C/ SC 1 _aubach, Mark	P <b>30</b> Broadcom Lim	L <b>38</b> ited	# 2	C/FM         SC FM         P 8         L 7         # 331           Law, David         HPE         HPE         HPE
Comment Type E Editing instruction: sug Same for line 45	Comment Status A gest changing "in after" to "aft	er".		Comment Type E Comment Status A Please add Working Group voter list supplied in IEEE_P802d3cb_WG_names_DL_290816.fm
SuggestedRemedy As per comment.				SuggestedRemedy See comment.
Response ACCEPT.	Response Status C			Response Response Status C ACCEPT.
C/ <b>FM</b> SC Maguire, Valerie	P1 Siemon	L 18	# 120	C/FM     SC FM     P 8     L 16     # 72       Gardner, Andrew     Linear Technology
Comment Type E Extraneous "." at the er	Comment Status A nd of the amendment title			Comment Type E Comment Status A Name for Task Force Editor-in-Chief is "FirstName SecondName."
SuggestedRemedy Delete extraneous "."				SuggestedRemedy Insert correct name for Task Force Editor-in-Chief
Response ACCEPT.	Response Status C			Response Response Status C ACCEPT IN PRINCIPLE.
C/ <b>FM</b> SC Smith, Daniel	P <b>4</b> Seagate	L 10	# 132	Daniel F. Smith added as editor in chief. Jim Hatfield added as editor.
Comment Type ER spelling of the word ara	Comment Status A			C/ FMSC AbstractP 3L 1# 330Donahue, CurtisUNH-IOL
SuggestedRemedy Arabic not arabic Response	Response Status <b>C</b>			Comment Type E Comment Status A The first sentence of the abstract is strange. "This amendment to the IEEE Std 802.3- 2015". Either it needs improvement or should be removed (I don't see similar text from other amendments).
, ACCEPT.				SuggestedRemedy Change or remove.
				Response Response Status C ACCEPT IN PRINCIPLE. OBE, see comment #158.

C/ FM SC Abstract

C/ 00         SC         P 101         L 42         # 115           Bains, Amrik         Cisco Systems         Cisco Systems         Cisco Systems	C/         00         SC         0         P         0         L         0         #         124           Slavick, Jeff         Broadcom Limited         Image: Comparison of the second seco
Comment Type ER Comment Status A 1000BASE-KX shpuld be changes to 2.5GBAS-KXE	Comment Type ER Comment Status A 802.3by is an offiical standard
"The 1000BASE-KX PHY receiver should put unused functional blocks into a low power state to save energy."	SuggestedRemedy Change all the 802.3by-201x to 8023by-2016
SuggestedRemedy 1000BASE-KX shpuld be changes to 2.5GBAS-KXE	Response Response Status W ACCEPT.
"The 1000BASE-KX PHY receiver should put unused functional blocks into a low power state to save energy."	C/ 00         SC 0         P1         L2         # 157           Grow, Robert         RMG Consulting
Response Response Status W ACCEPT IN PRINCIPLE. Should be worded:	Comment Type E Comment Status A This is typically where the list of amendments and corrigenda comprising the base document is listed. (See IEEE Std 802.3by page two or title page of P802.3bv/D3.0 for example.)
"The 2.5GBASE-KX PHY receiver should put unused functional blocks into a low power	SuggestedRemedy
state to save energy."       C/ 00     SC 0       P     L       Grow, Robert     RMG Consulting       Comment Type     E       Comment Status     R	Copy list from P802.3bv, adding IEEE Std 802.3bv-20xx. Delete the list from line 25. Years should be of the form 20xx for projects not yet approved. The SASB teleconference is 22 Sept, so if D3.1 is not distributed before knowing the results, 802.3bn and 802.3bz might appropriately be 2016. Based on current schedules, this amendment is likely to be designated Amendment 10, so no other amendments need be considered for addition to the list at this time.
The inserts as specified by P802.3bz make worse the sort order mess that is currently the state of 1.4. 40GBASE terms in 2015 did not follow either the speed ordered port type list at the beginning of 1.4, nor insert after 2BASE-TL for at least the first digit being in sort order. 25GBASE terms were inserted by P802.3by before 40GBASE terms so at least the first digit of the port types somewhat sort. P802.3bz inserts start a third area for insert of port types in the area of 1BASE-TL, unfortunately, there is no predictable sort order in P802.3bz as the 5GBASE terms should follow 2BASE-TL to approximate IEEE sort order.	Response Response Status C ACCEPT.
SuggestedRemedy	
Unless another revision is completed prior to this amendmement (which would require significant editorial changes to the draft), it is probably best to follow P802.3bz. Please watch to see if order and numbering is changed when P802.3bz is published.	
Response Response Status C REJECT.	

The insert point next to 802.3bz terms is correct for the current state of 1.4. The order for 1.4 can be fixed at the next revision of standard 802.3.

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/ 00 SC 0

C/ 00 SC 0 Grow, Robert	P1 L2 RMG Consulting	# 152	C/ 00 SC 0 Grow, Robert	P <b>3</b> RMG Consultir	L <b>5</b>	# 159		
Comment Type E	Comment Status A e the list of amendments and corrigend	a comprising the base	Comment Type E	Comment Status A add just speed to keywords.	'9			
document being amended P802.3bv/D3.0 for exampl	l is listed. (See IEEE Std 802.3by page le.)	two or title page of	SuggestedRemedy Either delete speed keywords or expand to 2.5 Gigabit Ethernet, etc.					
Questioning the schedule 12; and 802.3bs at the sar to the list certainly can be approved before this proje		ues against Amendment ossup, so the list or edits vill almost certainly be	Response ACCEPT IN PRING Replace 2.5 Gb/s a 2.5 Gigabit Etherna		ywords list.			
teleconference is 22 Sept,	as the year for yet to be approved proje , so if P802.3cb/D2.1 is not distributed b 3bz might appropriately be 2016, but the 302.3bv should be 20xx.	before knowing the	C/ 00 SC 0 Grow, Robert	P 8 RMG Consultir Comment Status A	L <b>18</b> ng	# 154		
SuggestedRemedy			Comment Type E Comment Status A The WG ballot group is now known. It is thoughtful to allow members to review the					
	/D3.0 or indicate to be updated during p e list at line 25.	publication preparation. If	appearance of their names in case there is any error in the database. SuggestedRemedy					
Response F ACCEPT IN PRINCIPLE.	Response Status C	Add list that the WG Chair can provide, (he will probably remind you not to duplicate office names in the added list).						
move it after .3bu.	ert amendment numbers3bv to be as nagenta color turned to black.	signed amendment 9 and	Response ACCEPT IN PRING [Editor's note: chai	Response Status <b>C</b> CIPLE. r to provide ballot group to editor.]				
Add TM after the amender list. ]	nt names (example: 802.3bzTM-20xx) f	or all occurrences in this	C/ 00 SC 0 Grow, Robert	Р <b>8</b> RMG Consultir	L <b>19</b> ng	# 160		
C/ 00 SC 0	P3 L1	# 158	Comment Type E	Comment Status A				
Grow, Robert	RMG Consulting			up is now known. It is thoughtful to r names in case there is any error				
Comment Type E Incomplete first sentence.	Comment Status A		SuggestedRemedy					
SuggestedRemedy			Add list that the W names in the adde	G Chair can provide, (he will proba d list)	ably remind you	not to duplicate officer		
Delete the full stop and wo	ords: This amendment		Response	Response Status C				
	Response Status C		ACCEPT IN PRINC [Editor's note: dupl	CIPLE.				
Should read: Abstract: This amendmen	t to IEEE Std 802.3-2015 defines Ether	net Media						

CI 00 SC 0 Page 3 of 75 11/9/2016 9:14:48 PM

<b>00</b> SC <b>0</b> w, Robert	P <b>10</b> RMG Consulti	L <b>3</b> ng	# 161	C/ 00 S Grow, Robert	C 0	P 11 RMG Consulti	L <b>13</b> ng	# 155
, ji	<b>E</b> Comment Status <b>A</b> lished as part of the standard, so the f the standard.	self reference	should be to the		h current do	Comment Status <b>A</b> cument descriptions.		
ggestedRemedy Change P802.36 sponse ACCEPT.	icb to IEEE Std 802.3cb-20xx. Response Status <b>C</b>			creating the text is draw	/ prefer addi e draft in an /n from prec	ng the document list with draf Editor's note above this list a eding amendments and corrig ient information for this purpo	s this is the first genda. The Edi	location where base
<b>00</b> SC <b>0</b> ww, Robert	P <b>10</b> RMG Consulti	L <b>26</b> ng	# 153	p. 12, l. 42 deleted "fo	hopefully pu r" to do that	eview updates to the list are a ublication editors will correct th in their drafts; d standard includes Annex 10	ne grammar, otl	
Draft uses both While this project	E Comment Status A 201x and 20xx for yet to be approved to tis unlikely to be subject to the uncer started now face that possible uncer	ertainty of the r		p.11, I.51 p.12, I.14 pair interfa p.12, I.15	Physical Lay P802.3bu/D ces; as you proba	ver is the capitalization in P80 3.1 adds to the last line of the ably know, P802.3bv has been	2.3bn/D3.2; description; IEI	EE 802.3 single twisted
IEEE boilerplate	o simplify search by publication editor e.	r. I recomment	20xx as is used in	amendmer 115A. This	The P802.3I It includes c amendmer	ov/D3.0 description has been hanges to IEEE Std 802.3-20 ht adds point-to-point 1000 Mk meters for operation on duple	15 and add clau b/s Physical Lay	use 115 and Annex ver (PHY) specifications
sponse ACCEPT.	Response Status C			use in auto	motive, indu	istrial, home network and othe ding Corregigendum 1 descrip	er applications.	liber (i Or) targeting
				[Editor's no Also add C Use .bv as use of othe	orrigendum an example r drafts. It is	exception .bu and .bn descrip 1 to the list. of where to place this and the	e needed conte	nt, based on 802.3cb's
				use of othe this informa	r drafts. It is ation.]	;	also recommended that the	of where to place this and the needed conter also recommended that the particular draft u r's note, in the draft, that states "This informa

[Also, can add an editor's note, in the draft, that states "This information may change for Sponsor Ballot."]

CI 00 SC 0

					0 1			•
C/ <b>00</b> SC <b>0</b> Grow, Robert	P 11 RMG Consulting	L <b>26</b>	# 162	C/ <b>00</b> S Grow, Robert	SC 0	P 26 RMG Consulting	L <b>4</b>	# 163
Comment Type E Update with current docur	Comment Status <b>A</b> ment descriptions.			Comment Type The amen		Comment Status A s for most of the listed docum	ents have be	en established.
creating the draft in the E drawn from preceding am not include draft informati From my most recent revi p. 11, I. 26, add Annex 10 p. 11, I. 46 hopefully publi p. 11, I. 49 though almost until approval; p. 12, I.4 though almost of approval; p. 12, I. 24 description of	iew updates to the list are appro	first location Editor's not priate: ammar; it is customa t is customa been desig	where base text is e list on p. 25 does hary to list as 20xx ary to list as 20xx until nated Amendment 9;	and possit Response ACCEPT I	te to delete am oly P802.3cc ar N PRINCIPLE.	rendments assigned numbers re the only other amends likel <i>Response Status</i> <b>C</b> tof ammendments with .bs a	y to compete	
esponse ACCEPT IN PRINCIPLE. [Editor's note: duplicate or	Response Status C f #155]							
C/ 00 SC 0 Grow, Robert	P <b>12</b> RMG Consulting	L <b>24</b>	# 156					
Comment Type E Update with current docur	Comment Status <b>R</b> ment descriptions.							
creating the draft in an Ec text is drawn from preced does not provide good in From my most recent revi p. 12, I. 42 hopefully publi deleted "for" to do that in p. 13, I. 8 add Amendmer	the document list with draft nun ditor's note above this list as this ing amendments and corrigenda formation for this purpose. iew updates to the list are appro ication editors will correct the gra their drafts; t 8 802.3bu and Amendment 9 a ely to preceed approval of this pr	is the first l a. The Edito priate: ammar, othe 802.3bv. Al	ocation where base or's note list on p. 32 er projects have					
0	Response Status <b>C</b>	.,						

REJECT. Most amendments do not do this.

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 00 SC 0

C/00 SC 0	P 26	L <b>35</b>	# 33	C/ 1	SC 1.	.3	P 26	L 15	# 164
nslow, Pete	Ciena			Grow, Rot	pert		RMG Consul	ting	
	Comment Status A o other parts of the 802.3 standa nex" unless they are to the first I		ed by "Clause",	<i>Comment</i> The s		ER the doc	Comment Status <b>R</b> ument is possbily unknown f	or many readers	5.
Cross references to	Suggestee	-							
Cross references to should be text with	Pleas	e add a fo	ootnote	pointing to where to get the o	locument.				
SuggestedRemedy	Response			Response Status C					
Scrub the entire dr	REJE [Edito		SFF is a	Iready used in the base stan	dard.]				
	g at least the following changes: Clause 127.2.4.1" should be "127	'.2.4.1" (Xref form	nat "Section")	C/ 1	SC 1.	.4	P 16	L 19	# 165
Page 34 line 7, "70	0.6.4" should be text with the cha			Grow, Rot	pert		RMG Consul	ting	
	5.2.3.1" should be a hyperlink 0 41, "49.2", 55.3.6.3", "113.3.7.3	3". "126.3.7.3" sh	ould all be text with the	Comment	Туре	Е	Comment Status D		
character tag "Exter Page 53 lines 17, 7 with the character 1 Page 57 line 10, "1 Page 63 line 24 "C Page 63 line 24, "C Page 63 line 24, "C Page 66 line 28, "C Page 69 line 30, "C Page 78 line 14, "C Page 125 line 47, " Page 126 line 14, " Page 126 line 14, " Page 135 line 48 "S Page 136 lines 21, 3", and "Figure 130"	ernal" applied 18, and 19 "Clause 49", "Clause tag "External" applied 28A" and "130A" should be hype lause 36" should be text with the clause 35" should be "Clause 35" Clause 127.2.4.2" should be "127 Clause 127.2.4.2" should be "127 Clause 127.2.4.2" should be "127 Clause 51.2" should be "51.2" 'Clause 51.8" should be "51.8" 'Clause 49" should be text with the clause 49" should be text with the subclause 130.6.5" should be "1 32 to 35, and 53, "Annex 31B", p-1" should all be cross-reference	49", and "Clause erlinks e character tag "E ' and text with the '.2.4.2" '.2.4.2" '.2.4.2" aracter tag "Extern he character tag ' 30.6.5" and a cros "Clause 45", "Tat	82" should all be text External" applied e character tag nal" applied "External" applied ss-reference	have ; with 8 we ad order. 1BAS have ; alpha; decim	about 500 02.3u aba lded it after E-T and 2 a unique of numeric c al point ig d on the for dRemedy Respons	) entries andonin er startir 2BASE- <sup>-</sup> challeng characte gnored) ollowing	rite the sort rules for 1.4. As , the sort rules should be co g IEEE sort order and instea ng us on a path to almost art TL were originally inserted in e in resolving this because I rs. That means that 2.5G ar so that terms beginning with characters. <i>Response Status</i> <b>Z</b>	nsistent, unfortu d of adding 100 bitrary and some IEEE sort order EEE rules ignor nd 25G are treat	nately, we broke that Mb/s before 10 Mb/s what unpredictable r. With 2.5G, we now e spaces and non- ed the same (the
Page 137 line 42, "Clause 78" should be a cross-reference Page 140 lines 5, 22, and 23, "Table 130-4", "Equation (130-4)", and "Equation (130-5)" should all be cross-references Page 143 lines 29, and 30, "Equation (130-5)", and "Equation (130-6)" should both be cross-references Page 147 line 47, "130.7.2.1" should be a cross-reference Page 149 lines 2 and 36, "Clause 130" should be a cross-reference in both places Page 149 line 44, "Clause 21" should be text with the character tag "External" applied Page 171 line 50, "92.8.3.7" should be text with the character tag "External" applied Page 223 line 14, "Annex 128C.4.2" should be "128C.4.2"					comment	was WI <sup>-</sup>	THDRAWN by the comment	er.	
Response	Response Status <b>C</b>								
ACCEPT.	•								

