width (RMS) shall meet the specifications when measured according to TIA-455-127-A" to "The center wavelength, spectral width (RMS), and SMSR shall meet the specifications when measured according to the centroidal wavelength, RMS spectral width, and SMSR definitions in IEC 61280-1-3" Replace the em-dash with a cross-reference to this subclause from Table 75-12 "Test-patterns" SMSR row, Related subclause column.

#### In 87.8.3, 88.8.2, 89.7.3

change the subclause title to "Wavelength and side mode suppression ratio (SMSR)" in the text change "wavelength" to "wavelength and SMSR" Replace the em-dash with a cross-reference to this subclause from the "Test-pattern

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	C/ 87	Page 28 of 41
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	SC 87.8.3	9/7/2017 12:06:04 PM
SORT ORDER: Clause, Subclause, page, line		

definitions and related sub In 87.13.4.5 XLOM2, 88.1 change "Center waveleng	2.4.5 COM2, and 89.11.4.	4 XLOM2:		C/ 91 SC 91.5.3.3 Slavick, Jeff Comment Type E	P 387 Broadcom Ltd Comment Status D	L <b>33</b>	# 73	
C/ <b>91</b> SC <b>91.5.2.6</b> Hidaka, Yasuo	Р <b>383</b> Fujitsu Lab. of	L <b>8</b> Americ	# 100		l sub-heading optional features e. Currently the RS-FEC has			
The alignment marker pay lanes "1, 5, 9, 13, and 17" <i>SuggestedRemedy</i> Change "0, 5, 9, 13, and 1	and not PCS lanes "0, 5, 6" to "1, 5, 9, 13, and 17". Response Status <b>W</b> 32 is: he fixed bytes of the align fixed bytes for the align the fixed bytes for the align s BIP or CD are unchange receiver only needs to sea C lane. When the optional ly needs to search for the	9, 13, and 16" nent markers nt marker corn ment markers d. This proces rch for the fixe EEE deep sle	corresponding to PCS responding to PCS lane corresponding to PCS corresponding to PCS ss simplifies receiver ed bytes corresponding eep capability is	Indication (optional) Move the paragraph sta 3rd paragraph of 91.5.3 Place the paragraph be perform error detection Correction (optional) Update the references 93.8.2.3, 45.2.1.106.2, Proposed Response PROPOSED REJECT. The P802.3bj project de in a single subclause, in Changing this and crea	<ul> <li>Place the last 5 paragraphs of 91.5.3.3 under a heading of 91.5.3.3.2 Bypass Error Indication (optional)</li> <li>Move the paragraph starting with "The Reed-Solomon decoder indicates errors" to be t 3rd paragraph of 91.5.3.3</li> <li>Place the paragraph beginning with "The Reed-Solomon decoder may provide the option perform error detection" and the NOTE under a new sub-heading 91.5.3.3.1 Bypass Err Correction (optional)</li> <li>Update the references in 91.6.1, 91.6.2, 91.6.3, 91.6.4, 91.6.5, 91.7.3, 91.7.4.2, 93.1, 93.8.2.3, 45.2.1.106.2, 45.2.1.106.3, 45.2.1.107.7, 45.2.1.107.8, 45.2.1.107.9</li> <li>Proposed Response Response Status W</li> <li>PROPOSED REJECT.</li> <li>The P802.3bj project decided to place all of the text describing the Reed-Solomon decoder in a single subclause, including the optional features.</li> <li>Changing this and creating a new subclause for each optional feature would cause a la number of changes to the draft without any significant improvement in the clarity of the</li> </ul>			
<b>)</b>	P 384 Intel Comment Status D	L <b>1</b>	# 113 bucket					
Equation is truncated from SuggestedRemedy Fix it Proposed Response PROPOSED ACCEPT.	a above Response Status W							

C/ 91 SC 91.5.3.3

as a one, bit the optional onal states a <b>92.7.8</b> T not a PMD f in this case use may be o 2.3cd it was s are conside use.	states in Figure ire not impleme <i>Comment Sta</i> function (as note , the wording "a considered out o decided not to	es that the RS 91-8. When r nted. <b>P416</b> tel tus <b>D</b> ed in the text). djacent PMA" of place. There have a loopba they can be m	L 32 It may be consi is inappropriate is no loopback ck subclause in loved to the app	bit 1.201.7 indicates # 114 bucket	
T not a PMD f in this case use may be o 2.3cd it was s are conside use.	In Comment Sta function (as note , the wording "a considered out o decided not to ered important,	tel tus <b>D</b> ed in the text). djacent PMA" of place. There have a loopba they can be m	It may be consi is inappropriate e is no loopback ck subclause in noved to the app	bucket sidered a PHY e. < subclause in optical n the electrical PMDs.	
not a PMD f in this case use may be c 2.3cd it was are conside use.	Comment Sta function (as note , the wording "a considered out o decided not to ered important,	etus <b>D</b> ed in the text). djacent PMA" of place. There have a loopba they can be m	is inappropriate e is no loopback ck subclause in loved to the app	eidered a PHY e. A subclause in optical In the electrical PMDs.	
not a PMD f in this case use may be c 2.3cd it was are conside use.	function (as note , the wording "a considered out o decided not to ered important,	ed in the text). djacent PMA" of place. There have a loopba they can be m	is inappropriate e is no loopback ck subclause in loved to the app	eidered a PHY e. A subclause in optical In the electrical PMDs.	
in this case use may be o 2.3cd it was s are conside use.	, the wording "a considered out o decided not to ered important,	djacent PMA" of place. There have a loopba they can be m	is inappropriate e is no loopback ck subclause in loved to the app	e. < subclause in optical n the electrical PMDs.	
ise may be o 2.3cd it was s are conside use.	considered out o decided not to ered important,	of place. There have a loopba they can be m	e is no loopback ck subclause in noved to the app	subclause in optical the electrical PMDs.	
2.3cd it was s are conside use.	decided not to ered important,	have a loopba they can be m	ick subclause in noved to the app	n the electrical PMDs.	
2.3cd it was s are conside use.	decided not to ered important,	have a loopba they can be m	ick subclause in noved to the app	n the electrical PMDs.	
use.	• •	,		propriate subclause in	
	ubclauses of 93,	, 110, and 111			
in similar su	ubclauses of 93,	, 110, and 111			
SuggestedRemedy					
acent PMA"	to "PMA".				
Consider deleting this subclause and moving the notes to the appropriate PMA clauses.					
Proposed Response Response Status W PROPOSED REJECT.					
REJECT.					
			(PMD) sublayer		
		an "adjacent" I	PMA (in that you	u cannot connect the	
rectly to the	PMD).				
orrect and p	erhaps helpful t	o a user of the	standard lookir	ng for a "PMD	
nction".					

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

SC 92.7.8

	SC 92.8.3	P <b>419</b>	L <b>25</b>	# 138	C/ 92	SC 92.8.4.4	P <b>428</b>	L 37	# 134
Dawe, Piers		Mellanox Tec	hnologies		Dawe, Piers		Mellanox Tec	hnologies	
Comment Ty	pe E	Comment Status D		bucket	Comment Ty	pe T	Comment Status D		bucke
		easier to use (finding spec i			Should s	ome of the im	provements that 802.3by ma	de be taken back	k to clauses 92 and 93?
	DP, SMSR and	tables and in subclause hea so on.	aungs, as the o	Dical clauses do loi	SuggestedRe	emedy			
SuggestedRe	emedy								
Consider	<sup>-</sup> changing	in tables 93-4, 83D-1 and 9	4-13.		Proposed Re PROPOS	SED REJECT	Response Status W		
to 92.8.3	.7 Signal-to-noi	put noise and distortion se-and-distortion ratio (SNE s in the contents: similarly fo		4.3.12.7.			remedy. The comment resol vould satisfy the commenter.		ot understand the
Proposed Re	esponse	Response Status W			C/ 92	SC 92.8.4.4	P <b>429</b>	L 17	# 135
PROPOS	SED ACCEPT I	N PRINCIPLE.			Dawe, Piers		Mellanox Tec	hnologies	
Change f	the heading of s	se-and-distortion ratio, SNDI 92.8.3.7, 93.8.1.6, and 94.3. mitter signal-to-noise-and-d	.12.7 from "Tran		given in <sup>.</sup> target va	Table 92-8 wh lues for setting	eays " should be set to the set calculated". So these tab g up the test, like most of the ny lower value) because ther	le entries for CO other entries in t	M are reference or
		-	1.4	# 64		good it is.	,		uld be made to fail,
92	SC 92.8.3.8.2	P 427	L <b>1</b>	# 21		0			uld be made to fail,
7 <b>92</b> nslow, Pete	SC 92.8.3.8.2	Р <b>427</b> Сіепа	L <b>1</b>		however SuggestedRe	emedy	er "COM". Add it after "RS-f	,	
2/ <b>92</b> Inslow, Pete Comment Ty	SC 92.8.3.8.2	P <b>427</b> Ciena Comment Status D		bucket	however SuggestedRe	e <i>medy</i> max)" from af	ter "COM". Add it after "RS-f Response Status W	,	
C/ <b>92</b> Anslow, Pete Comment Ty Equation	SC 92.8.3.8.2 pe E s 92-12 to 92-1	Р <b>427</b> Сіепа	lot as a multiply	bucket	however SuggestedRe Delete "( Proposed Re	emedy max)" from afi esponse		,	
Cl <b>92</b> Anslow, Pete Comment Ty, Equation accordar SuggestedRe	SC 92.8.3.8.2 pe E s 92-12 to 92-1 nce with the IEE	P 427 Ciena <i>Comment Status</i> D 6, 92-18, and 92-19 use a d EE-SA Standards Style Man	lot as a multiply	bucket	however SuggestedRe Delete "( Proposed Re PROPOS	emedy max)" from af esponse SED ACCEPT	Response Status W IN PRINCIPLE. ted remedy. In addition, add	EC symbol error	r ratio"

C/ 92 SC 92.8.4.4 Page 31 of 41 9/7/2017 12:06:04 PM

C/ 92 SC 92.10.5	P 435	L <b>48</b>	# 22	CI 92	SC 92.14.4	P 449	L	# 32
Anslow, Pete	Ciena			Klempa, Mic	nael	UNH IOL		
Comment Type <b>E</b> "." missing at the end or	Comment Status <b>D</b> f the first sentence of 92.10.5		bucket		, in 92.8.3.7 sta	Comment Status <b>D</b> tes "SNDR shall be greater th		
SuggestedRemedy Add the "."				inconsist	ent with other	S "regardless of equalizer sett transmitter tests such as EO r setting" in the text as well a	J, EBUJ and E	
Proposed Response PROPOSED ACCEPT.	Response Status W					ate "Greater than or equal to	26 dB regardle	ss of transmit
C/ 92 SC 92.10.7.1 Ran, Adee	P <b>437</b> Intel	L <b>1</b>	# 115	Proposed Re PROPO	sponse SED ACCEPT	Response Status W		
is no cross reference.	Comment Status <b>D</b> he cascade() function, which is	only defined in	<i>bucket</i> n annex 93A, but there	[Editor's	note: Change	d subclause to 92.14.4. The F	PICS item in qu	estion is TC23.]
Comment also applies t	10 92.10.7.2.							
SuggestedRemedy Append to the first para	graph of 92.10.7:							
"The channel path calcu	ulations use the function casca	de() defined in	93A.1.2.1."					
Alternatively, add a defi following equations 92-3	nition of cascade() (refernce to 31, 92-32, and 92-33.	93A.1.2.1) in t	he "where" text					
Proposed Response	Response Status W							
PROPOSED ACCEPT	IN PRINCIPLE.							
	nce to the end of the first paragons include the function casca							