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

C/ 1 SC 1.4

CI 1         SC 1.4         P 26         L 2           Lusted, Kent         Intel         Intel <td< th=""><th><b>27</b> # 210</th><th>C/ 1 SC 1.4 Donahue, Curtis</th><th><i>P</i> <b>26</b> UNH-IOL</th><th>L <b>53</b></th><th># 276</th></td<>	<b>27</b> # 210	C/ 1 SC 1.4 Donahue, Curtis	<i>P</i> <b>26</b> UNH-IOL	L <b>53</b>	# 276
Comment Type ER Comment Status A there are definitions listed in the editorial note do not match	that of the entries below.	Comment Type E "Clause 49 or Clau	Comment Status A use 82, Clause 107, or Clause 12	29."	
SuggestedRemedy list all entries in editing instructions or remove explicit refere instructions.	ence to terms in editing	SuggestedRemedy Remove the first "or 107, or Clause 129."	" and add a "," so the sentence r "	reads "Clause 49	9, Clause 82, Clause
Response Response Status W ACCEPT IN PRINCIPLE.		Response ACCEPT.	Response Status C		
List all entries in editing instructions.		C/ 1 SC 1.4.10		L <b>49</b>	# <u>1</u> 68
C/ 1 SC 1.4 P 26 L	40 # 211	Grow, Robert	RMG Consulti	ng	
Lusted, Kent Intel Comment Type TR Comment Status A the definition for 5GBASE-R incorrectly references 10GBAS		Comment Type E P802.3bs is also mo text is correct. SuggestedRemedy	Comment Status A odifying this definition, if timelines	s hold true, this ins	struction and base
SuggestedRemedy Consider changing "10GBASE-R" to "5GBASE-R" in 1.4.74 Response Response Status W ACCEPT.	a4	Add an Editor's note	e to remind that 802.3bs is also n on reference will have to be upda than 802.3cb. <i>Response Status</i> <b>C</b>		
Cl 1 SC 1.4 P 26 L : Lusted, Kent Intel Comment Type TR Comment Status A	50 # 212				
The P802.3bs project is modifying the definition of BASE-R	also.	C/ 1 SC 1.4.74	a6 <i>P</i> 26	L <b>46</b>	# 167
The P802.3by-20xx project is P802.3-2016.		Grow, Robert	RMG Consulti	ng	
SuggestedRemedy Add to editor note the dependency on P802.3bs changes to	the definition of BASE-R.	Comment Type E 5GSEI should follow	Comment Status A 5GBASE-T inserted by IEEE St	td 802.3bz-20xx.	
Update reference to 802.3by with the published year.		SuggestedRemedy			
Response Response Status W		Add editing instruction	on referencing IEEE Std 802.3bz	z-20xx and renumb	per 5GSEI to 1.4.74c.
ACCEPT IN PRINCIPLE.		Response	Response Status C		
Change 201x to 2016 because 802.3.by is now published.		ACCEPT. [Editor's note: comm	nent #32 contains this and more.	.]	
Add the following note: This definition is being changed by 802.3bs in parallel.					

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 **1.4.74a6**  Page 7 of 75 11/9/2016 9:14:48 PM

C/ 1 SC 1.4.74aa	a P <b>26</b>	L <b>21</b>	# 32	C/ 30	SC 30.3.2.1.2	2	P <b>29</b>	L 19	# 34
islow, Pete	Ciena			Anslow, F	ete	(	Ciena		
omment Type E	Comment Status A			Comment	Type E	Comment St	atus A		
There is no need to sa There is no need to sa	structions in 1.4 do not confo ay "in alphanumerical order" ay "and renumber" as re-num	as the position is	explicit.	5GBA	ASE-T entries wer	re inserted by IE	EE Std 802.		at the 2.5GBASE-T c 30.3.2.1.3
amendment. The list of definitions i	a incorroct			Suggeste	dRemedy				
"5GSEI" should be aft					ge the editing ins				
SuggestedRemedy					rt the following ne 5GBASE-T (as in				.2.1.2 after the entry
Change the first editin 1.4.74a 2.5GBASE-T Change the second et 2.5GPII, 2.5GSEI, 5G by IEEE Std 802.3bz- Add a new editing inst	ruction before the definition GBASE-T (as inserted by IE	2.3bz-201x) as fol le five new definiti after 1.4.74a 2.50 for "5GSEI": "Inse	ows:" ons for 2.5GBASE-X, BASE-T (as inserted rt the new definition for	"Inse for 50 Chan "Inse for 2. "Inse for 50	rt the following ne GBASE-T (as inse ge the editing ins t the following ne 5GBASE-T (as in t the following ne GBASE-T (as inse	we entry in "APP erted by IEEE St tructions in 30.3 we entry in "APP serted by IEEE St we entry in "APP erted by IEEE St	ROPRIATE d 802.3bz-2 .2.1.3 to: ROPRIATE Std 802.3bz ROPRIATE d 802.3bz-2	SYNTAX" in 30.3 01x)". SYNTAX" in 30.3 -201x)". SYNTAX" in 30.3	2.1.2 after the entry 2.1.3 after the entry 2.1.3 after the entry
esponse	Response Status C			Response		Response Sta	atus <b>C</b>		
ACCEPT.				ACCE	-PI.				
				C/ 30	SC 30.5.1.1.	2	P 30	L 10	# 35
/ 1 SC 1.4.74aa		L 25	# 14	Anslow, F	Pete	(	Ciena		
ajduczenia, Marek	Charter Con	imunicatio		Comment	Туре Е	Comment St	atus A		
omment Type E "IEEE Std 802.3bs™-	Comment Status R 201x" is not marked as Ame	ndment 8			entry for 2.5GBAS			oz, it was inserted T"	by .3bz.
uggestedRemedy				Suggeste	dRemedy				
	" ahead of "This amendment e 116 through Clause 124" st		s to IEEE Std 802.3-					l by" to "as inserte SE-T" to "5GBASE	
esponse	Response Status C			Response	e	Response Sta	atus C		
REJECT.				ACCE	EPT.				
Amendment 8 is 802.3	3bu, 802.3bs has not been a	ssigned an ameno	dment number.						
1 SC 1.5 aden, Eric	P <b>27</b> Broadcom L	L 6 imited	# 243						
omment Type ER 2.5GSEI line is missin	Comment Status A	entence. Also 50	SEI						
<i>uggestedRemedy</i> Fix them									
esponse ACCEPT.	Response Status W								
	e d. ED/s dite sister and state of							•	

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

C/ 30 SC 30.5.1.1.2 Page 8 of 75 11/9/2016 9:14:48 PM

C/ <b>30</b> SC <b>30.5.1.1</b> ./	2 <i>P</i> 30 UNH-IOL	L 14	# 324	C/ <b>31B</b> Anslow, Pete	SC 31B.3.7	<i>P</i> <b>155</b> Ciena	L <b>35</b>	# 60
Comment Type E "over undefined PMD". this langauge.	Comment Status D After reviewing other aMAU	Types, I can't finc	l other instances of	Comment Ty Editing ir SuggestedRe	istructions ne	Comment Status A eed improvement		
Proposed Response REJECT.	line 20. aMAUType descriptions <i>Response Status</i> <b>Z</b> THDRAWN by the commente	er.		Change ( (as inser Change ) after the 802.3bz- Change ) after the 201x) as Remove	the first editir ted by IEEE 3 the second e paragraph st 201x) as follo the third editi paragraph st follows:" the underline	g instruction to: "Change th Std 802.3bz-201x) as follow diting instruction to: "Insert arting "2.5 Gb/s (using 2.50 ws:" ng instruction to: "Insert a n arting "5 Gb/s (using 5GBA e from "5 Gb/s (not using 50 ne insert editing instruction	s:" a new paragraph i BBASE-T) " (as ins ew paragraph in 3 SE-T) " (as inserte BBASE-T) - max_c	n 31B.3.7 immediately serted by IEEE Std 1B.3.7 immediately ed by IEEE Std 802.3b overrun = 768+
/ <b>30</b> SC <b>30.6.1.1</b> . nslow, Pete	5 <i>P</i> 30 Ciena	L <b>38</b>	# 36	Response ACCEPT		Response Status C		
The entries for 2.5GBA by .3bz. "in after the entry" doe:	Comment Status <b>A</b> ASE-T and 5GBASE-T were r sn't make sense.	not modified by .3	bz, they were inserted	C/ <b>31B</b> Anslow, Pete Comment Ty		P 156 Ciena Comment Status A	L <b>7</b>	# 61
uggestedRemedy In the two editing instruction change "in after the" to change "as modified b	after the".			being in sothers as		rows as items *MIIcc and * as it is currently and also no		
Response ACCEPT.	Response Status C			*MIIca (a for *MIIcl (unchang Renumb Change TIM4a (a for TIM4I (unchang	editing instructs is inserted by to (as inserted ged rows not er items according editing instructs is inserted by	ordinglý. ction in 31B.4.6 to: "Insert a r IEEE Std 802.3bz-201x) a I by IEEE Std 802.3bz-201> shown):"	nd a new row for * c) in the table in 31 new row for TIM4 nd a new row for T	MIIca1 before the row B.4.3 as follows aa before the row for IM4a1 before the row
				Response ACCEPT		Response Status C		

C/ 31B SC 31B.4.3 Page 9 of 75 11/9/2016 9:14:48 PM

C/ <b>31B</b> SC <b>31B.4.3</b> Anslow, Pete	<i>P</i> <b>156</b> Ciena	L 13	# 62	Cl 45 SC 45.2.1.1.5 Anslow, Pete	P <b>31</b> Ciena	L <b>31</b>	# 38
types of 2.5GBASE-KX These should be consis other PHY types may b SuggestedRemedy Change *MIIcc to "At op T"	stent with each other. The fo ecome lengthy. perating speeds of 2.5 Gb/s v	mer seems pre vith PHY types o	ferable as a list of all other than 2.5GBASE-	Editing instructions should be try to capture the change in the SuggestedRemedy Change the editing instruction	ne text.		
Change "Milico to "At o Response ACCEPT.	perating speeds of 5 Gb/s wit Response Status <b>C</b>	n PHY types oti	ner than 5GBASE-1"	C/ 45 SC 45.2.1.1.5 McClellan, Brett	P <b>31</b> Marvell	L <b>31</b>	# 217
C/ 31B SC 31B.4.6 Donahue, Curtis Comment Type E Rows are missing divid SuggestedRemedy Add divider between ro		L 28	# [ <u>325</u> ]	per 129.3.3 5GBASE-R has a SuggestedRemedy page 31 line 31 and 33 change		,	
Response ACCEPT.	Response Status <b>C</b>			C/ 45 SC 45.2.1.6 Grow, Robert	P <b>31</b> RMG Consult	L <b>38</b> ing	# 169
C/ 45 SC 45.2.1 Anslow, Pete Comment Type E	P 31 Ciena Comment Status A	L 16	# 37	P802.3bs is defining bit 6 to ( (with a leading 0) listed as re SuggestedRemedy	served.	-	
There are two register r SuggestedRemedy In the editing instruction Response ACCEPT.	name changes n change: "name of the regist <i>Response Status</i> <b>C</b>	er" to "names o	f the registers"	Might want to add an editors amendment order will not onl base text if P802.3bs is assig lower amendment number, th values to prevent them being <i>Response</i> Res ACCEPT IN PRINCIPLE.	y require changes to the ned a lower amendme the reserced rows	ne editing instruc ent number. If th	tion, but also to the is project is assigned a

C/ **45** SC **45.2.1.6**  Page 10 of 75 11/9/2016 9:14:48 PM

Anslow, Pete	<i>Р</i> <b>31</b> Ciena	L <b>48</b>	# 39	C/ 45 SC 45.2.1.14c.a Anslow, Pete	P <b>33</b> Ciena	L <b>12</b>	# 42
Comment Type <b>T</b> Most other entries in this	Comment Status A table end "PMA/PMD", e.g	J. "10GBASE-KR	PMA/PMD"	Comment Type E C "Std" and a space missing in	omment Status <b>A</b> n the editing instruction.		
	5GBASE-KR PMA/PMD to "2.5GBASE-KX PMA/P			SuggestedRemedy change "by IEEE 802.3bz-2	, ,	802.3bz-201x) a	ıs"
Response ACCEPT.	Response Status C			Response Re ACCEPT IN PRINCIPLE.	sponse Status C		
C/ 45 SC 45.2.1.7.4 Anslow, Pete	P 32 Ciena	L 6	# 40	Global replace: 802.3bz-201x with 802.3bz- and 802.3by-201x with 802.3by-			
	Comment Status A garbled in 45.2.1.7.4, 45.2.	1.7.5, and 45.2.1.	8	<i>Cl</i> <b>45</b> SC <b>45.2.1.88</b> Hidaka, Yasuo	Р <b>33</b> Fujitsu Lab of	L <b>28</b> f America	# 174
SuggestedRemedy In the editing instructions "IEEE802.3-201x Std 802 "IEEE Std 802.3bz-201x"		and 45.2.1.8 chan	ge:	Comment Type E C Here, MDIO register names appear in Table 70-2 and Ta			
Response ACCEPT IN PRINCIPLE.	Response Status C			SuggestedRemedy Provide editing instructions clause 70.5 so that the PMA			and Table 70-3 in
In the editing instructions "IEEE802.3-201x Std 802 "IEEE Std 802.3bz-2016"		and 45.2.1.8 chan	ge:	_	sponse Status C		
C/ <b>45</b> SC <b>45.2.1.14c</b>	P <b>32</b> Ciena	L <b>50</b>	# 41	Pull in Clause 70.5 into our 70-2 and Table 70-3. Provid Note: this comment is on Cl [Editor's note: file 802.3-201	e the editing instruction ause 70, not Clause 45.	S.	egister names in Tabl
	Comment Status A						
omment Type E The editing instruction ne Given the underlining of t	Comment Status A eeds to state where Table 4 the new rows in the table (v on) it is simplest to make th	which are only app	propriate for a	C/ 45 SC 45.2.1.88 Anslow, Pete	P <b>33</b> Ciena	L <b>32</b>	# 43
omment Type <b>E</b> The editing instruction ne Given the underlining of t "change" editing instruction uggestedRemedy Change the editing instru	eeds to state where Table 4 the new rows in the table (v	which are only app he editing instruct for 1.21.15:2 in Ta	propriate for a ion a simple "change". able 45-17c (as	Anslow, Pete Comment Type E C "." missing from the end of t	Ciena omment Status A	L <b>32</b>	# 43
Comment Type <b>E</b> The editing instruction ne Given the underlining of t "change" editing instruction SuggestedRemedy Change the editing instru- inserted by IEEE Std 802	eeds to state where Table 4 the new rows in the table (v on) it is simplest to make the action to: "Change the row f 2.3bz-201x) as follows (unc <i>Response Status</i> <b>C</b>	which are only app he editing instruct for 1.21.15:2 in Ta	propriate for a ion a simple "change". able 45-17c (as	Anslow, Pete <i>Comment Type</i> <b>E</b> <i>C</i> "." missing from the end of t <i>SuggestedRemedy</i> Add "."	Ciena omment Status A	L <b>32</b>	# <u>43</u>

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 C/ 45
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 COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 SC 45.2.1.88
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 SORT ORDER: Clause, Subclause, page, line
 SC 45.2.1.88
 11/9/2016 9:14:48 PM

IEEE P802.3cb 2.5 Gb/s and 5 Gb/s Backp	blane Initial Working Group ballot comments