C/ 92 SC 92.14.4

CI 93	SC 93.8.2.3	P 474	L <b>41</b>	#	136
Dawe, Piers	;	Mellanox	Technologies		

Comment Type T Comment Status D

ritt\_target

The text in 93C.2 items 7 and 8 say "determine the receiver noise level, sigma\_bn, required to achieve the COM value specified in the PMD clause that invokes this method" and "adjust it so that it equals sigma\_bn determined in step 7.". So these table entries for COM are reference or target values for setting up the test. They can't be maxima (allowing any lower value) because then any receiver could be made to fail, however good it is. Table 83D-5 has got it right.

### SuggestedRemedy

Show that they are not maxima, e.g. by straddling the min and max columns or using a "Target" columns. Similarly for tables 110-6, 110-7, 110-8, 111-4, 111-5, 111-6 and 94-15.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

The addition of a "target" column would increase the table size and this is not desirable for the larger tables (e.g., Table 93-6). Therefore, the option of "straddling" the "Min" and "Max" columns is preferred even though this will be inconsistent with the format of Table 83D-5.

In Table 93-6, Table 111-4, and Table 111-5, straddle the "Min" and "Max" columns for the "COM" row and place the contents of the "Max" column into the straddled column. Add the following table footnote to the "COM" parameter label.

"The COM value is the target for the receiver noise level calibration defined in 93C.2 step 7. The channel noise voltage applied in 93C.2 step 8 should be as close as practical to the value needed to produce the target COM. Higher noise voltage values may be used to demonstrate margin to the specification but are not required for compliance."

The format of Table 94-15 must be modified prior to straddling the "Min" and "Max" columns for COM.

1. Remove "Test channel parameters:" line and define "COM, .", "Insertion loss .", and "RSS DFE4" as separate rows.

Organize "a0", "a1", "a2", "a3" into its own row inserting the line "Fitted insertion loss coefficients:" at the top. Move table footnote "c" to this new line.
 Add ruling to visually separate the rows.

These changes are expected to make the table easier to parse when the "Min" and "Max" columns of the "COM" row are straddled. Apply the same changes to the modified table that were specified for Table 93-6 et al.

In Table 110-6, Table 110-7, and Table 110-8, straddle the "Min" and "Max" columns for the "COM" row and place the contents of the "Max" column into the straddled column. Add the following table footnote to the "COM" parameter label.

"The COM value is the target value for the SNR\_TX calibration defined in 110.8.4.2.3 item

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

f). The SNR\_TX value measured at the Tx test reference should be as close as practical to the value needed to produce the target COM. Lower SNR\_TX values may be used to demonstrate margin to the specification but are not required for compliance."

C/ 93A	SC 93A.1	P 687	L <b>32</b>	# 132
Dawe, Piers	8	Mellanox Tech	nologies	

Comment Type T Comment Status D

The parameter called "Continuous time filter, zero frequency  $f_z$ " causes confusion because it isn't a zero frequency except when  $g_DC$  is zero, when it isn't interesting. Unlike "Continuous time filter, pole frequencies  $fp_1 fp_2$ " which really are pole frequencies. See Eq 93A-22. Further, the value of  $f_z$  in each COM table is the same as  $f_p1$  in the same table.

SuggestedRemedy

If we might use  $f_z$  in a future specification, rename it to "Continuous time filter, zero parameter  $f_z$ 0" in each COM table and Eq 93A-22. If that is not likely, remove the rows in the COM tables, and change  $f_z$  to  $f_p$ 1 in Eq 93A-22.

Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.

It is true that, based on Equation (93A-22), the effective zero frequency is not  $f_z$  but rather  $f_z^{*10}(g_DC/20)$ .

It is impossible to know whether or not  $f_z$  will equal  $f_p1$  for all future specifications. Rather than set  $f_z$  to  $f_p1$  and impose this as a constraint, change the name of  $f_z$  to be "Continuous time filter, zero frequency for  $g_DC = 0$ " in Table 93-8, Table 94-17, Table 83D-6, Table 93A-1, Table 110-11, and Table 111-8.

> C/ 93A SC 93A.1

Page 33 of 41 9/7/2017 12:06:04 PM

CI 93A	SC 93A.2	P 696	L 35	#	116
Ran, Adee		Intel			

#### Comment Type T Comment Status D

The parameter beta was added to equation 93A-46 to fix an error (missing factor 2) in the original equation. With the current quation, correct accounting for transition time requires that beta be 2 and this should be stated explicitly by every clause that invokes COM.

This equation is used with the default beta=1 only in two cases - when 93C.2 is invoked by either 93.8.2 or 83D.3.3.1, which do not state a value for beta This creates an incorrect calibration of the text, that would better be fixed.

In all other cases, beta is specified as 2.

Even if we prefer not to change existing clauses, It would be better to use a correction factor in the exception, not in the normal case.

#### SuggestedRemedy

[Option 1]

If we agree to apply a change that would fix the incorrect calculation in clause 93 and annex 83D:

In equation 93A-46, change beta to 2, and in the paragraph above it delete "beta is 1 unless defined otherwise for the Physical Layer specification that invokes this method"

Remove beta from all references to this equation (in clauses 110, 111, and in clauses of new amendments that are added to this revision).

[Option 2]

If we keep the clause 93 and annex 83D calculation unchanged:

Change "beta is 1 unless defined otherwise for the Physical Layer specification that invokes this method" to "beta is 2 unless defined otherwise for the Physical Layer specification that invokes this method", and add exceptions to use beta=1 in 83D.3.3.1 and in 93.8.2.3.

Remove beta from the other references to this equation (in clauses 110, 111, and in clauses of new amendments that are added to this revision).

#### Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Equation (93A-46) incorrect in IEEE Std 802.3-2015. The amendment IEEE Std 802.3by-2016 added the term <br/>
beta> to correct this error without altering the Clause 92, Clause 93, or Annex 83D requirements. For these clauses, Equation (93A-46) is only used for the calibration of the broadband noise amplitude applied during interference tolerance testing. For this application, setting <br/>
beta> = 1 is equivalent to reducing the rise/fall time parameter T\_r by a factor of 1/sqrt(2). This more likely than not results in a higher calibrated broadband noise amplitude. Therefore, it is likely that correcting the equation will have no impact on the compliance of devices deployed in the field.

In 93A.2, remove the following phrase from the end of the fifth paragraph. "...and <beta> is 1 unless defined otherwise for the Physical Layer specification that invokes this method."

In Equation (93A-46), change "<beta>" to "2".

Equation (92-22) copied the original Equation (93A-46) and inherited the same error. Change Equation (92-22) to add "2" between the minus sign and the open bracket of the squared term (i.e., "exp(-2(<pi>f.").

In Section 7, 110.8.4.2.3, remove the phrase "<beta> is 2 and" from the second sentence of item d).

In Section 7, 110.10.7, remove the phrase "and <beta> is 2" from the second sentence of the first paragraph.

In Section 7, 111.8.3.1, change the second sentence of item c) to the following. "The filtered voltage transfer function H(k)(f) calculated in Equation (93A-19) uses the filter Ht(f) defined by Equation (93A-46) where Tr is calculated as Tr = 1.09 x Trm - 4.32 ps and Trm is the measured 20% to 80% transition time of the signal at TP0a."

In Section 7, 111.9, remove the phrase "and <beta> is 2" from the second sentence of the first paragraph.

C/ 94 SC 94	P487 L4	# 131
Dawe, Piers	Mellanox Technologies	
Comment Type T	Comment Status D	

100GBASE-KP4's time has passed.

#### SuggestedRemedy

Deprecate Clause 94 with the usual wording: NOTE--This PHY is not recommended for new installations. Since xxx 201x, maintenance changes are no longer being considered for this clause.

Proposed Response Response Status W

PROPOSED REJECT.

100GBASE-KP4 (Clause 94) was part of amendment IEEE Std 802.3bj-2014. As this was published just 3 years ago, it seems premature to "deprecate" the clause. This can be reconsidered in future revisions.

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

C/ 94 SC 94 Page 34 of 41 9/7/2017 12:06:04 PM

Ø7         SC         Ø7.3.2.2.5           IcClellan, Brett	P <b>118</b> Marvell	L 16	# 36		C/ <b>97</b> Grow, Rot	SC 97.9.1 pert		<b>189</b> G Consulting	L <b>10</b>	# 64					
Comment Type ER typo in the figure text "80 SuggestedRemedy change "80B/ 80B/81B" t				bucket	above good.	the Editor's No	the variious PICS iter	omplete.  W d 115 have	the same ider	e to the paragraph itical paragraphthat's in that paragraph are					
Proposed Response PROPOSED ACCEPT.	Response Status W				Claus		or option AUTO, and i	in 96.11.4.9	ES2 is also o	otional. This seems					
						e 97 has no ma corrected!	jor option for its 97.1	1.13 ES1, w	/hich has a Sta	atus of M. This needs					
						e 115 has a ma A in the Suppo	jor option AE, with 11 rt.	15.14.15 but	t Status being	mandatory, with a					
							oes not have the sam 6262, uses a may an								
					Suggestee The m	2	would be to change 9	7.11.13 Sta	atus to O and S	Support to Yes, N/A.					
	F												For consistency, 115.14.15, E3, Status should be changed to O.		
						lauses with a s	ext in subclause 104.8 hall when required by			aragraph in the three addition of a related					
					Proposed	Response	Response Status	w							
					PROF	OSED ACCEP	T IN PRINCIPLE.								
					"Confe motor A stat "All ec vehicle	orms to IEC 609 vehicle applica us of "M" for thi juipment subject	13 ES1 entry. 97.11. 950-1 (for IT and moto tions only, if required s entry matches the to to this clause shall o and to ISO 26262 (for ."	or vehicle a by the give ext in 97.9. conform to	pplications) an n application)" 1 which says: IEC 60950-1 (i	d to ISO 26262 (for for IT and motor					
					- chan vehicl the giv - chan - chan - chan	ge Value/Comr e applications) : /en application) ge Feature for ge Value/Comr ge Feature for	nanges in 115.14.16 nent for E2 to read "C and to ISO 26262 (for ." E2 to read "General S nent for E3 to read "If E3 to read "Conforms erence values remain	r motor vehi Safety" f intended fo s to ISO 262	icle application or motor vehicl 262"	s only, if required by					
YPE: TR/technical required	ER/editorial required GR/	general required <sup>-</sup>	T/technical E/	editorial G/gen	eral			C/ 97		Page 35 of 41					