CI 45 SC 45.2.3.7.a P 35	L <b>49</b>	# 244	C/ <b>45</b>	SC 45.2.3.7	7a	P 35	L <b>21</b>	# 213
Baden, Eric Broadcom Limite	ed		Lusted, Ke	nt		Intel		
Comment Type E Comment Status A Two issues first issue: formatting - 45.2.3.7a refers to placed between the edit instruction and the referred tab		out Table 45-123 is		5-124a entries	<i>Comment</i> for bits 3.9.2 as r editing instruc	nd 3.9.3 are no	ot underlined (per	IEEE style guide) to
SuggestedRemedy			Suggested	Remedy				
1) move Table 45-123 before 45.2.3.7a			Underl	ine as necessa	ary			
Response Response Status C ACCEPT.			Response ACCEI	PT.	Response	Status W		
C/ 45 SC 45.2.3.7.a P 36	L 23	# 245	Same	as comment #	15.			
Baden, Eric     Broadcom Limite       Comment Type     E       Comment Status     A	D		<i>CI</i> <b>45</b> Lusted, Ke	SC <b>45.2.3.7</b> nt	7a	P 35 Intel	L <b>21</b>	# 202
Second issue: Edit instruction says "insert" but the Tab without any revision marks. BTW revision marks are no SuggestedRemedy Change the edit instruction to "modify", and note inserte Response Response Status <b>C</b>	ot allowed for "ins	ert" instruction.	indicat Suggested	5-125a entries e insertions pe	er editing instruc	and 3.21.7 are	not underlined (p	er IEEE style guide) t
ACCEPT.			Response		Response	Status W		
Cl <b>45</b> SC <b>45.2.3.7a</b> P <b>35</b> Hajduczenia, Marek Charter Commun	L <b>15</b> nicatio	# 15	ACCE	PT. as comment #	15			
Comment Type E Comment Status A Rows in Table 45–124a modified (added) by this projec	ct are not marked	in underline	Cl 45 Anslow, Pe	SC 45.2.3.7	-	P <b>35</b> Ciena	L <b>34</b>	# 44
uggestedRemedy			Comment	Туре Е	Comment	Status A		
Mark rows for bits 3.9.3 and 3.9.2 Response Response Status C ACCEPT.			For the	e moment, ass		3bs is ahead c		r the editing instructio need to change.
[Editor's note: the lines that are being inserted must hav	ve an underline.]			e editing instru	iction: "Insert 45 802.3bs-201x)		45.2.3.7a.b befor	e 45.2.3.7a.1 (as
			Response		Response	Status C		
			ACCEI	PT.	-			

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C/         45         SC         45.2.3.7a.a         P 35         L 34         # 16           Hajduczenia, Marek         Charter Communicatio         Charter Communicatio	C/         45         SC         45.2.3.9a         P 36         L 7         # 17           Hajduczenia, Marek         Charter Communicatio         T         T         T
Comment Type E Comment Status A No editorial instructions for 45.2.3.7a.a and 45.2.3.7a.b	Comment Type E Comment Status A Rows in Table 45–125a modified (added) by this project are not marked in underline
SuggestedRemedy Insert editorial instructions before 45.2.3.7a.a	SuggestedRemedy Mark rows for bits 3.21.8, 3.21.7, and 3.21.6:3 - they are being added
Response Response Status C ACCEPT IN PRINCIPLE.	Response Response Status C ACCEPT.
Add editing instructions as shown:	Same as comment #15.
Insert 45.2.3.7a.a and 45.2.3.9a.b after 45.2.3.7a.1 (as inserted by IEEE Std 802.3bs- 201x) as follows:	C/         45         SC         45.2.3.14.3         P 37         L 43         # 18           Hajduczenia, Marek         Charter Communicatio         Charter Communicatio         Environmentation         Environmentation
/ <b>45</b> SC <b>45.2.3.9a</b> <i>P</i> <b>36</b> <i>L</i> <b>3</b> # <u>45</u> nslow, Pete Ciena	Comment Type E Comment Status A Please make sure that "/" is not used for hyphenation
Comment Type       E       Comment Status       A         The draft is inconsistent as to what is assumed concerning the order of approval of the P802.3bs and P802.3cb drafts.       In 45.2.3.7a it is assumed that the P802.3bs draft is first, here the changes due to P802.3bs are not shown.	SuggestedRemedy         Alternatively, place a forced line break ahead of: "5/10/25/40/100GBASE-R" to make sur that designators are not broken across lines         Response       Response Status         C         ACCEPT.
Make the draft consistent as to whether P802.3bs is assumed to be before P802.3bs or after. If it is assumed that P802.3bs is approved first, take account of the changes to Table 45-125a being made by the P802.3bs draft.	Cl 45 SC 45.2.7.2.1 P 38 L 28 # 46 Anslow, Pete Ciena
Also there is a space missing in "3.21.6:3in". esponse Response Status C	Comment Type E Comment Status A "more than one of 1000BASE-KX, or 2.5GBASE-KX, or 10GBASE-KX4 PMAs" doesn't need two "or"s
ACCEPT IN PRINCIPLE.	SuggestedRemedy Remove the first of the two "or"s
We assume this project will have a lower amendment number than 802.3bs.	

C/ **45** SC **45.2.7.2.1**  Page 13 of 75 11/9/2016 9:14:48 PM

C/ <b>45</b> SC <b>45.2.7.1</b> Hajduczenia, Marek	2 P 38 Charter Com	L <b>38</b> municatio	# 19		<i>CI</i> <b>45</b> Donahue, C	SC <b>45.5.3.1</b> Surtis	P <b>41</b> UNH-IC	<i>L</i> <b>28</b> L	# 327
Comment Type <b>E</b> Rows in Table 45–209	Comment Status A 9 modified (added) by this pro	ject are not mark	ed in underline		<i>Comment 1</i> In the s		Comment Status <b>A</b> ne of the values is "5G		e "5GKR:M".
SuggestedRemedy Mark rows for bits 7.4		011ab			Suggestedl Change	Remedy e to "5GKR:M".			
esponse ACCEPT.	ble 45–211aa and Table 45–2 Response Status <b>C</b>				Response ACCEF	ΥT.	Response Status C	;	
Same as comment #1	15.				CI <b>45</b> Anslow, Pe	SC <b>45.5.3.1</b>	P <b>41</b> Ciena	L <b>28</b>	# 48
2/ <b>45</b> SC <b>45.2.7.1</b> Donahue, Curtis Comment Type <b>E</b>	4aa P 39 UNH-IOL Comment Status A	L <b>25</b>	# 326		Comment 7 In item "5GKR:	MM124, Status	Comment Status <b>4</b> "2.5GKX:M 5GKX:M K	-	5GKX:M" should be
	imn of the third row in Table 4	5-211aa, "2.5GB	ASE-KR". This sho	uld	Suggestedl Change	Remedy e "5GKX:M" to "	5GKR:M"		
SuggestedRemedy Change to "2.5GBASE	E-KX".				Response ACCEF	ΥТ.	Response Status C	2	
Response ACCEPT.	Response Status C				<i>Cl</i> <b>45</b> Anslow, Pe	SC <b>45.5.3.6</b>	P <b>41</b> Ciena	L <b>35</b>	# 49
/ <b>45</b> SC <b>45.5</b> nslow, Pete	P <b>41</b> Ciena	L <b>2</b>	# 47		<i>Comment 7</i> There a		Comment Status A		
omment Type E The heading for 45.5 s	Comment Status A should include a copyright rele	ease footnote.			Suggestedl Add an		on for items "*2.5GX" a	and "*5GR"	
uggestedRemedy Add the footnote					Response ACCEF	T IN PRINCIPL	Response Status C	>	
Pesponse ACCEPT.	Response Status C					e the following I ot shown):"	<sup>D</sup> CS row by adding 2.5	GX and 5GX as show	n below (unchanged
	r PICS proformas: Users of th subclause so that it can be u npleted PICS.					,			
[Editor's note: framem	aker help needed]								
	red ER/editorial required GR ispatched A/accepted R/reje ubclause, page, line					U/unsatisfied 2		C/ 45 SC 45.5.3.6	Page 14 of 75 11/9/2016 9:14:48

C/ 69 SC 69.1.1 Donahue, Curtis	P <b>43</b> UNH-IOL	L 16	# 328	<i>Cl</i> <b>73</b> Marris, Ar	SC <b>73.3</b> thur	P <b>47</b> Cadence De	<i>L</i> <b>46</b> sign Syst	# 215
Comment Type E "1000 Mb/s, 2.5Gb/s,	Comment Status A 5 Gb/s, 10 Gb/s," There sl	hould be a space	e in "2.5Gb/s".	<i>Comment</i> Editor	21	Comment Status A hould be change rather than in	nsert	
SuggestedRemedy Change to "2.5 Gb/s".				Suggester Add te		d paragreaph as follows" or s	omething similar.	
Response ACCEPT.	Response Status C			Also f	îx in 73.6.4 and	73.7.4.1		
C/ 69 SC 69.1.1	P <b>43</b>	L 16	# 50	Response ACCE		Response Status C		
Anslow, Pete	Ciena			C/ 73	SC 73.3	P <b>47</b>	L <b>46</b>	# 51
Comment Type E	Comment Status A	and toxt offer "	PE Ch/o" on line 17	Anslow, P	ete	Ciena		
Space missing in 2.50	Bb/s" and comma missing in b		25 GD/S ON INE 17	Comment	Type E	Comment Status A		
change to "2.5 Gb/s" a Response ACCEPT.	nd add comma after "25 Gb/s Response Status <b>C</b>	s" on line 17		IEEE	Std 802.3by-20 last editing inst	econd editing instruction in 73 16 is now published. ruction for 73.6.4, "paragraph		agraph"
Cl 73 SC 73.2 Donahue, Curtis Comment Type E	P <b>47</b> UNH-IOL <i>Comment Status</i> <b>A</b> ler the MEDIUM symbol it say	L 33	# 329	Chang by IEI Chang (as m	ge the editing in EE Std 802.3by ge the second e odified by IEEE	struction for 73.3 to: "Change -2016) as follows:" diting instruction for 73.6.4 to Std 802.3by-2016) as follows ruction for 73.6.4, change "pa	: "Change the thin	rd paragraph of 73.6.4
	) Gb/s". Should read "1 Gb/s,			Response ACCE		Response Status C		
SuggestedRemedy				Como		4 -		
Add spaces so it reads	"1 Gb/s, 2.5 Gb/s, 5 Gb/s, 10	0 Gb/s, 25 Gb/s	, 40 Gb/s or 100 Gb/s".	Same	e as comment #	15.		
Note: The "25Gb/s" wa inserted as "25 Gb/s".	s added to this diagram by P	802.3by but in th	nat draft it is properly	<i>Cl</i> <b>73</b> Anslow, P	SC <b>73.7.4.</b> 1 Pete	<i>P</i> <b>49</b> Ciena	L <b>52</b>	# 52
Response ACCEPT.	Response Status C			<i>Comment</i> Since	51	Comment Status <b>A</b> ed to show the changes, this I	nas to be a "chan	ge" editing instruction.
				Suggester Chang		struction to: "Change 73.7.4.1	as follows:"	
				Response ACCE		Response Status C		
				Same	e as comment #	15.		

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 73 Page 15 of 75 SC 73.7.4.1 11/9/2016 9:14:48 PM

Cl 73 SC 73.10. Smith, Daniel	1 P 48 Seagate	L <b>13</b>	# 131	C/ 78 SC 78 Trowbridge, Steve	<i>Р</i> <b>53</b> Nokia	<i>L</i> 1	# 123
Comment Type E an_receive_idle	Comment Status D				Comment Status A e P802.3cd project concluded r uses it, so decided not to exte		
SuggestedRemedy correct spelling for the	his term?			SuggestedRemedy			coog operation
Proposed Response	Response Status Z			Consider whether de	ep sleep support can be omitt	ed from EEE for	P802.3cb
REJECT.				Response ACCEPT IN PRINCI	Response Status <b>C</b> PLE.		
This comment was N	WITHDRAWN by the commenter	er.		We considered Deep No change needed.			
C/ 73 SC 73.10. Anslow, Pete	1 <i>P</i> 49 Ciena	L <b>44</b>	# 53	C/ 78 SC 78.1.1	P 53	L 18	# 125
Comment Type E	Comment Status A			Slavick, Jeff	Broadcom Li	mited	
	struction says "Change the list o	of variables" the e	ntire list has to be	Comment Type <b>TR</b> The change from "th	Comment Status <b>A</b> ese" to a list of Clauses didn't	keep the entire li	ist.
SuggestedRemedy				SuggestedRemedy			
use the underline for	re list or change this to an "inse nt to show the insertion) and rer <i>Response Status</i> <b>C</b> IPLE.			Add Clause 107 to th Response ACCEPT.	ne list of Clauses can generate Response Status W	RX_LPI_ACTIV	E
use the underline for Response ACCEPT IN PRINC	nt to show the insertion) and rei Response Status <b>C</b>			Response	-	RX_LPI_ACTIV	E # <u>54</u>
use the underline for Response ACCEPT IN PRINC Change this to an 'ir Cl 73 SC 73.11.4 Lusted, Kent Comment Type TR PICS is missing cha 2.5GBASE-KX paral SuggestedRemedy	nt to show the insertion) and real Response Status C IPLE. IPLE. A.4 P 51 Intel Comment Status D ange to Std 802.3-2015 Clause T Illel detection	<i>L</i> <b>5</b> 73.11.4.4 PICS e	ws. # 214	Response ACCEPT. Cl 78 SC 78.1.1 Anslow, Pete Comment Type T The base text says " Where "these PCS to	Response Status W P 53 Ciena Comment Status A Additionally these PCS types of ypes" are the Clause 49 PCS, en changed to make the types	L 19 generate the RX_ Clause 107 PCS	# 54 _LPI_ACTIVE signal' 5, and Clause 82 PCS.
use the underline for Response ACCEPT IN PRINCI Change this to an 'ir Cl 73 SC 73.11.4 Lusted, Kent Comment Type TR PICS is missing cha 2.5GBASE-KX paral SuggestedRemedy Change PICS entry	nt to show the insertion) and rea Response Status C IPLE. nsert' editing instruction. 4.4 P 51 Intel Comment Status D ange to Std 802.3-2015 Clause 5	<i>L</i> <b>5</b> 73.11.4.4 PICS e	ws. # 214	Response ACCEPT. Cl 78 SC 78.1.1 Anslow, Pete Comment Type T The base text says " Where "these PCS t Now the text has bee from the list. SuggestedRemedy Add the Clause 107	Response Status W P 53 Ciena Comment Status A Additionally these PCS types of ypes" are the Clause 49 PCS, en changed to make the types PCS to the list.	L 19 generate the RX_ Clause 107 PCS	# 54 _LPI_ACTIVE signal 5, and Clause 82 PCS.
use the underline for Response ACCEPT IN PRINC Change this to an 'ir Cl 73 SC 73.11.4 Lusted, Kent Comment Type TR PICS is missing cha 2.5GBASE-KX paral SuggestedRemedy	nt to show the insertion) and rea Response Status C IPLE. IPLE. Additional and the status C IPLE. Additional and the status C Intel Comment Status D ange to Std 802.3-2015 Clause T Illel detection for RF5 to include 2.5GBASE-K Response Status W	<i>L</i> <b>5</b> 73.11.4.4 PICS e	ws. # 214	Response ACCEPT. Cl 78 SC 78.1.1 Anslow, Pete Comment Type T The base text says " Where "these PCS to Now the text has bee from the list. SuggestedRemedy	Response Status W P 53 Ciena Comment Status A Additionally these PCS types of ypes" are the Clause 49 PCS, en changed to make the types	L 19 generate the RX_ Clause 107 PCS	# 54 _LPI_ACTIVE signal' 5, and Clause 82 PCS.
use the underline for Response ACCEPT IN PRINCI Change this to an 'ir Cl 73 SC 73.11.4 Lusted, Kent Comment Type TR PICS is missing cha 2.5GBASE-KX paral SuggestedRemedy Change PICS entry Proposed Response ACCEPT IN PRINCI	nt to show the insertion) and rea Response Status C IPLE. IPLE. Additional and the status C IPLE. Additional and the status C Intel Comment Status D ange to Std 802.3-2015 Clause T Illel detection for RF5 to include 2.5GBASE-K Response Status W	<i>L</i> <b>5</b> 73.11.4.4 PICS e	# 214	Response ACCEPT. Cl 78 SC 78.1.1 Anslow, Pete Comment Type T The base text says " Where "these PCS to Now the text has bee from the list. SuggestedRemedy Add the Clause 107 Response	Response Status W P 53 Ciena Comment Status A Additionally these PCS types of ypes" are the Clause 49 PCS, en changed to make the types PCS to the list.	L 19 generate the RX_ Clause 107 PCS	# 54 _LPI_ACTIVE signal 5, and Clause 82 PCS.