IYPE: IR/technical required ER/editorial required GR/gene	rai required T/technical E/editorial G/general	CI 97	Page 35 of 41
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	SC 97.9.1	9/7/2017 12:06:04 PM
SORT ORDER: Clause, Subclause, page, line			

vehicle applications) and to ISO 26262 (for motor vehicle applications only, if required by the given application)." - change Feature for ES1 to read " General Safety" - change Value/Comment for ES2 to read "Conforms to ISO 26262" - change Status for ES2 to "AUTO:M" - remove ES3 altogether Remaining status values and reference values remain unchanged.	Not clear if the r that should be of SuggestedRemedy "Next Page tran logical zero." Proposed Response PROPOSED AC Just to confirm: Cl 98 SC 98 Ran, Adee Comment Type I "Will" is used he context. SuggestedRemedy Change "will" to Proposed Response PROPOSED AC	capitalized ( nsmission ( Se ACCEPT. a: changing (8.2.4.3.2 E here as a no ( o "shall" Se	ends when both ends Response Status W "Next page" to "Next P215 Intel Comment Status D	ntity, but context sug of a link segment se Page" <i>L</i> <b>44</b>	bucket ggests that it an entity et their Next Page bits to # <u>119</u> bucket h uses "shall" in a similar
CI 98       SC 98.1.2       P 207       L 17       # 117         Ran, Adee       Intel         Comment Type       E       Comment Status       D       bucket         In Figure 98-2 the AN sublayer is labeled "AN2". Amd GMII is labeled "GMII1"       The numbers refer to the notes and should be in superscript (see Figure 91-7).       SuggestedRemedy         Change the format of these numbers to superscript.       Proposed Response       Response Status       W         PROPOSED ACCEPT.       C/ 98       SC 98.2.1.1.3       P 209       L 36       # 118         Comment Type       T       Comment Status       D       bucket         This text specifies "bit sequence" with the numebrs +1 and -1. But a "bit" has a value of either 0 or 1; DME is an mapping of bits to electrical sequence, not to other bits.       To add to the confusion, later it says "an end delimiter that consists of a logical 0 bit". But according to Figure 98-6 the end delimiter is an electrical zero, not a logical zero (which	PROPOSED AC Just to confirm: Cl 98 SC 98 Ran, Adee Comment Type I "Will" is used he context. SuggestedRemedy Change "will" to Proposed Response PROPOSED AC	ACCEPT. I: changing 18.2.4.3.2 E here as a no / o "shall" se	"Next page" to "Next P P215 Intel Comment Status D ormative requirement.	L <b>44</b>	bucke
In Figure 98-2 the AN sublayer is labeled "AN2". Amd GMII is labeled "GMII1" The numbers refer to the notes and should be in superscript (see Figure 91-7). SuggestedRemedy Change the format of these numbers to superscript. Proposed Response Response Status W PROPOSED ACCEPT. Cl 98 SC 98.2.1.1.3 P209 L 36 # 118 Ran, Adee Intel Comment Type T Comment Status D bucket This text specifies "bit sequence" with the numebrs +1 and -1. But a "bit" has a value of either 0 or 1; DME is an mapping of bits to electrical sequence, not to other bits. To add to the confusion, later it says "an end delimiter that consists of a logical 0 bit". But according to Figure 98-6 the end delimiter is an electrical zero, not a logical zero (which	Cl 98 SC 98 Ran, Adee Comment Type I "Will" is used he context. SuggestedRemedy Change "will" to Proposed Response PROPOSED AC	B8.2.4.3.2 E here as a no o "shall" se	P215 Intel Comment Status D ormative requirement.	L <b>44</b>	bucke
The numbers refer to the notes and should be in superscript (see Figure 91-7). SuggestedRemedy Change the format of these numbers to superscript. Proposed Response Response Status W PROPOSED ACCEPT. C/ 98 SC 98.2.1.1.3 P 209 L 36 # 118 Ran, Adee Intel Comment Type T Comment Status D bucket This text specifies "bit sequence" with the numebrs +1 and -1. But a "bit" has a value of either 0 or 1; DME is an mapping of bits to electrical sequence, not to other bits. To add to the confusion, later it says "an end delimiter that consists of a logical 0 bit". But according to Figure 98-6 the end delimiter is an electrical zero, not a logical zero (which	Ran, Adee Comment Type I "Will" is used he context. SuggestedRemedy Change "will" to Proposed Response PROPOSED AC	E nere as a no / oo "shall" se	Intel Comment Status D ormative requirement.		bucke
SuggestedRemedy         Change the format of these numbers to superscript.         Proposed Response       Response Status         PROPOSED ACCEPT.         Cl 98       SC 98.2.1.1.3         P209       L 36         Ran, Adee         Intel         Comment Type       T         Comment Status       D         bucket         This text specifies "bit sequence" with the numebrs +1 and -1. But a "bit" has a value of either 0 or 1; DME is an mapping of bits to electrical sequence, not to other bits.         To add to the confusion, later it says "an end delimiter that consists of a logical 0 bit". But according to Figure 98-6 the end delimiter is an electrical zero, not a logical zero (which	"Will" is used he context. SuggestedRemedy Change "will" to Proposed Response PROPOSED AC	nere as a no / o "shall" se	ormative requirement.	The next paragraph	
PROPOSED ACCEPT.         Cl 98       SC 98.2.1.1.3       P 209       L 36       # 118         Ran, Adee       Intel         Comment Type       T       Comment Status       D       bucket         This text specifies "bit sequence" with the numebrs +1 and -1. But a "bit" has a value of either 0 or 1; DME is an mapping of bits to electrical sequence, not to other bits.       To add to the confusion, later it says "an end delimiter that consists of a logical 0 bit". But according to Figure 98-6 the end delimiter is an electrical zero, not a logical zero (which	Change "will" to Proposed Response PROPOSED AC	o "shall" se	Response Status W		
Ran, Adee       Intel         Comment Type       T       Comment Status       D       bucket         This text specifies "bit sequence" with the numebrs +1 and -1. But a "bit" has a value of either 0 or 1; DME is an mapping of bits to electrical sequence, not to other bits.       To add to the confusion, later it says "an end delimiter that consists of a logical 0 bit". But according to Figure 98-6 the end delimiter is an electrical zero, not a logical zero (which	PROPOSED AC		Response Status W		
This text specifies "bit sequence" with the numebrs +1 and -1. But a "bit" has a value of either 0 or 1; DME is an mapping of bits to electrical sequence, not to other bits. To add to the confusion, later it says "an end delimiter that consists of a logical 0 bit". But according to Figure 98-6 the end delimiter is an electrical zero, not a logical zero (which					
either 0 or 1; DME is an mapping of bits to electrical sequence, not to other bits. To add to the confusion, later it says "an end delimiter that consists of a logical 0 bit". But according to Figure 98-6 the end delimiter is an electrical zero, not a logical zero (which	[Editor's note: P	Page numb	per changed to 215.]		
according to Figure 98-6 the end delimiter is an electrical zero, not a logical zero (which	C/ <b>98</b> SC <b>98</b> Ran, Adee	8.5.1	P <b>220</b> Intel	L <b>33</b>	# 120
	link_control and	d link_statu		They appear with _[	<i>bucke</i> [HCD] in Figure 98-7, so
SuggestedRemedy	should be define	ned with a s	suffix _[x].		
Change "bit sequence" to "sequence".	SuggestedRemedy				
Change "logical 0 bit" to "electrical 0" or "zero voltage".	Append _[x] to t	the variabl	e names.		
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	Proposed Response PROPOSED AC		Response Status W		
Change "bit sequence" to "sequence".					
change bit ocqueries to coqueries .					