C/ 78 SC 78.1.1

CI 78 SC 78	8.1.4	P <b>53</b>	L <b>51</b>	# 170	C/ 125	SC 125.1	.3	P <b>55</b>	L <b>47</b>	# 122
Grow, Robert		RMG Consulting	9		Trowbridge	e, Steve		Nokia		
Please note tha Table 1 conside Tables 78.2 an tables. Unless 2.5G and 5G va SuggestedRemedy While insert rel	lative to is fine, you ne in P802.3/D3.3 or this <i>Response</i> S	ubmitted to RevC (2.3bp, but failed to 2.3bv is also inser- rrects this probler 4 will be inserted ered to encourage project will comp	to update the e rting three port n, during public in the midst of publication edit	diting instructions for types into all three ation preparation, the 1000BASE-terms. fors to correct the	in this omittir positic interfa consis 2.5G a Suggested Either	ar what the ju project. In the g the redund n in the LDP- ce targeted a ce across a t tent coding fr ind 5G PHYs <i>Remedy</i> use 66B cod	e P802.3bz proje ant sync header C parity frame). V It storage network ansport network or each PHY rate using a unique li	electing different ct, they are the bit since the ali Vhile it isn't like swould be inter this departs from and makes 2.5 ne coding packplane interf	same (66B equi gnment of blocks ly, for example, erconnected with om the recent tre 5GBASE-X an "o face, or provide a	end to have a utlier" in the family of
					Response	lie for why th	is interface requir <i>Response</i>		ne cooing	
The publication	n editors did fix the bz p	problems.				PT IN PRINC	,	Status C		
Clause 125 is r	E Comment S not in IEEE Std 802.3-2		der needs some	e help to find it in the 9	http://	ww.ieee802	is outlined in Will .org/3/cb/public/n y motion #1 in M	nar16/Lo_3cb_(		
	hat precede 802.3cb. are 9 editing instruction	ons in Clause 12	5 and it is cum	persome to add "(as	C/ 125	SC 125.1	.4	P <b>57</b>	L <b>23</b>	# 117
inserted by IEE	E Std 802.3by-2016)"	to all of them.			D'Ambrosi	a, John		Futurewei, Su	ubsidiary	
and the solution introduced by l SuggestedRemedy		ication was to add 4." before the first	d: "Note that CI heading for Cla	ause 91 was ause 91.	stated	125-2 notes t that AN shal		on is optional fo Ys. No note wa	as found indicatii	K, however, in 73.3 it is ng that AN is optional ed.
Add "Note that 125 heading.	Clause 125 was introd	Juced by IEEE St	td 802.3bz-201	x." above the Clause	Suggested	Remedy				
Response	Response S	Status C			Chang	e entry in tab	ble for Row 2.5GE	BASE-KX to ind	licate that Clause	e 73 FEC is M
	RINCIPLE.				Response ACCE	PT IN PRINC	Response CIPLE.	Status C		
ACCEPT IN PR				6." above the Clause						

C/ 125 SC 125.1.4

C/ <b>125</b> SC <b>125.2.2</b> Anslow, Pete	Р <b>57</b> Сіепа	L <b>33</b>	# 56	<i>Cl</i> <b>125</b> <i>SC</i> <b>125.3</b> Donahue, Curtis	P <b>58</b> UNH-IOL	L 11	# 277
Comment Type E	Comment Status A			Comment Type T	Comment Status A		
51	ns in 125.2.2 and 125.2.3 do n	ot conform to the	e usual style.		on and added rows in Table 12	25-3 have errors, a	nd the instructions
SuggestedRemedy	struction for 125.2.2 to: "Inser	t the following pa	ragraph at the end of	SuggestedRemedy			
125.2.2:"	Istruction for 125.2.3 to: "Inser	0.1	0	2.5GBAŠE-X PCS/	uction to read "Change Table PMA, 2.5GBASE-KX PMD, 50 nge the associated notes a an	BASE-R PCS/PM	
Response ACCEPT.	Response Status C			a row above "2.5GE	e in the third row of the Sublay 3ASE-KX PMD", in the Sublay nns with appropriate values.		
C/ <b>125</b> SC <b>125.3</b> Anslow, Pete	P <b>58</b> Ciena	L 10	# 57	Response	Response Status C		
Comment Type E	Comment Status A n does not match the changes	made to the tab	le (and it should not try	5			
SuggestedRemedy Change to "Change T	Table 125-3 as follows:"			This change is cons	sistant with the last Task Forc	e comment resolut	ion.
Response	Response Status C			C/ 127 SC 127	P 59	L 1	# 58
ACCEPT.				Anslow, Pete	Ciena		
				Comment Type E	Comment Status A instruction for Clauses 127 to	130	
				SuggestedRemedy		100	
				Add a new editing ir	nstruction above the heading to online new Annexes 127A to		sert new Clauses 127
				Response ACCEPT.	Response Status C		
				<i>Cl</i> <b>127</b> SC <b>127.1.</b> Donahue, Curtis	.1 P 59 UNH-IOL	L 10	# 278
				Comment Type E "2.5Gb/s	Comment Status A		
				SuggestedRemedy Change to "2.5 Gb/s	s"		
				Response	Response Status C		

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SC 127.1.1 11/9/2016 9:14:48 PM SORT ORDER: Clause, Subclause, page, line

Demokrya Cymtia	P 59	L 15	# 279
Donahue, Curtis	UNH-IOL		
Comment Type E	Comment Status A		
	This language seems odd, wo E-X PCS) is very similar to this		
SuggestedRemedy	, ,		
,	e MDI)" to "(including MDI)".		
Response	Response Status <b>C</b>		
ACCEPT.			
C/ 127 SC 127.1.2	P 60	L 16	# 121
Trowbridge, Steve	Nokia		
stack	e box or the line width to aligne	e the appearance	with the rest of the
Adjust the width or the stack	e box or the line width to aligne Response Status <b>C</b>	e the appearance	e with the rest of the
Adjust the width or the stack Response	Response Status C	e the appearance	e with the rest of the # 280
Adjust the width or the stack Response ACCEPT.	Response Status C		
Adjust the width or the stack Response ACCEPT. C/ 127 SC 127.1.3. Donahue, Curtis	Response Status C 1 P 60 UNH-IOL Comment Status A		
Adjust the width or the stack Response ACCEPT. Cl 127 SC 127.1.3. Donahue, Curtis Comment Type E This sentence has so SuggestedRemedy Remove extra "." and	Response Status C 1 P 60 UNH-IOL Comment Status A me typos. make "Encoding" lowercase.	L <b>43</b>	# 280

ACCEPT.

C/ 127	SC 127.2.2	P 62	L <b>48</b>	# 332
Law, David		HPE		

## Comment Type T Comment Status A

Subclause 127.2.2 'Functions within the PCS' states that 'The Word Encode process continuously generates four 2.5GPII symbols based upon the TXD <31:0> and TXC <3:0> signals on the XGMII, sending them to the Word-to-Octets process.' however according to Figure 127–2 'Functional block diagram' and the TX\_XGMII state of Figure 127–4 'PCS Word Encode and Word-to-Octets state diagram' the Word Encode process generates four 2.5GPII symbols along with an associated 4 bits of transmit enable and 4 bits of transmit error.

## uggestedRemedy

Suggest that 'The Word Encode process continuously generates four 2.5GPII symbols based upon the TXD <31:0> and TXC <3:0> signals on the XGMII, sending them to the Word-to-Octets process.' should be changed to read 'The Word Encode process continuously generates four 2.5GPII symbols (tpd<3:0><7:0>), and associated 4 bits of transmit enable (tp\_en<3:0>) and 4 bits of transmit error (tp\_er<3:0>), based upon the TXD <31:0> and TXC <3:0> signals on the XGMII, sending them to the Word-to-Octets process.'

Additionally suggest that the text 'The Word-to-Octets process takes the four 2.5GPII symbols and outputs them one 2.5GPII symbol at a time to the PCS Transmit Process.' be changed to read 'The Word-to-Octets process takes the four 2.5GPII symbols, and associated transmit enable and transmit error, and transmits one 2.5GPII symbol and its associated transmit enable and transmit error at a time to the PCS Transmit Process across the 2.5GPII.'.

esponse Response Status C

ACCEPT.

[Editor's note: I also changed the 2 instances of '4 bits' to 'four bits' in the suggested remedy.]

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/ 127 SC 127.2.2 Page 19 of 75 11/9/2016 9:14:48 PM

C/ <b>127</b> SC <b>127.2.4</b> Kim, Yong	P <b>63</b> Broadcom	L	# 356	C/ <b>127</b> Donahue,	SC 127.2.4.1 Curtis	I P 63 UNH-IOL	L <b>38</b>	# 281
Comment Type TR XGMII is the adopted is compatible with 100 2.5X speed-up. It is h	Comment Status A interface for 2.5G, and the ba 0BASE-KX (and possibly pro ighly desireable to make featu a doption of XGMII (10G) run	priatary SGMII i ures that were n	n broad use) running at ot present at 1G, but	"2.5Gl Suggested Chang	ause title is "2.50 b/s". <i>IRemedy</i> ge to "2.5 Gb/s P	Comment Status A Gb/s PCS Internal Interface CS Internal Interface (2.5G sentence of the following p	PII)".	
Requres ordered set t	ransmit for link status to be op			Response ACCE		Response Status C		
	Q/ clause need to indicate opt	•		<i>Cl</i> <b>127</b> Law, David	SC <b>127.2.4.1</b>	Р <b>63</b> НРЕ	L <b>53</b>	# 333
WRT to this comment Response	Ild be expanded to make this to be submited for Sept 201 <i>Response Status</i> <b>C</b>		efer to the presentation		are two instance a it is stated that	Comment Status A es in subclause 127.2.4.1 '2 tt 'The nominal rate of opera		
•	LE. a Technical but not Required ling the specific changes need			P802. chang	3bz/D3.0 the clo ed from +/-0.01%	e to comment i-77 of on the ck precision for the XGMII o % to +/- 100ppm. While 0.0 more common when definir	lock defined in su	lbclause 46.3.1.1 was are equivalent I believe
See Kim 3cb 01 09 <sup>,</sup>	6.pdf for detailed changes.			Suggested	dRemedy			
See Kim_3cb_01_0916.pdf for detailed changes. Vote to Accept in Principle approve: 4 oppose: 1 abstain: 2				Suggest that on page 63, line 53 the text ' The nominal rate of operation is 12.8ns +/- 0.01%.' should be changed to read 'The nominal rate of operation is 78.125 Msymbols/ 100pm.' and that 'The nominal rate of operation of the single 2.5GPII symbol is 3.2ns + 0.01%.' be changed to read ' The nominal rate of operation of the 2.5GPII is 312.5 Msymbols/s +/- 100ppm.'.				
Approved.				Response		Response Status C		
[Editor's note: file located at: http://www.ieee802.org/3/cb/public/sep16/index.html]		p16/index.html]		PT IN PRINCIPL	∟E. m' instead of '100ppm')			
				0.01% 100pp 0.01%	.' should be chai m.' and that 'The	63, line 53 the text ' The nonged to read 'The nominal r nominal rate of operation of read ' The nominal rate of operation of read ' The nominal rate of m.'.	ate of operation is of the single 2.5G	s 78.125 Msymbols/s + PII symbol is 3.2ns +/-

C/ 127 SC 127.2.4.1 Page 20 of 75 11/9/2016 9:14:48 PM

C/ 127 SC 127.2. Law, David	<b>4.1</b> <i>P</i> 64 HPE	L <b>5</b>	# 334	C/ <b>127</b> Law, David	SC 127.2.4.2	<i>Р</i> <b>65</b> НРЕ	L <b>3</b>	# 371
Comment Type E Table 127-1 and 12 0, 0x00 to 0xFF. Th Encode mapping' Ta XGMII but I don';t th shorter form of a wo word 'Data'. SuggestedRemedy	Comment Status A 7-2 both list 'Data X' as an 'abbre e only other uses of 'Data X' I ca able 127-4 'Word Decode mapp ink they are related. As an aside rd or phrase, therefore not sure	n find are in Tal ing' where it is u e, I think an abb that 'Data X' is a	ble 127–3 'Word used in relation to the reviation is usual a an abbreviation of the	Comment T I believe Error, se Data va obvious SuggestedF Sugges or Err',	for correct ope blong as all oth lue B or the Err from first readi <i>t</i> it might be cle	Comment Status <b>A</b> eration 'data B/Err' in Table er lanes are Data or Error, f or encoding. The independen ng of the table. errer to change 'Data A/Err' Data C or Err' and 'Data D/E	the 2.5GPII shou ence of this from to 'Data A or Err'	Id either convey the each lane isn't entirely , 'Data B/Err' to 'Data B
Table 127-1 and 12 Response				Response ACCEP	T.	Response Status C		
	IPLE. n' in right-hand column of Table column, change 'IDLE' to 'Idle'.	127-1 and Tab	le 127-2 to read	CI <b>127</b> McClellan, E Comment T need to	/pe T	P 65 Marvell Comment Status A code_state in the last colum	L <b>5</b> In is the next valu	# 218
Grant the editor lice 46-3. Table 127-3 w [Editor's note: pleas C/ 127 SC 127.2. McClellan, Brett		ble 127-3 XGMII d not be a part c L 1	coumns match Table of XGMII nor 2.5GPII. # 219	change or do not c	wencode_state wencode_state hange wencode	in column 5 to wencode_st in the last column to wence e_state in column 5	ode_state <n+1></n+1>	
Comment Type E	Comment Status <b>A</b> obreviation for Normal Interframe	e is shown as "Il	DLE", not "Idle" as used	Response ACCEP	_	in the last column to wence Response Status C	Jue_state_next	
SuggestedRemedy	LE" in the 2.5GPII Columns Response Status C			(n) and, change (n+1	_ wencode_state )	in column 5 to wencode_st in the last column to wenco to David Law's comment.	ode_state	ch of the table.]