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

CI 98 SC 98.5.1 Page 36 of 41 9/7/2017 12:06:04 PM

Cl 98         SC 98.5.5         P 227         L 8         # 148           Zimmerman, George         CME Consulting, Inc.	C/         99         SC         99.1         P 239         L 52         # 121           Ran, Adee         Intel
Comment Type       T       Comment Status       D       Iate         Figure 98-8 has several typos.       On 4 transitions (5 places) an OR (+) is indicated for state       transitions when the condition should be an AND (*) - line 8, 14,21 (&22) and line 28.       Clause 98 is based on Clause 73.       There are some important differences but figure 73-9         shows the expected behavior for the state transitions that are common between them.       (see figures attached as zimmerman_3cj_01_0817.pdf showing Figures 73-9 and 98-8). On 4 transition branches, "*" (AND) operators, appear to have been replaced with "+" (OR) operators.         I can only conclude this was a typo made on the implementation of comment 316 going from Draft 2.0 to Draft 2.1, which remained uncaught, for the following reasons:       1. The original contribution that proposed the state diagram had these as "*"         (mcclellan 3bp 03 1114 %20Autoneg baseline text proposal v0p4.pdf, page 25)       1.	Comment Type       E       Comment Status       D         The text here is taken from 802.3br which was an amendment, but now it is a revision of the standard.         SuggestedRemedy       Change "this amendment" to "this standard".         Check whether this footnote is still correct and relevant.         Proposed Response       Response Status       W         PROPOSED ACCEPT IN PRINCIPLE.         Change "this amendment" to "IEEE Std 802.3br <tm>-2016"</tm>
<ol> <li>The proposal was implemented as "*" in draft 1.1 (the first place this showed up): (see e.g., page 88 of D1.1), through d 2.0, but change in D 2.1 when the figure was redrawn based on comment 316 to change the font size, and were unchanged since then.</li> <li>There are no comments on draft 2.0 to change the logic of the transitions on Figure 98-8, or in connection with these variables, based on an electronic search of the D2.0 comment resolution report.</li> </ol>	C/       101       SC       101.3.2.2       P 319       L 50       # 9         Anslow, Pete       Ciena       Ciena       bucket         Comment Type       T       Comment Status       D       bucket         This text introduced by 802.3bn       says "The EPoC PHY utilizes a 64B/66B Encoder based on that described in 49.2.5." but 49.2.5 is "Transmit process" and does not describe the
SuggestedRemedy Line 8: Change "transmit_mv_end_done + remaining_ack_cnt = done" to "transmit_mv_end_done * remaining_ack_cnt = done" on transition from TRANSMIT DELIMITER TAIL to WAIT 1) Line 14: Change "complete_ack = true + transmit_mv_start_done" to "complete_ack = true * transmit_mv_start_done" on transition from TRANSMIT DELIMITER HEAD to TRANSMIT REMAINING ACKNOWLEDGE	64B/66B encoder, which is described in 49.2.4 "64B/66B transmission code" SuggestedRemedy Change "49.2.5" to "49.2.4" Proposed Response Response Status W PROPOSED ACCEPT.
Lines 22 & 23 (2 instances): Change "complete_ack = false + transmit_ability = true + transmit_mv_start_done" to "complete_ack = false * transmit_ability = true * transmit_mv_start_done" to "transition from TRANSMIT DELIMITER HEAD to TRANSMIT ABILITY Line 27: Change "transmit_mv_end_done + remaining_ack_cnt = not_done" to "transmit_mv_end_done * remaining_ack_cnt = not_done" on transition from TRANSMIT DELIMITER TAIL to WAIT 2.	C/       102       SC       102.4.1.8       P 449       L 29       #       10         Anslow, Pete       Ciena       Ciena       bucket         Comment Type       E       Comment Status       D       bucket         In this text (LinkUpRdy) introduced by 802.3bn       "or as describe in 102.4.4"       should be "or as described in 102.4.4"
Proposed Response Response Status W PROPOSED ACCEPT.	SuggestedRemedy Change "or as describe in 102.4.4" to "or as described in 102.4.4" Proposed Response Response Status W PROPOSED ACCEPT.