C/ 127 SC 127.2.4.2 Page 21 of 75 11/9/2016 9:14:48 PM

C/ 127 SC 127.2.4.2	P 65	L <b>7</b>	# 372	C/ 127 SC 127.2.4.2	P 65	L 29	# 220
Law, David	HPE	L I	# 512	McClellan, Brett	Marvell	L <b>L</b> J	# 220
	Comment Status <b>A</b> of as meaning don't care sug ne leftmost wencode_state c in of Table 127-4.			Comment Type E following the notation of also line 30 missing con also line 54, should  W		ered set is noted	as   Q  , not  Q .
SuggestedRemedy See comment. Response ACCEPT.	Response Status C			SuggestedRemedy line 29 change  Q  to   C line 30 change "Seq, Da line 54 change  W  to /V	ita S0, Seq Data S1," to "Se	eq, Data S0, Seq	, Data S1,"
C/ 127 SC 127.2.4.2	P 65	L 12	# 373	Response ACCEPT.	Response Status C		
encodings of tpd<7:0>, SuggestedRemedy	HPE <i>Comment Status</i> <b>A</b> reviation for 2.5GPII accordir tp_en, tp_er at 2.5GPII' is 'E a' should be changed to read	oata X'.		"sequence" (lowercase	P 65 UNH-IOL Comment Status A are 2 instances of "Sequenc 's"). Changing these to lowe tances in this subclause.		
Response ACCEPT.	Response Status C			SuggestedRemedy Page 65, line 31 & Page	e 65, line 32: Change "Seque	ence" to "sequer	ice".
<i>Cl</i> <b>127</b> <i>SC</i> <b>127.2.4.2</b> McClellan, Brett	P 65 Marvell	L <b>29</b>	# 221	Response ACCEPT.	Response Status C		
Comment Type E /W/ is used prior to defi	Comment Status A			C/ 127 SC 127.2.4.2 Donahue, Curtis	<i>P</i> 65 UNH-IOL	L <b>35</b>	# 283
SuggestedRemedy add a reference to the o	definition			Comment Type E "24 bit" should be "24-bit	Comment Status A		
Response ACCEPT IN PRINCIPL	Response Status <b>C</b> E.			SuggestedRemedy Change to "24-bit".			
[Editor's note: reference	e is 127.2.6.1.2 ]			Response ACCEPT.	Response Status C		

C/ 127 SC 127.2.4.2 Page 22 of 75 11/9/2016 9:14:48 PM

C/ 127 SC 127.2.4.4 McClellan, Brett	P <b>66</b> Marvell	L <b>28</b>	# 222	<i>Cl</i> <b>127</b> <i>SC</i> <b>127.2.4.5</b> Donahue, Curtis	<i>P</i> 66 UNH-IOL	L <b>53</b>	# 285
	Comment Status A Clause 48, a sequence orde	red set is noted	as   Q  , not  Q , a	Comment Type E "24 bit" should be "24-b	Comment Status A		
Signal ordered set is not SuggestedRemedy				SuggestedRemedy Change to "24-bit".			
Change  Q  to   Q   and  I Response ACCEPT.	Response Status C			Response ACCEPT.	Response Status C		
C/ 127 SC 127.2.4.4	<i>P</i> 66 UNH-IOL	L <b>31</b>	# 284	<i>Cl</i> <b>127</b> <i>SC</i> <b>127.2.4.5</b> McClellan, Brett	P <b>67</b> Marvell	L 12	# 223
Comment Type E "2.5GMII" should be "2.5	Comment Status A			Comment Type E in table 127-2 the abbre in table 127-4 in the 2.5	Comment Status A viation for Normal Interfram GPII Columns	e is shown as "I[	DLE", not "Idle" as used
SuggestedRemedy Change to "2.5GPII".				SuggestedRemedy Change "Idle" to "IDLE"	in the 2.5GPII Columns		
Response ACCEPT.	Response Status C			Response ACCEPT.	Response Status C		
C/ <b>127</b> SC <b>127.2.4.4</b> AcClellan, Brett	P <b>66</b> Marvell	L <b>41</b>	# 216				
LPI symbols, though in p immediately with sequen	Comment Status <b>R</b> mbol may be deleted. Usua athological error conditions ce ordered-set) some other or a minimum IPG following PG	(i.e. unterminate symbol may be	d packet followed				
SuggestedRemedy Consider adding a minim	um 5 octect IPG requireme	nt.					
Response	Response Status C						

C/ 127 SC 127.2.4.5

C/         127         SC         127.2.4.5         P 67         L 16         # 224           McClellan, Brett         Marvell	C/         127         SC         127.2.4.5         P 67         L 30         # 226           McClellan, Brett         Marvell
Comment Type <b>T</b> Comment Status <b>A</b> Should wencode_state be replaced by wdecode_state in the 5th and last columns? Also need to show that wdecode_state in the last column is the next value of wdecode_state SuggestedRemedy change wdecode_state in column 5 to wdecode_state <n> change wdecode_state in the last column to wdecode state<n+1></n+1></n>	Comment Type       T       Comment Status       A         transition from DATA to LPI should not be allowed, should pass through ERR first         SuggestedRemedy         line 30 and line 33 change X in 5th column to !DATA         Response       Response Status       C         ACCEPT.
or do not change wdecode_state in column 5 change wdecode_state in the last column to wdecode_state_next Response Response Status C ACCEPT IN PRINCIPLE.	Cl 127 SC 127.2.4.5 P 67 L 35 # 227 McClellan, Brett Marvell Comment Type T Comment Status A transition from DATA to Sequence should not be allowed, should pass through ERR first
[Editor's note: change wdecode_state in column 5 to wdecode_state(n) change wdecode_state in the last column to wdecode_state(n+1)	SuggestedRemedy line 35 and line 37 change X in 5th column to !DATA Response Response Status C ACCEPT.
() are used for state, <> for vectors] CI 127 SC 127.2.4.5 P 67 L 20 # 225 McClellan, Brett Marvell Comment Type T Comment Status A Data* condition is not defined, needs a definition SOP is not defined for XGMII, it should be "Start" SuggestedRemedy	Cl 127 SC 127.2.5.6 P 69 L 39 # 286 Donahue, Curtis UNH-IOL Comment Type E Comment Status A "24 bit" should be "24-bit". SuggestedRemedy Change to "24-bit".
Provide definition or note for Data* and change SOP to Start. Response Response Status C ACCEPT IN PRINCIPLE. note for Data* and change SOP to Start.	Response Response Status C ACCEPT.

C/ 127 SC 127.2.5.6 Page 24 of 75 11/9/2016 9:14:48 PM

C/         127         SC         127.2.5.6         P 69         L 40         #         246           Baden, Eric         Broadcom Limited         B	C/ 127 SC 127.2.5.7 P10 L4 # 357 Law. David HPE
Comment Type       TR       Comment Status       A         Link status (remote fault) signalling indication that are native to XGMII but not GMII sho be made optional, and stated as such.       SuggestedRemedy         Change "A sequence ordered_set is used to convey various link status such as local fa or remote fault." to " convey various optional link status"       And "The 24 bit data of the sequence ordered_set on the XGMII are mapped to S0, S1 S3 (see 127.2.4.2), and /W0/, /W1/, /W2/, /W3/ are the 8B/10B mapped version." to ordered_set on the XGMII, when implemented, are mapped to S0,"         Response       Response Status       W         ACCEPT.       Accept.       Accept.	Comment Type       T       Comment Status       A         uld       Subclause 127.2.5.7 'Data (/D/)' states that 'A data code-group conveys one octet of arbitrary data between the XGMII and the PCS.'. Is this correct since there XGMII is the interface to the PCS, and even within the PCS the interface between the word encode function and the word to octet function is not code-group based, nor is the 2.5GPII betwee the word to octet function and the transmit function. Instead isn't it the PMA service interface (tx_code-group<9:0> and rx_code-group<9:0>) and PMD service interfaces (tx_ and rx bit) that are code-group based. This seems to be further confirmed by the reference
Cl 127 SC 127.2.5.6 P 69 L 41 # 228 McClellan, Brett Marvell Comment Type E Comment Status A move "/" after the line break SuggestedRemedy page 69 line 41 move "/" after the line break also page 71 line 5 move '/" after the line break Response Response Status C ACCEPT.	ACCEPT. Cl 127 SC 127.2.6.1.2 P12 L2 # 358 Law, David HPE Comment Type E Comment Status A Suggest that there should be a reference to the subclause defining /R/. SuggestedRemedy Suggest that the text ' either: End_of_Packet delimiter part 2; End_of_Packet delimiter part 3.' should be change to read ' either End_of_Packet delimiter part 2 or End_of_Packet delimiter part 3 as specified in 127.2.5.11.'. Response Response Status C ACCEPT. Cl 127 SC 127.2.6.1.2 P12 L7 # 359 Law, David HPE

## SuggestedRemedy

Suggest that the text '... End\_of\_Packet delimiter part 1.' Should be change to read '... End\_of\_Packet delimiter part 1 as specified in 127.2.5.11.'.

Response Response Status C

ACCEPT.

C/ 127 SC 127.2.6.1.2 McClellan, Brett	P <b>72</b> Marvell	L 18	# 229	C/         127         SC         127.2.6.1.3         P 74         L 14         # 136           Smith, Daniel         Seagate
Comment Type <b>T</b> /PL_LIMIT/ is a number r	Comment Status A not a set			Comment Type ER Comment Status A capitalization in name
SuggestedRemedy change to PL_LIMIT				SuggestedRemedy should read: PMD_SIGNAL.indication(SIGNAL_DETECT).
Response ACCEPT.	Response Status C			Response Response Status C ACCEPT.
Cl 127 SC 127.2.6.1.3 Law, David	<i>P</i> <b>15</b> HPE	L 10	# 360	Cl 127 SC 127.2.6.1.3 P 74 L 19 # 335 Law, David HPE
—	Comment Status A code-group<9:0> variable st er of a PMD_UNITDATA.rea		2	Comment Type <b>T</b> Comment Status <b>A</b> The definition for the sync_status states that it is 'A parameter set by the PCS Synchronization process'. The term parameter is normally used for information

the PMA as the parameter of a PMD\_UNITDATA.request(tx\_bit) service primitive.'. Is this correct, isn't actually conveyed to the PMA as the parameter of the PMA\_UNITDATA.request(tx\_code-group<9:0>) primitive? See definition of PUDR which is

called by Figure 127-6 'PCS transmit code-group state diagram'.

#### SuggestedRemedy

Suggest that 'This vector is conveyed to the PMA as the parameter of a PMD\_UNITDATA.request(tx\_bit) service primitive.' be changed to read 'This vector is conveyed to the PMA as the parameter of the PMD\_UNITDATA.request(tx\_bit) service primitive.'.

Response ACCEF		esponse Status C		
<i>Cl</i> <b>127</b> McClellan,	SC 127.2.6.1.3 Brett	P <b>72</b> Marvell	L <b>37</b>	# 230

Comment Type E Comment Status R

is the element symbol defined anywhere in 802.3? Does it need definition?

## SuggestedRemedy

add a defnition if needed.

Response Response Status C REJECT.

## Definition not required.

SuggestedRemedy

Suggest that the text 'A parameter set by the PCS Synchronization process to reflect the status of the link as viewed by the receiver. The values of the parameter are defined for code\_sync\_status. The equation for this parameter is' be replaced with 'Alias used by the PCS receive state diagram, consisting of the following terms:'.

conveyed in a primitive related to a service interface, for example see subclause

sync\_status. Further I don't see sync\_status generated by the PCS Synchronization process, instead it is derived from code sync status (which is generated by the PCS

127.3.1.1.1 'Semantics of the service primitive'. I don't think this is the case for

Response ACCEP		Response Status	С	
<i>Cl</i> <b>127</b> Law, David	SC 127.2.6.1.3	Р <b>74</b> НРЕ	L 19	# 336
Commont T		Commont Status	٨	

Comment Type T Comment Status A

Synchronization process) and rx\_lpi\_active varibles.

Since tx\_even is generated by Figure 127–6 'PCS transmit code-group state diagram', part of the TRANSMIT function in Figure 127-2, and is used by Figure 127–4 'PCS Word Encode and Word-to-Octets state diagram', the WORD-TO-OCTET function in Figure 127-2, tx\_even seesms to cross the 2.5GPII and therefore appears to be part of the interface.

#### SuggestedRemedy

Add sync\_status to Figure 127-2.

Response Status C

#### ACCEPT.

Response

[Editor's note: comment bubble added in the draft where to do this.]

TYPE: TR/technical required ER/editorial required GR/gener	al required T/technical E/editorial G/general	C/ 127
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	SC 127.2.6.1.3
SORT ORDER: Clause, Subclause, page, line		

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C/ 127	SC 127.2.6.1.3	P <b>74</b>	L <b>24</b>	# 337	C/ 127	SC 127.
Law. David		HPE			Law, David	

## Comment Type T Comment Status A

Subclause 127.2.6.1.3 'Variables' states that 'The equation for this parameter is sync\_status = code\_sync\_status + rx\_lpi\_active.' While rx\_lpi\_active is a Boolean (see page 76, line 18), code\_sync\_status is not, instead the values for the code\_sync\_status parameter are 'FAIL' and 'OK' (see page 76, line 10). Further it is stated that The values of the parameter are defined for code\_sync\_status.'

As a result the above the output of this equation is defined as parameter with the value of either 'FAIL' or 'OK' based on a OR of a Boolean and a parameter with the value of either 'FAIL' or 'OK'. It however isn't clearly defined how the parameter values 'FAIL' and 'OK' should be mapped to Boolean values for input to, and output from, the OR operation.

#### SuggestedRemedy

Suggest that text 'Where the parameter value 'OK' maps to the Boolean value 'TRUE' and 'FAIL' maps to the Boolean value 'FALSE'.' be added after the equation.

## Response

## ACCEPT.

[Editor's note: added 'the parameter value' before FAIL:

Response Status C

"Where the parameter value 'OK' maps to the Boolean value 'TRUE' and the parameter value 'FAIL' maps to the Boolean value 'FALSE'."]

C/ 127	SC 127.2.6.1.3	P <b>74</b>	L <b>34</b>	# 338
Law, David		HPE		

#### Comment Type TR Comment Status A

Figure 127–2 'Functional block diagram' shows the input to the 'WORD-TO-OCTETS' as tpd<3:0><7:0>, tp\_en<3:0> and tp\_er<3:0>, and the output as tpd<7:0>, tp\_en, tp\_er. Similarly Figure 127–4 'PCS Word Encode and Word-to-Octets state diagram' shows assignments such as tp\_en <= tp\_en<0>, tp\_er <= tp\_er<0> and tpd<7:0> <= tpd<0><7:0>.

It is confusing to use the same variable names as both the input and output of the 'WORD-TO-OCTETS' function with the only differentiation being that the input is an array, for example tp\_en<3:0>, and the output is a bit, for example tp\_en. This also looks odd within the stats diagram as you end up with assignments such as tp\_en <= tp\_en<0>. In particular this is because in other instances the name of the array is used to mean the entire array. As an example tx\_code-group<9:0> is defined on page 75, line 7, yet in the state SPECIAL\_GO (page 83, 10) there is the assignment tx\_code-group <= tx\_o\_set without reference to the array width.

In addition the definition for tpd<x><7:0> states that 'x= 0, 1, 2, 3 for the four sets of 2.5GPII.'. That doesn't seem to match the use of tpd as an input to the 'WORD-TO-OCTETS' function in Figure 127–2, nor to the definition of the WENCODE function (page 78, line 6), where x has the value '3:0'.

I'm also not sure the definition for the input variables to the 'WORD-TO-OCTETS' function are correct. Take as an example  $tp_en<x>$  (page 74, line 38). The definition states '2.5GPII transmit data valid to the Word-to-Octets process. x= 0, 1, 2, 3 for the four sets of 2.5GPII.'

According to Figure 127–2 'Functional block diagram' the 2.5GPII is between the 'WORD-TO-OCTETS' block and the PMA. This isn't where this variable is used, instead it is used between the 'WORD ENCODE' block and the 'WORD-TO-OCTETS' block, and therefore this isn't '2.5GPII transmit data valid', it's the input to the Word-to-Octets process that 2.5GPII transmit data valid is derived from.

#### SuggestedRemedy

Suggest that since the connection between the 'WORD ENCODE' block and the 'WORD-TO-OCTETS' isn't defined as an interface, and is instead internal to the PCS Word Encode and Word-to-Octets state diagram, that:

[1] tp\_en<3:0> be changed to be we\_tp\_en<3:0> [2] tp\_er<3:0> be changed to be we\_tp\_er<3:0> [3] tpd<3:0><7:0> be changed to we\_tpd<31:0>

[4] The assignments in state TX\_XGMII be changed to:

{we\_tp\_en<3:0>,we\_tp\_er<3:0>,we\_tpd<31:0>,wencode\_state} <= WENCODE(TXC<3:0>,TXD<31:0>,wencode\_state)

[5] The assignments in state TX\_2.5GPII\_0 be changed to:

TYPE: TR/technical required ER/editorial required GR/gene	ral required T/technical E/editorial G/general	C/ 127	Page 27 of 75
	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	SC 127.2.6.1.3	11/9/2016 9:14:48 PM

SORT ORDER: Clause, Subclause, page, line

tp\_en <= we\_tp\_en<0> tp\_er <= we\_tp\_er<0> tpd<7:0> <= we\_tpd<7:0>

[6] The assignments in state TX\_2.5GPII\_1 be changed to:

tp\_en <= we\_tp\_en<1> tp\_er <= we\_tp\_er<1> tpd<7:0> <= we\_tpd<15:8>

[7] The assignments in state TX\_2.5GPII\_2 be changed to:

tp\_en <= we\_tp\_en<2> tp\_er <= we\_tp\_er<2> tpd<7:0> <= we\_tpd<23:16>

[8] The assignments in state TX\_2.5GPII\_3 be changed to:

tp\_en <= we\_tp\_en<3> tp\_er <= we\_tp\_er<3> tpd<7:0> <= we\_tpd<31:24>

[9] The definition for tpd < x > < 7:0 > be changed to read:

we\_tpd<31:0> Transmit data output of the WORD ENCODE process.

[10] The definition of tp\_en<x> be changed to read:

tp\_en<3:0> Transmit data valid output of the WORD ENCODE process.

[11] The definition of tp\_er<x> be changed to read:

tp\_er<3:0> Transmit error output of the WORD ENCODE process.

[12] Figure 127-2 'Functional block diagram be updated as follows:

tpd<3:0><7:0> be changed to we\_tpd<31:0> tp\_en<3:0> be changed to be we\_tp\_en<3:0> tp\_er<3:0> be changed to be we\_tp\_er<3:0>

[13] 127.2.4.3 'Word-to-Octets' is changed to read:

The Word-to-Octets process takes the output of the Word Encoder (we\_tp\_en<3:0>, we\_tp\_er<3:0>, we\_tpd<31:0>) and presents it one symbol at a time (tp\_en, tp\_er,

tpd<7:0>) to the PCS transmit process. we\_tpd<7:0> is presented first and we\_tpd<31:24> is presented last.

The Word-to-Octets process shall be synchronized to the PCS transmit process such that we\_tpd<7:0> and we\_tpd<23:16> are presented to the PCS transmit process which will result in the corresponding ordered set to be output to the PMA when the variable tx\_even is TRUE and we\_tpd<15:8> and we\_tpd<31:24> when the variable tx\_even is FALSE.

[14] A similar set of changes should be made to the receive path.

Response Response Status C

ACCEPT IN PRINCIPLE.

Accept as is and also fix the receive path.

Suggest that since the connection between the 'WORD ENCODE' block and the 'WORD-TO-OCTETS' isn't defined as an interface, and is instead internal to the Figure 127-4 PCS Word Encode and Word-to-Octets state diagram, that:

[1] tp\_en<3:0> be changed to be we\_tp\_en<3:0> [Editor's note: done]

[2] tp\_er<3:0> be changed to be we\_tp\_er<3:0> [Editor's note: done]

[3] tpd<3:0><7:0> be changed to we\_tpd<31:0> [Editor's note: done]

[4] The assignments in state TX\_XGMII be changed to:

{we\_tp\_en<3:0>,we\_tp\_er<3:0>,we\_tpd<31:0>,wencode\_state} <= WENCODE(TXC<3:0>,TXD<31:0>,wencode\_state) [Editor's note: done]

[5] The assignments in state TX\_2.5GPII\_0 be changed to:

tp\_en <= we\_tp\_en<0> tp\_er <= we\_tp\_er<0> tpd<7:0> <= we\_tpd<7:0> [Editor's note: done]

[6] The assignments in state TX\_2.5GPII\_1 be changed to:

tp\_en <= we\_tp\_en<1> tp\_er <= we\_tp\_er<1> tpd<7:0> <= we\_tpd<15:8> [Editor's note: done]

[7] The assignments in state TX\_2.5GPII\_2 be changed to:

C/ 127

SC 127.2.6.1.3

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 Page 28 of 75 11/9/2016 9:14:48 PM

tp en <= we tp en<2>	Cl 127 SC 127.2.6.1.3 P75 L 16 # 339
tp er <= we tp er<2>	Law, David HPE
tpd<7:0> <= we_tpd<23:16>	
[Editor's note: done]	Comment Type T Comment Status A
[8] The assignments in state TX_2.5GPII_3 be changed to:	I believe that running disparity is described in subclause 36.2.4.4 'Running disparity rules' of IEEE Std 802.3-2015, not subclause 36.2.4.3 which I believe is 'Valid and invalid code- groups.'.
tp_en <= we_tp_en<3>	SuggestedRemedy
tp_er <= we_tp_er<3>	Suggest that 'Running disparity is described in 36.2.4.3.' be changed to read 'Running
tpd<7:0> <= we_tpd<31:24>	disparity is described in 36.2.4.4.'.
[Editor's note: done]	
[9] The definition for tpd <x>&lt;7:0&gt; be changed to read:</x>	Response Response Status C ACCEPT.
we_tpd<31:0>	
Transmit data output of the WORD ENCODE process.	C/ 127 SC 127.2.6.1.3 P76 L 15 # 231
	McClellan, Brett Marvell
[10] The definition of tp_en <x> be changed to read:</x>	Comment Type E Comment Status A
tp_en<3:0>	idle_d definition uses akward language
Transmit data valid output of the WORD ENCODE process.	SuggestedRemedy
	change
[11] The definition of tp_er <x> be changed to read:</x>	"SUDI( ![/D21.5/] * ![/D2.2/])
	that uses an alternate form to support the EEE capability:
tp_er<3:0>	SUDI(![/D21.5/] * ![/D2.2/] * ![/D6.5/] * ![/D26.4/] )"
Transmit error output of the WORD ENCODE process.	to
[10] Figure 107, 0 [Functional block diagram be undeted as fellows:	"SUDI( ![/D21.5/] * ![/D2.2/]) when EEE is not supported or
[12] Figure 127–2 'Functional block diagram be updated as follows:	SUDI(![/D21.5/] * ![/D2.2/] * ![/D6.5/] * ![/D26.4/] ) when EEE is supported"
tpd<3:0><7:0> be changed to we tpd<31:0>	
tp en<3:0> be changed to be we tp en<3:0>	Response Response Status C
tp er<3:0> be changed to be we_tp_er<3:0>	ACCEPT.
[13] 127.2.4.3 'Word-to-Octets' is changed to read:	
The Word-to-Octets process takes the output of the Word Encoder (we tp en<3:0>,	
we tp er<3:0>, we tpd<31:0>) and presents it one symbol at a time (tp en, tp er,	
tpd<7:0>) to the PCS transmit process. We tpd<7:0> is presented first and	
we tpd<31:24> is presented last.	

The Word-to-Octets process shall be synchronized to the PCS transmit process such that we\_tpd<7:0> and we\_tpd<23:16> are presented to the PCS transmit process which will result in the corresponding ordered set to be output to the PMA when the variable tx\_even is TRUE and we\_tpd<15:8> and we\_tpd<31:24> when the variable tx\_even is FALSE.

[14] A similar set of changes should be made to the receive path.

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C/         127         SC         127.2.6.1.4         P 17         L 4         # 361           Law, David         HPE         HPE	C/         127         SC         127.2.6.1.4         P 77         L 18         # 233           McClellan, Brett         Marvell
Comment Type         T         Comment Status         A           The last sentence of the definition of the ENCODE function states that 'ENCODE also updates the current running disparity as per Table 36-1a-e.'. I believe it is IEEE Std 802.3-2015 subclause 36.2.4.4 'Running disparity rules' that defines how running disparity is calculated, as that subclause is referenced in the definition of tx_disparity variable which states 'Running disparity is described in 36.2.4.3.'. In addition I believe it is the ENCODE function that sets the value of the tx_disparity variable that is tested in the IDLE_DISPARITY_TEST state in Figure 127-6 'PCS transmit code-group state diagram'.	Comment Type       E       Comment Status       A         "Signal_detectCHANGE" is not capitalized.       SuggestedRemedy       C         change       "Signal_detectCHANGE" to "signal_detectCHANGE"         Response       Response Status       C         ACCEPT.       C
SuggestedRemedy Suggest that the text 'ENCODE also updates the current running disparity as per Table 36- 1a–e.'. be changed to read 'ENCODE also updates the current running disparity variable tx_disparity per the running disparity rules outlined in 36.2.4.4.'.	C/     127     SC     127.2.6.1.4     P 77     L 45     # 287       Donahue, Curtis     UNH-IOL       Comment Type     E     Comment Status     A
Response Response Status C ACCEPT.	This paragraph uses "X" to indicate a number of 2.5GPII symbols, however the title is just "WALIGN()" (no input variable X). I'm not an expert in Function definitions but I think it should be "WALIGN(X)". Also, other functions use lowercase "x" or "y", probably should be the same here.
CI 127       SC 127.2.6.1.4       P 77       L 6       # 232         McClellan, Brett       Marvell       Marvell       232         Comment Type       T       Comment Status       A         "NEXTSEQ()" is a function with no input. Why is "()" included? This function appears similar to the check_end function. Perhaps the name format should be similar.	SuggestedRemedy         Change "WALIGN()" to "WALIGN(x)". Change instances of "X" to "x".         Response       Response Status         C         ACCEPT IN PRINCIPLE.
SuggestedRemedy	There is no parameter when WALIGN is called, so we'll remove the parentheses.
Change "NEXTSEQ()" to "check_SEQ" similarly change "WALIGN()" to "WALIGN"	C/         127         SC         127.2.6.1.6         P 78         L 47         # 137           Smith, Daniel         Seagate
Response Response Status C ACCEPT IN PRINCIPLE.	Comment Type ER Comment Status A capitalization in name
NEXTSEQ: reject the name change	SuggestedRemedy
WALIGN: remove parentheses globally (also in figures) (as in comment #287)	should read: PMD_SIGNAL.indication(SIGNAL_DETECT). <i>Response</i> <i>Response Status</i> ACCEPT.

C/ 127 SC 127.2.6.1.6

C/ 127	SC 127.2.6.1.7	P 19	L <b>31</b>	# 362	C/ 127
Law. David		HPE			Law. David

## Comment Type T Comment Status A

According to the XGMII TX\_CLK specification and Figure 46–16 'TX\_CLK and RX\_CLK timing parameters' the XGMII TXC and TXD signals are only valid for 480ps before and after the rising and falling edge of TX\_CLK, and the minimum pulse width for TX\_CLK is 2.5ns. As far as I can see these specifications are not changed by IEEE Std 802.3bz-2016 when 2.5 Gb/s and 5 Gb/s operation is added to the XGMII and therefore a TX\_CLK clock duty cycle as low as 9.7% seems to be permitted for 2.5Gb/s operation.

This seems to present a problem for Figure 127–4 'PCS Word Encode and Word-to-Octets state diagram' as it will take four cg\_timer\_done, which is 12.8ns, between samples of TXC<3:0> and TXD<31:0> in the TX\_XGMII state, please see figure IEEE P802d3cb D2p0 David Law clock.pdf attached to this comment.

## SuggestedRemedy

Latching of TXC<3:0> and TXD<31:0> has to occur both on the rising and falling edge of TX\_CLK.

Response Response Status C

ACCEPT IN PRINCIPLE.

Resolution, see file kim\_3cb\_01\_1116.pdf

Cl 127	SC 127.2.6.1.7	P 79	L <b>42</b>	# 340
Law, David		HPE		

## Comment Type T Comment Status A

Subclause 46.3.1.1 'TX\_CLK (transmit clock)' of IEEE Std 802.3-2015, as modified by IEEE P802.3bz/D3.3, states that 'TX\_CLK provides the timing reference for the transfer of the TXC<3:0> and TXD<31:0> signals from the RS to the PHY. The values of TXC<3:0> and TXD<31:0> shall be sampled by the PHY on both the rising edge and falling edge of TX\_CLK.'.

Figure 127–4 'PCS Word Encode and Word-to-Octets state diagram' uses cg\_timer\_done to exit the RESET state in to the TX\_XGMII state, where TXC<3:0> and TXD<31:0> are sampled by the WENCODE function. From that point on a further four occurrences of cg\_timer\_done cause entry in to the TX\_XGMII state, and for TXC<3:0> and TXD<31:0> to be sampled again by the WENCODE function. Based this doesn't the cg\_timer timer have to be phase locked to TX\_CLK. If not drift between cg\_timer and TX\_CLK could result in loss or duplication of data.

## SuggestedRemedy

Suggest that the text 'The cg\_timer shall expire synchronously with both the rising edge and falling edge of TX\_CLK (see tolerance required for TX\_CLK in 46.3.1.1) on entry to the TX\_XGMII state in the PCS Word Encode and Word-to-Octets state diagram (see Figure 127-4).' be added to the definition of the cg\_timer timer.

Response Response Status C

ACCEPT IN PRINCIPLE.

Add the text below to the end of the definition of cg\_timer.

If XGMII is implemented, cg\_timer shall expire synchronously with the rising and falling edges of TX\_CLK (see tolerance required for TX\_CLK in 46.3.1.1). In the absence of XGMII, cg\_timer shall expire every 3.2 ns  $\pm$  100ppm.

C/ 127 SC 127.2.6.1.7 Page 31 of 75 11/9/2016 9:14:48 PM

C/         127         SC         127.2.6.2.1         P 80         L 25         # 341           Law, David         HPE         HPE	Cl         127         SC         127.2.6.2.1         P 81         L 43         # 343           Law, David         HPE
Comment Type <b>T</b> Comment Status <b>A</b> Subclause 127.2.2 'Functions within the PCS', and its subclauses 127.2.4.2 'Word Encode' 127.2.4.3 'Word-to-Octets', give a reasonably detailed description of the operation of these functions, and therefore, the associated state diagrams. Subclause 127.2.6 'Detailed functions and state diagrams', despite its title, however in subclause 127.2.6.2.1 'Word Encode and Word-to-Octets' gives only a higher level description.	Comment Type <b>T</b> Comment Status <b>A</b> In Figure 127–4 'PCS Word Encode and Word-to-Octets state diagram' suggest that 'tx_even_FALSE' should read 'tx_even=FALSE' on the exit from state TX_2.5GPII_3. SuggestedRemedy See comment.
SuggestedRemedy	Response Response Status C
Suggest that instead of duplicating at a high level, a cross reference be provided to the	ACCEPT.
earlier detailed text, and that subclause 127.2.6.2.1 'Word Encode and Word-to-Octets' be changed to read:	C/ 127 SC 127.2.6.2.2 P 81 L 2 # 374 Law, David HPE
The Word Encode function (see 127.2.4.3) and Word-to-Octets function (see 127.2.4.3) are described in the state diagram depicted in Figure 127–4, including compliance with the associated state variables as specified in 127.2.6.1.	Comment Type <b>T</b> Comment Status <b>A</b> Remove spurious logical OR at end of equation leading to entry to RESET state in Figure
Response Response Status C	127-4.
ACCEPT IN PRINCIPLE.	SuggestedRemedy Change ' mr main reset=TRUE +' to read ' mr main reset=TRUE'.
Add the following cross references in 127.2.6.2.1:	Response Response Status <b>C</b>
Word Encode function (see 127.2.4.3) Word-to-Octets function (see 127.2.4.3)	ACCEPT.
C/ 127 SC 127.2.6.2.1 P 81 L 11 # 342 Law. David HPE	C/ 127         SC 127.2.6.2.2         P 82         L 4         # 345           Law, David         HPE
	Comment Type T Comment Status A
Comment Type <b>T</b> Comment Status <b>A</b> Since tx_even is generated by Figure 127–6 'PCS transmit code-group state diagram', part of the TRANSMIT function in Figure 127-2, and is used by Figure 127–4 'PCS Word Encode and Word-to-Octets state diagram', the WORD-TO-OCTET function in Figure 127-	In Figure 127–5 'PCS transmit ordered set state diagram' suggest that 'tx_en=1 * tx_er=1' should read 'tp_en=1 * tp_er=1' on the transition from the state XMIT_DATA to ALIGN_ERR_START.
2, tx_even cross the 2.5GPII and therfore appears to be part of the interface.	SuggestedRemedy
SuggestedRemedy	See comment.
Add tx even to Figure 127-2.	Response Response Status C
Response Response Status C ACCEPT IN PRINCIPLE.	ACCEPT.
Same as comment #336.	