C/ 102 SC 102.4.1.8

C/ <b>103</b> SC Anslow, Pete	C 103.4.4.4	<i>P</i> <b>518</b> Ciena	L 10	# 11	<i>Cl</i> <b>105</b> Ran, Adee	SC 105.1.2	P 561 Intel	L 13	# 122
802.3bn am the 802.3 re forest green SuggestedReme Change "74 In Value/Co	17 introduced by endment) to "74 evision, the corre n font. Also, "price edy 2.2.4" to "77.2.2 mment change:	"MAC Control interface h	hen integrating ference was not '. nas prioroty over	the amendment into clear, so it was left in other clients" to "MAC	with the SuggestedF Change Proposed R	I numbers in th rest of this list <i>Remedy</i> "4 lane" to "fo	ur-lane". Response Status W	The text "4 lane"	bucket
Control inter Proposed Respo PROPOSEI	onse Re	over other clients (see or sponse Status W	definition of Sele	ctFrame)"	C/ <b>105</b> Ran, Adee	SC 105.4.3.1	Intel	L <b>44</b>	# 123
Stewart, Heath Comment Type The 200nF common cir demonstrate detect anott affected, the This has be comment to There is no vendors the in the marke	maximum limit o reuit configuration es that the propo- her PSE as a val ere is no impact en submitted as expedite the ch- impact on existin ability to take ac et.	P 529 Analog Device omment Status D n a PSE's Cout is limiting as can cause stability iss id PD. In addition, since on interoperability of exis Maintenance Request 1 ange process. Ing systems. Inclusion of dvantage of specification eee802.org/3/maint/requ	g. The current m sues. The attach eate the potentia no other detecti sting PoDL netw 308 and has bea this change as a relaxation befor	ed analysis al for one PSE to on parameters are orks. en put forth as a a comment will allow re any devices are out	Also ap SuggestedF Change the othe Proposed R PROPC "The su	a general servin plies to 105.4.3 Remedy "The sublayer er subclauses lesponse DSED REJECT blayer" is not in	Comment Status D ce interface definition, it does 3.2, 105.4.3.2.2, 105.4.3.3, 10 continuously sends" to "A su <i>Response Status</i> W happropriate wording here be is generating the requests.	05.4.3.3.1, 105.4 ublayer continuou	.3.3.2. usly sends", here and in
SuggestedReme Change Tab Proposed Responsed PROPOSEI	ole 104-3 Item 5 onse Re	Max limit from 200 nF to sponse Status W	2.64 uF.						

C/ 105 SC 105.4.3.1.2

C/ 108 SC 108.5.3.2 P 594 L1 #	74	C/ 110	SC 110.10.	7.1.1	P 640	L <b>7</b>	# 124
Slavick, Jeff Broadcom Ltd		Ran, Adee			Intel		
Comment Type E Comment Status D If the modification to Clause 91 are done to make the optional features of the sub-headings then do the same edit to keep things common across clauses. C RS-FEC has 2 optional features.			, ns 93A-13 an	d 93A-14 sho	nt Status <b>D</b> uld be used with 0.7.1 but omitte		buck replacing package
SuggestedRemedy		Also app	olies in 110.1	).7.1.2.			
Place the last 4 paragraphs and NOTE3 of 108.5.3.2 under a heading of 108.	5.3.2.2	SuggestedR	emedy				
Bypass Error Indication (optional) Move the paragraph starting with "The Reed-Solomon decoder indicates error NOTE2 to be the 3rd paragraph of 108.5.3.2	rs" and				e "representing a	an insetion loss",	here and in
Place the paragraph beginning with "The Reed-Solomon decoder may provide perform error detection" and the NOTE under a new sub-heading 108.5.3.2.1 Correction (optional)	Bypass Error	Proposed R PROPO	,	Response T IN PRINCIF	e Status W PLE.		
Update the references in 108.6.1, 108.6.2, 108.6.4, 108.6.5, 108.6.6, 108.7.3, 110.1, 111.1, 45.2.1.106.2, 45.2.1.106.3, 45.2.1.107.7, 45.2.1.107.8, 45.2.1.1 Proposed Response Response Status W		"The tra	nsmitter and	receiver PCB	0.10.7.1.1 to: signal paths are	both denoted as	S(HOSP) and are parameter values
PROPOSED REJECT.		given in	Table 92-12		mm, representir	ng an insertion los	
in a single subclause, including the optional features. Changing this and creating a new subclause for each optional feature would c number of changes to the draft without any significant improvement in the clar draft.		"The age from Eq	gressor trans uation (93A-1	mitter host P0 3) and Equat	B model is den on (93A-14) usi		SP) and is calculated values given in Table
	33	C/ 110	SC 110.13.	4.4	P170	L <b>18</b>	# 31
Klempa, Michael UNH IOL		Klempa, Mic	hael		UNH IOL		
	bucket	Comment Ty	/pe E	Comme	nt Status D		buck
		RC6 Fe	ature is "com	mon-mode in			buck is 92.8.4.3 which
Comment Type E Comment Status D TH11, TH12, and TH13 reference subclause 83E3.1 but should reference 109 references 83E3.1 but with differences in methodology		RC6 Fe	ature is "com "Differential to	mon-mode in	out return loss" b		
Comment Type E Comment Status D TH11, TH12, and TH13 reference subclause 83E3.1 but should reference 109 references 83E3.1 but with differences in methodology		RC6 Fea defines SuggestedR	ature is "com "Differential to "emedy	mon-mode in common-mo	out return loss" t ode input return		
Comment Type E Comment Status D TH11, TH12, and TH13 reference subclause 83E3.1 but should reference 109 references 83E3.1 but with differences in methodology SuggestedRemedy		RC6 Fea defines SuggestedR	ature is "com "Differential to <i>emedy</i> feature to "D	mon-mode in o common-mo	out return loss" t ode input return	loss"	
Comment Type <b>E</b> Comment Status <b>D</b> TH11, TH12, and TH13 reference subclause 83E3.1 but should reference 109 references 83E3.1 but with differences in methodology SuggestedRemedy Change the subclause to 109B.4.1		RC6 Fea defines SuggestedR Change Proposed R	ature is "com "Differential to <i>emedy</i> feature to "D	mon-mode in o common-mo ifferential to c <i>Respons</i>	out return loss" k ode input return ommon-mode in	loss"	
Comment Type E Comment Status D TH11, TH12, and TH13 reference subclause 83E3.1 but should reference 109 references 83E3.1 but with differences in methodology SuggestedRemedy Change the subclause to 109B.4.1 Proposed Response Response Status W		RC6 Fea defines SuggestedR Change Proposed R PROPO	ature is "com, "Differential to eemedy feature to "D esponse SED ACCEP note: Comm	mon-mode inp o common-mo ifferential to c <i>Response</i> T.	out return loss" b ode input return ommon-mode ir e Status W	loss" nput return loss"	