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/ 127 SC 127.2.6.2.2 Page 32 of 75 11/9/2016 9:14:48 PM

<i>Cl</i> <b>127</b> <i>SC</i> <b>127.2.6.</b> Law, David	2.2 P 83 HPE	L <b>26</b>	# 346	C/ <b>127</b> Law, David	SC 127.2.6.2	2.3 <i>P</i> 22 HPE	L 10	# 364
Comment Type E The 'else' in the state: Table 21–1. Suggest 802.3-215 Figure 48–	Comment Status <b>A</b> s should be uppercase, see the that the 'If' and 'then' should al 7 for example of this formatting atting for state diagram function	so be UPPERCA g.	SE. See IEEE Std	Comment The ex 127–5 XMIT_ state is Since ' * TX_C becom valid w Similar	Type <b>T</b> it condition from 'PCS transmit of LPIDLE state is s 'tp_en=0 * TX_ assert_seq = tp DSETINDicate' b e true, meaning hich isn't correct	Comment Status <b>A</b> the XMIT_DATA state to the prodered set state diagram' is assert_lpidle * TX_OSET.ing _OSET.indicate'. 	'assert_seq * TX ndicate' and to ref =0x9C)', when the o_en=0 * TX_OSE MIT_SEQUENCE	_OSET.indicate <sup>7</sup> , to the urn to the XMIT_DATA e condition 'assert_seq ET.indicate' will also E and XMIT_DATA are ', when the condition
XMIT_DATA to XMIT "TX_OSET.indicate".	2.3 P 22 HPE Comment Status A transmit ordered set state dia SEQUENCE suggest that "T>			TX_OS _XMIT_ <i>Suggested</i> Sugges	ET.indicate <sup>-</sup> wi LPIDLE and XM <i>Remedy</i> st that the cond t_Ipidle * !asser	II also become true, meaning IIT_DATA are valid which is ition 'tp_en=0 * TX_OSET.ir t_seq * tp_en=0 * TX_OSET <i>Response Status</i> <b>C</b>	g that the transition't correct. dicate' be change	n to both
SuggestedRemedy See comment. Response ACCEPT.	Response Status C			diagrar START There from C TX_OS Suggested	Type <b>E</b> fferent fonts are n'. This can be r_OF_PACKET are two differen ARRIER_EXTE SET.indicate". Ir	HPE Comment Status A being used in Figure 127–5 most clearly seen in the tran where the condition is "tp_c t fonts are used for the "=" s ND to START_ERROR whe this case there are two diff	nsition from XMIT n=1 * tp_er=0 * T ymbol. Another e re the condition is	_DATA to X_OSET.indicate". xample is the transition s "tp_en=1 * tp_er=1 *
				Response		Response Status C		

ACCEPT.

SC 127.2.6.2.3

C/ <b>127</b> SC Law, David	127.2.6.2.3	<i>Р</i> <b>22</b> НРЕ	L <b>5</b> 1	# 366	<i>Cl</i> <b>127</b> Law, David	SC 12	.2.6.2.3	<i>Р</i> <b>23</b> НРЕ	L <b>40</b>	# 369
Comment Type	T Comn	nent Status A			Comment 7	vpe T	C	omment Status A		
	DATA to XMIT_DA	rdered set state dia ΓΑ, suggest that 'Τ.		nsition from the state should read	that 'tx_	oset' sho	PCS transn uld read 'tx <u>-</u>	nit code-group state dia _o_set'.	agram' in the state	e IDLE_I2B suggest
_					Suggestedl	-				
SuggestedRemed See commen	•				See co	mment.				
					Response		Re	sponse Status C		
Response ACCEPT.	Respo	nse Status C			ACCEF	T.				
					C/ 127	SC 12	.2.6.2.3	P <b>24</b>	L 14	# 370
	127.2.6.2.3	P 23	L <b>9</b>	# 367	Law, David			HPE		
Law, David		HPE			Comment 7	ype <b>T</b>	Co	omment Status A		
in to a code-g	roup as defined in <i>ly</i>	rows 6 to 9 of Tabl	e 127-5 'Defined	needs to be encoded ordered sets'. o_set' is replaced with:	therefo which i	re I read ' nclude a d data or sp	[/COMMA/]	nd /COMMA/ are sets ( ' to mean nonmembers as the second term mo groups.	ship of the set of	special code-groups
		-group <= /K23.7/)			If both	erms me	an nonmem	bership of the set sugg	est a consistent	notation be used here,
		-group <= /K27.7/) -group <= /K29.7/)			and els	ewnere.	-			
	/V/ THEN (tx_code	-group <= /K30.7/)			Response ACCEF	T.	Re	sponse Status C		
Response ACCEPT.	Respo	nse Status C								
C/ <b>127</b> SC Law, David	127.2.6.2.3	<i>P</i> <b>23</b> HPE	L <b>26</b>	# 368						
In Figure 127			agram' in the state	e IDLE_I1B suggest						
SuggestedRemed See commen	•									
Response ACCEPT.	Respo	nse Status C								

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

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<i>Cl</i> <b>127</b> _aubach, M	SC <b>127.2.</b> lark	6.2.3	P <b>82</b> Broadcom Lir	L 9 nited	# 3	C/ <b>127</b> Law, David	SC	127.2.6.2.3	<i>Р</i> 85 НРЕ	i	L <b>5</b>	# 347
Comment T	ype E	Comn	nent Status A			Comment T	ype	т	Comment Status	A		
Line 10: Can you	: There is a c u fix so that t	dashed box o he lines do r		tt "assert_lpidle t? Also, should	ore separation. * TX_OSET.indicate". be consistent with the	code_s otherwi betwee	ync_s se syr h syno	tatus is give nc_status is c_status and	capability the relation on by Figure 127–8c identical to code_sy code_sync_status re 127–8c, only cod	; /nc_status.' given in Fig	I don't see the ure 127–8c, in	e relationship
with the Line 5: a	e figure captio align bottom	on. Need me	and C are only requ ore visual separatio nove right most arro box, should just be t	n. w a little more r	capability." is colliding ght.	Suggested Sugges code_s code_s sync_s	Remea t that ync_s ync_s atus a	dy 'For EEE ca tatus is give tatus.' be ch and code_sy	pability the relation n by Figure 127–8c anged to read 'For	ship betweer ; otherwise s EEE capabil by the definit	n sync_status sync_status is lity the relation tion of the synd	identical to
			box around the "B" e nachine? Make box		ine, but not a similar	Response ACCEF	Т.		Response Status	С		
SuggestedF	Remedy					C/ 127	SC	127.2.6.2.4	P 86	;	L <b>5</b>	# 348
As per o	comment.					Law, David			HPE			
We acc	•	, IPLE. ith the follow	nse Status <b>C</b> ving additions: andatory, so it shoul	d noit Have a da	ished box around it.	Comment 7 In Figur should Suggested See co	e 127 read 'i Remed	rx_lpi_active dy	Comment Status eccive state diagram e <= FALSE' in the L	n, part a' sug	igest that 'rx lp D state.	i active <= FALSE;'
			ed with a change to ushed box is only rec		E capability.	Response ACCEF	т.		Response Status	С		
2/ <b>127</b>	SC 127.2.	6.2.3	P 85	L <b>2</b>	# 135	C/ 127	SC	127.2.6.2.4		i	L <b>5</b>	# 349
mith, Dani		_	Seagate			Law, David			HPE			
SuggestedF	g hysteresis		nent Status A			'LINK_F	e 127 AILE nd of	D' the spurio the third, be	Comment Status eccive state diagram bus ';' at the end of t e deleted.	n, part a' sug		
Response		,	nse Status C			See co						
	PT IN PRINCI		o remove the staten	nent about hyste	rsis. It should read:	Response ACCEF	Т.		Response Status	С		
	states, to mo ACQUIRED_		the S_OF_SYNC states									
OMMENT	•	/dispatched	A/accepted R/reje	• •	I T/technical E/editorial G NSE STATUS: O/open W/	0	U/un:	satisfied Z/	vithdrawn	C/ 127 SC 127.2.6	5.2.4	Page 35 of 75 11/9/2016 9:14:49

C/ 127 SC 127.2.6.2.4 P 86 L 11 # 350	C/ 127 SC 127.2.6.2.4 P 86 L 47 # 353
.aw, David HPE	Law, David HPE
Comment Type E Comment Status A	Comment Type T Comment Status A
In Figure 127–8a 'PCS receive state diagram, part a' suggest that in the state 'WAIT_FOR_K' the spurious ';' at the end of the first assignments and the spurious '.' at the end of the second, be deleted.	In Figure 127–8a 'PCS receive state diagram, part a' suggest that a note similar to NOTE found on Figure 127–8b 'PCS receive state diagram, part b' be added for the edit from the CARRIER_DETECT states.
SuggestedRemedy	SuggestedRemedy
See comment.	Suggest that 'NOTE 2 - The transitions from the CARRIER_DETECT state is a test again the codegroup obtained from the SUDI that caused the transition to CARRIER DETECT
Response Response Status C ACCEPT.	state.' be added to Figure 127–8a 'PCS receive state diagram, part a'. The existing note will need to be designated NOTE 1.
C/ 127 SC 127.2.6.2.4 P 86 L 19 # 351	Response Response Status C
Law, David HPE	ACCEPT.
Comment Type T Comment Status A	CI 127 SC 127.2.6.2.4 P 87 L 44 # 4
In Figure 127–8a 'PCS receive state diagram, part a' suggest that 'rp-dv $\leq 0$ ;' should read 'rp dv $\leq 0$ ' in the RX K state.	Laubach, Mark Broadcom Limited
10  uv = 0  in the KA K state.	
	Comment Type E Comment Status A
SuggestedRemedy	Un-needed arrow head, remove.
SuggestedRemedy See comment.	Un-needed arrow head, remove. For consideration: some of the state boxes look like unaligned separate lines, rather than graphic box. Suggestion: make the corners look better aligned regardless of how drawn.
SuggestedRemedy	Un-needed arrow head, remove. For consideration: some of the state boxes look like unaligned separate lines, rather than
SuggestedRemedy See comment. Response Response Status C ACCEPT.	Un-needed arrow head, remove. For consideration: some of the state boxes look like unaligned separate lines, rather than graphic box. Suggestion: make the corners look better aligned regardless of how drawn. Note this could be a FM -> PDF issue.
SuggestedRemedy See comment. Response Response Status C ACCEPT. Cl 127 SC 127.2.6.2.4 P 86 L 29 # 352	Un-needed arrow head, remove. For consideration: some of the state boxes look like unaligned separate lines, rather than graphic box. Suggestion: make the corners look better aligned regardless of how drawn. Note this could be a FM -> PDF issue.
SuggestedRemedy See comment. Response Response Status C ACCEPT. C/ 127 SC 127.2.6.2.4 P 86 L 29 # 352 aw, David HPE	Un-needed arrow head, remove. For consideration: some of the state boxes look like unaligned separate lines, rather than graphic box. Suggestion: make the corners look better aligned regardless of how drawn. Note this could be a FM -> PDF issue. SuggestedRemedy As per comment. Response Response Status C
SuggestedRemedy See comment. Response Response Status C ACCEPT. C/ 127 SC 127.2.6.2.4 P 86 L 29 # 352 aw, David HPE Comment Type T Comment Status A In Figure 127–8a 'PCS receive state diagram, part a' suggest that 'rp-dv <= 0;' should read	Un-needed arrow head, remove. For consideration: some of the state boxes look like unaligned separate lines, rather than graphic box. Suggestion: make the corners look better aligned regardless of how drawn. Note this could be a FM -> PDF issue. SuggestedRemedy As per comment.
SuggestedRemedy See comment. Response Response Status C ACCEPT. 2/ 127 SC 127.2.6.2.4 P 86 L 29 # 352 aw, David HPE Comment Type T Comment Status A In Figure 127–8a 'PCS receive state diagram, part a' suggest that 'rp-dv <= 0;' should read 'rp_dv <= 0' in the IDLE_D state.	Un-needed arrow head, remove. For consideration: some of the state boxes look like unaligned separate lines, rather than graphic box. Suggestion: make the corners look better aligned regardless of how drawn. Note this could be a FM -> PDF issue. SuggestedRemedy As per comment. Response Response Status C
SuggestedRemedy See comment. Response Response Status C ACCEPT. C/ 127 SC 127.2.6.2.4 P 86 L 29 # 352 aw, David HPE Comment Type T Comment Status A In Figure 127–8a 'PCS receive state diagram, part a' suggest that 'rp-dv <= 0;' should read 'rp_dv <= 0' in the IDLE_D state. SuggestedRemedy	Un-needed arrow head, remove. For consideration: some of the state boxes look like unaligned separate lines, rather than graphic box. Suggestion: make the corners look better aligned regardless of how drawn. Note this could be a FM -> PDF issue. SuggestedRemedy As per comment. Response Response Status C ACCEPT.
SuggestedRemedy         See comment.         Response       Response Status         ACCEPT.         Cl 127       SC 127.2.6.2.4       P 86       L 29       # 352         aw, David       HPE         Comment Type       T       Comment Status       A         In Figure 127–8a 'PCS receive state diagram, part a' suggest that 'rp-dv <= 0;' should read 'rp_dv <= 0' in the IDLE_D state.	Un-needed arrow head, remove. For consideration: some of the state boxes look like unaligned separate lines, rather than graphic box. Suggestion: make the corners look better aligned regardless of how drawn. Note this could be a FM -> PDF issue. SuggestedRemedy As per comment. Response Response Status C ACCEPT. CI 127 SC 127.2.6.2.4 P88 L7 # 5
SuggestedRemedy         See comment.         Response       Response Status         ACCEPT.         Cl 127       SC 127.2.6.2.4       P 86       L 29       # 352         aw, David       HPE         Comment Type       T       Comment Status       A         In Figure 127–8a 'PCS receive state diagram, part a' suggest that 'rp-dv <= 0;' should read 'rp_dv <= 0' in the IDLE_D state.	Un-needed arrow head, remove. For consideration: some of the state boxes look like unaligned separate lines, rather than graphic box. Suggestion: make the corners look better aligned regardless of how drawn. Note this could be a FM -> PDF issue. SuggestedRemedy As per comment. Response Response Status C ACCEPT. CI 127 SC 127.2.6.2.4 P88 L7 # 5 Laubach, Mark Broadcom Limited
SuggestedRemedy         See comment.         Response       Response Status C         ACCEPT.         Cl 127       SC 127.2.6.2.4       P 86       L 29       # 352         aw, David       HPE         Comment Type       T       Comment Status A         In Figure 127–8a 'PCS receive state diagram, part a' suggest that 'rp-dv <= 0;' should read 'rp_dv <= 0' in the IDLE_D state.	Un-needed arrow head, remove. For consideration: some of the state boxes look like unaligned separate lines, rather than graphic box. Suggestion: make the corners look better aligned regardless of how drawn. Note this could be a FM -> PDF issue. SuggestedRemedy As per comment. Response Response Status C ACCEPT. CI 127 SC 127.2.6.2.4 P88 L7 # 5 Laubach, Mark Broadcom Limited Comment Type E Comment Status A Many of the line "corners" are not graphically aligned in this figure that should be aligned better. Also, seeing lines running into state boxes that should be "move behind" or simila
SuggestedRemedy         See comment.         Response       Response Status C         ACCEPT.         Cl 127       SC 127.2.6.2.4       P 86       L 29       # 352         .aw, David       HPE         Comment Type       T       Comment Status A       In Figure 127–8a 'PCS receive state diagram, part a' suggest that 'rp-dv <= 0;' should read 'rp_dv <= 0' in the IDLE_D state.	Un-needed arrow head, remove. For consideration: some of the state boxes look like unaligned separate lines, rather than graphic box. Suggestion: make the corners look better aligned regardless of how drawn. Note this could be a FM -> PDF issue. SuggestedRemedy As per comment. Response Response Status C ACCEPT. CI 127 SC 127.2.6.2.4 P 88 L7 # 5 Laubach, Mark Broadcom Limited Comment Type E Comment Status A Many of the line "corners" are not graphically aligned in this figure that should be aligned better. Also, seeing lines running into state boxes that should be "move behind" or simila to neaten things up.
SuggestedRemedy         See comment.         Response       Response Status C         ACCEPT.         Cl 127       SC 127.2.6.2.4       P 86       L 29       # 352         .aw, David       HPE         Comment Type       T       Comment Status A       In Figure 127–8a 'PCS receive state diagram, part a' suggest that 'rp-dv <= 0;' should read 'rp_dv <= 0' in the IDLE_D state.	Un-needed arrow head, remove. For consideration: some of the state boxes look like unaligned separate lines, rather than graphic box. Suggestion: make the corners look better aligned regardless of how drawn. Note this could be a FM -> PDF issue. SuggestedRemedy As per comment. Response Response Status C ACCEPT. CI 127 SC 127.2.6.2.4 P 88 L 7 # 5 Laubach, Mark Broadcom Limited Comment Type E Comment Status A Many of the line "corners" are not graphically aligned in this figure that should be aligned better. Also, seeing lines running into state boxes that should be "move behind" or simila to neaten things up. SuggestedRemedy