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

C/ 110 SC 110.13.4.4

C/         112         SC         112.7.2         P 678         L 4         # 144           Dawe, Piers         Mellanox Technologies	C/         119         SC         119.6         P 618         L 29         # 72           Slavick, Jeff         Broadcom Ltd         Frank         Broadcom Ltd         Frank         Frank         Broadcom Ltd         Frank         Frank </th
Comment Type <b>T</b> Comment Status <b>D</b> IEC 61280-1-3 (2010) is sufficient and we should use only international standards where they are available and adequate. Anyway, "TIA/EIA-455-127-A" would be "TIA-455-127-A".	Comment TypeTComment StatusDbucketThe remote loopback ability bit for 25G points to the 40/100G extended ability register. But25G has it's own extended ability register which is where this ability bit should reside.
SuggestedRemedy         Delete "TIA/EIA-455-127-A or" here (and in the PICS 112.11.4.4). Similarly in Clause 95 and other maintained MMF clauses that assume VCSELs.         Proposed Response       Response Status       W         PROPOSED ACCEPT IN PRINCIPLE.         See response to comment #128         Cl 113       SC 113.11       P 800       L 10       # 20         Anslow, Pete       Ciena	SuggestedRemedy In Table 45-20 define bit 15 to be 25G PMA Remote Loopback Ability Add: 45.2.1.17.1 25G PMA remote loopback ability (1.19.15) When read as a one, bit 1.19.15 indicates that the PMA is able to perform the remote loopback function. When read as a zero, bit 1.19.15 indicates that the PMA is not able to perform the remote loopback function. If a PMA is able to perform the remote loopback function, then it is controlled using the PMA remote loopback bit 1.0.1 (see 45.2.1.1.4). In Table 109-3 change the MDIO reference to 1.19.15
Comment Type       E       Comment Status       D       bucket         The second sentence of the note is: "For 25GBASE-T and 40GBASE-T, Equation (105-1) specifies the calculation of bit time per meter of electrical cable for 25GBASE-T." which is somewhat garbled.       SuggestedRemedy         SuggestedRemedy       Change to "Equation (105-1) specifies the calculation of bit time per meter of electrical cable for 25GBASE-T."       France of the calculation of bit time per meter of electrical cable for 25GBASE-T.	Proposed Response       Response Status       W         PROPOSED REJECT.       While it is true that it would have been cleaner to have defined bit 1.19.15 in the 25G PMA/PMD extended ability register to indicate the remote loopback ability for the 25G PMA, this was not how it was defined in IEEE Std 802.3by-2016. If this is changed now it will invalidate any existing compliant implementations of the 25G PMA.         C/       126       SC 126.8.2.2       P124       L 42       # 35
Proposed Response Response Status W PROPOSED ACCEPT.	McClellan, Brett     Marvell       Comment Type     ER       comment Status     D       bucket       error in the editor's note, "40" should be "250"

## SuggestedRemedy

change "40" to "250"

Proposed Response Response Status W

PROPOSED ACCEPT.

C/ 126 SC 126.8.2.2

CI A	SC A	P 5	63	L <b>8</b>	# 133
Dawe, Pi	ers	Mella	nox Tecl	nnologies	
Commen The	51	<i>Comment Status</i> now titles of clauses b	_	annexes	bucket
Char	• •	he titles of annexes s )" after the title rather			in the bookmarks, e.g.
,	d Response POSED REJECT	Response Status	w		
	s://development.	ex titles complies with standards.ieee.org/my			s Style manual. Refer to draft/styleman.pdf>,
The	current practice is	to manually edit the	PDF boo	kmarks to merg	ge the annex number

and title. Since this is a labor-intensive process, it is deferred to preparation for publication.

C/ A SC A