C/ 127 SC 127.2.6.2.4 Page 36 of 75 11/9/2016 9:14:49 PM

IEEE P802.3cb 2.5 Gb/s and 5 Gb/s Backp	lane Initial Working Group ballot comments

C/         127         SC         127.3.4         P         94         L         18         #         171           Hidaka, Yasuo         Fujitsu Lab of America         Fujitsu L	Cl 127         SC 127.7.4         P 96         L 12         # 247           Baden, Eric         Broadcom Limited         #
Comment Type <b>T</b> Comment Status <b>A</b> "Random jitter test patterns" are not specified in Annex 127A or Annex 36A which is referred from Annex 127A, although Annex 36A specifies "Jitter test patterns". SuggestedRemedy Change "Random jitter test patters" with "Jitter test patterns".	Comment Type       TR       Comment Status       D         If my comment on 127.2.5.6 on link status signalling to be made optional is accepted, PICS entry needs to be added       SuggestedRemedy         SuggestedRemedy       Add a line for LNKS; Implementation of PCS Link Status Signalling; Subclause 127.2.5.6;
Response Response Status C ACCEPT IN PRINCIPLE. See comment #253. We agree the word "Random" should not be there. The sentence is superceded by changes in comment 253,	O; Yes [] No [] Proposed Response Response Status W
	[Editor's note: this comment (#247) is dependent on acceptance of #246.]
CI 127       SC 127.6       P 94       L 43       # 172         Hidaka, Yasuo       Fujitsu Lab of America       Fujitsu Lab of America         Comment Type       E       Comment Status       A         Clause 71.8 is interconnect characteristics. Clause 71.9 is environment specifications.       SuggestedRemedy         Change the reference to 71.8 with a reference to 71.9.       Response       Response Status         CCEPT.       C       C	Cl 127 SC 127.7.5.4 P 97 L 48 # 354 Law, David HPE Comment Type E Comment Status A In item PMA1 suggest that ' of tx_code_group' should read ' of tx_code-group' . SuggestedRemedy See comment. Response Response Status C ACCEPT.
CI 127       SC 127.7       P 95       L 39       # 59         Anslow, Pete       Ciena         Comment Type       E       Comment Status       A         The publication date for P802.3cb is unknown.         SuggestedRemedy         Change "2016" to "201x" in two places each in 127.7.3.2, 128.10.2.2, 129.7.2.2, 128A.4.2.2, 128B.4.2.2, 128D.3.2.2, 130A.4.2.2, 130B.4.2.2.         This should be done by changing the variable "PICS_year" in each file in the book.         Response       Response Status         ACCEPT.	Cl 127A       SC 127A       P 157       L 6       # 253         Healey, Adam       Broadcom Ltd.         Comment Type       TR       Comment Status       A         The only 2.5GBASE-X PMD is the one defined by Clause 128 and that clause explicitly defines the test pattern to be used for each parameter. Further, Clause 128 does not appear to cite and Annex 36A test patterns. Therefore, this annex seems to have no purpose.         SuggestedRemedy       Remove the Annex.         Response       Response Status       C         ACCEPT.       Comment Status       C

C/ 127A SC 127A

C/ 127A SC 127A P 157 L 6 # 116	C/ 127B SC P 158 L 43 # 112
D'Ambrosia, John Futurewei, Subsidiary	Larry, McMillan Western Digital
Comment Type ER Comment Status A Annex127A consists of two sentences with a pointer to Annex36A. This does not help with ease of reading for the reader.	Comment Type <b>E</b> Comment Status <b>A</b> in the phrase "can detect false carrier, but these will be converted to receive error", "carrier" and "error" should be plural, not singular
SuggestedRemedy	SuggestedRemedy
Delete Annex127A. Replace the last sentnece in second paragraph of 127.3.4. with - The patterns described in Annex 36A may be used	Change to read: "can detect false carriers, but these will be converted to receive errors' i.e. change "carrier" to "carriers" and "error" to "errors"
for 2.5GBASE-X except the nominal bit rate is 2.5 times faster and any references to the GMII applies to the XGMII."	Response Response Status C
Response Response Status C	ACCEPT.
ACCEPT IN PRINCIPLE.	C/ 127B SC P158 L 45 # 113
Delete Annex 127A	Larry, McMillan Western Digital
Replace sentence on page 94, line 18: "Random jitter test patterns for 2.5GBASE-X are specified in Annex 127A."	Comment Type E Comment Status A "It is permissible for a compliant 1000BASE-X PCS transmit process to truncated the fin byte of preamble" is grammatically incorrect
With: "The patterns described in Annex 36A may be used for 2.5GBASE-X except the nominal	SuggestedRemedy
bit rate is 2.5 times faster and any references to the GMII applies to the XGMII."	Change to read: "It is permissible for a compliant 1000BASE-X PCS transmit process to truncate the first byte of a preamble" i.e. change "truncated" to "truncate" and add an "a before "preamble"
	truncate the first byte of a preamble" i.e. change "truncated" to "truncate" and add an "a before "preamble"
XGMII."	truncate the first byte of a preamble" i.e. change "truncated" to "truncate" and add an "a
XGMII." Then remove Annex 127A.	truncate the first byte of a preamble" i.e. change "truncated" to "truncate" and add an "a before "preamble" Response Response Status C ACCEPT.
XGMII."         Then remove Annex 127A.         C/ 127B       SC         P 158       L 38         Larry, McMillan         Western Digital         Comment Type         E         Comment Status	truncate the first byte of a preamble" i.e. change "truncated" to "truncate" and add an "a before "preamble" Response Response Status C ACCEPT.
XGMII."         Then remove Annex 127A.         C/ 127B       SC         P 158       L 38         Larry, McMillan	truncate the first byte of a preamble" i.e. change "truncated" to "truncate" and add an "a before "preamble"
XGMII." Then remove Annex 127A. C/ 127B SC P 158 L 38 # 111 Comment Type E Comment Status A Typo: "1000BASEX PCS will interpret each /Q/ ordered_set as four /l/ ordered set." "set" should be plural not singular SuggestedRemedy	truncate the first byte of a preamble" i.e. change "truncated" to "truncate" and add an "a before "preamble"
XGMII."         Then remove Annex 127A.         Cl 127B       SC       P 158       L 38       # 111         _arry, McMillan       Western Digital         Comment Type       E       Comment Status       A         Typo: "1000BASEX PCS will interpret each /Q/ ordered_set as four /l/ ordered set." "set"	truncate the first byte of a preamble" i.e. change "truncated" to "truncate" and add an "a before "preamble"
XGMII."         Then remove Annex 127A.         CI 127B SC P158 L 38 # 111         Carry, McMillan Western Digital         Comment Type E Comment Status A         Typo: "1000BASEX PCS will interpret each /Q/ ordered_set as four /l/ ordered set." "set" should be plural not singular         SuggestedRemedy         Change to read: "1000BASEX PCS will interpret each /Q/ ordered_set as four /l/ ordered	truncate the first byte of a preamble" i.e. change "truncated" to "truncate" and add an "a before "preamble"
XGMII."         Then remove Annex 127A.         Cl 127B SC P158 L 38 # 111         carry, McMillan Western Digital         Comment Type E Comment Status A         Typo: "1000BASEX PCS will interpret each /Q/ ordered_set as four /l/ ordered set." "set" should be plural not singular         SuggestedRemedy         Change to read: "1000BASEX PCS will interpret each /Q/ ordered_set as four /l/ ordered set." "set"         SuggestedRemedy         Change to read: "1000BASEX PCS will interpret each /Q/ ordered_set as four /l/ ordered set." "set"         SuggestedRemedy         Change to read: "1000BASEX PCS will interpret each /Q/ ordered_set as four /l/ ordered sets." i.e. change "set" to "sets"         Response       Response Status C	truncate the first byte of a preamble" i.e. change "truncated" to "truncate" and add an "a before "preamble"

C/ **127B** SC

C/ 127B SC 127B	P 158	L 6	# 254	C/ 128	SC 7.1.6	P 109	L <b>41</b>	# 1	
Healey, Adam	Broadcom Ltd.	20	# 23 <del>4</del>	McDermot		Fujitsu	241	TT	
Comment Type T A 1000BASE-X PCS/PM	Comment Status <b>R</b> IA operating at 2.5 times its sp 3. As a result, it is unclear why n-standard application.			retun le Suggestea	uase deals with oss in line 41, a Remedy	Comment Status <b>A</b> common mode output retu and the titel of figure 128-5 o	on page 110.		ut
Remove the Annex.						change 'differential mode' t ange 'differenital mode' to 'o			
Response REJECT.	Response Status C			Response ACCE		Response Status W		Ū	
This is informative and s 802.3 standard complian	erves the installed base of 2.5 It ports.	G SGMII base	ed ports operating with	<i>Cl</i> <b>128</b> Healey, Ac	SC <b>128.1</b> am	P <b>99</b> Broadcom	L <b>9</b> Ltd.	# 248	
C/ <b>127B</b> SC <b>127B</b> Hajduczenia, Marek	P <b>158</b> Charter Commu	L <b>30</b> nicatio	# 20	<i>Comment</i> Clause	51	Comment Status A kternal cross-reference sinc	e it is amended in	this draft.	
Shall, should, may, and o SuggestedRemedy Please review the use of	ch us "will" is clearly delineated can f keywords such as MUST WIL nts in Present Simple tense ap	L and CAN in	the draft and replace	Response ACCE	PT. 's note: this wil	-reference to Clause 45 and <i>Response Status</i> <b>C</b> show as green until the ch	-		rill
In this particualr location	, change "at the end of packet are correctly converted as idles		tly converted as idles"	C/ <b>128</b> Donahue,	SC <b>128.2</b> Curtis	<i>Р</i> <b>99</b> UNH-IOL	L <b>43</b>	# 289	
Response REJECT. 802.3-2015 uses the wor	Response Status C	style guide. No	t enough information	PMD",	seems to be ar previously in the	Comment Status A n inconsistantcy between "2 ne draft I only saw "2.5GBA			(
given to consider specific				Suggested Chang PMD" Page S Page 2	,	of "2.5GBASE-X PMD" to "; places.	2.5GBASE-KX PN	ID". I see "2.5GBASE	Ξ-X
				Page Response ACCE		Response Status C			

C/ 128 SC 128.2 Page 39 of 75 11/9/2016 9:14:49 PM

C/ <b>128</b> SC <b>128.2</b> Donahue, Curtis	<i>P</i> 99 UNH-IOL	L <b>46</b>	# 290	<i>Cl</i> <b>128</b> SC <b>128.3</b> Hidaka, Yasuo	P <b>102</b> Fujitsu Lab of J	L <b>20</b> America	# 173
Comment Type <b>T</b> "64B/66B". Shouldn't this	Comment Status A s be "8B/10B" for BASE-X?			Comment Type <b>T</b> Table 125-2 in clause	Comment Status <b>A</b> 125.1.4, page 57 specifies cla	use 73 AN is op	tional for 2.5GBASE-
SuggestedRemedy Change to "8B/10B".				KX, but here it is writte SuggestedRemedy	n as the PCS shall support the	e AN.	
Response	Response Status C			Change "shall support" from "O" to "M".	with "optionally support", or c	hange clause 73	3 AN in Table 125-2
ACCEPT. [Editors note: same as #	114]			Response ACCEPT IN PRINCIPL	Response Status <b>C</b> F		
C/ <b>128</b> SC <b>128.2</b> Bains, Amrik	P <b>99</b> Cisco Systems	L <b>46</b>	# 114		' with "may optionally support"		
Comment Type ER 2.5GBASE-X uses 8B/10	Comment Status A	MA/PMD and r	not	C/ 128 SC 128.6.10 Donahue, Curtis	<i>P</i> 105 UNH-IOL	L <b>26</b>	# 292
"The PMD Service Interfa blocks between the PMA and PMD entities."	ace supports the exchange of	of encoded and	scrambled 64B/66B	Comment Type E "Auto-negotiation". Sho	Comment Status A puld be "Auto-Negotiation" (ca	pital "N").	
	ice supports the exchange of	fencoded 8B/10	0B blocks between the	SuggestedRemedy Change to "Auto-Nego	tiation".		
PMA and PMD entities. Response	Response Status W			Response ACCEPT.	Response Status C		
ACCEPT.	P 101	L <b>42</b>	# 291	[Editor action: do globa	al search of document and ma	ke the same cha	ange.]
Donahue, Curtis Co <i>mment Type</i> <b>E</b> "1000BASE-KX PHY". S	UNH-IOL Comment Status A hould be "2.5GBASE-KX PH	Y".					
SuggestedRemedy Change to "2.5GBASE-k	(X PHY".						
Response ACCEPT. [Editor's note: same as a	Response Status C						

C/ 128 SC 128.6.10

/ 128 SC 128.7.1	P 106	L <b>28</b>	# 175	C/ 128 SC 128.7.1	.2 P 107	L 28	# 176
daka, Yasuo	Fujitsu Lab of	America		Hidaka, Yasuo	Fujitsu Lab	of America	
it is not clear whether t	Comment Status A (DCD)" is not an adequate ter he DCD is on the signal itself is now discouraged. We sho	or on the clock that	at genarets the	Comment Type <b>T</b> This clause specifies SuggestedRemedy	Comment Status A not only impedance of test fi	xture, but also ret	urn loss of test fixture
defined in 92.8.3.8.1.	no now alsocalagea. We one			Change the title of cl	ause from "Test fixture imped	ance" to "Test fixt	ture characteristics".
uggestedRemedy				Response	Response Status C		
It is used in the followin 128.7.1, P106, L28, L3 128.7.1.8, P110, L40	30 <sup>°</sup>	r" from the entire o	document.	ACCEPT IN PRINCI Apply this change to 128.7.1.2 and 130.7.			
128.7.1.9, P110, L47, 1 128.7.2.1, P112, L22 130.7.1, P140, L28, L3 130.7.1.8, P144, L42				<i>Cl</i> <b>128</b> SC <b>128.7.1</b> Hidaka, Yasuo	.2 <i>P</i> 107 Fujitsu Lab	L <b>30</b> of America	# 177
130.7.1.8, P144, L42 130.7.1.9, P144, L48, I 130.7.2.1, P147, L22 130.10.4.4, P152, L47	L49			<i>Comment Type</i> <b>E</b> "f" is not italic face.	Comment Status A		
128A.3.1, P164, L26 128A.3.1.6, P167, L1, 128A.3.3, P171, L25	L2			SuggestedRemedy Make "f" italic face.			
126A.3.3, P171, L23 128B.2.1, P180, L19, L 130A.3.1, P206, L26 130A.3.1.6, P209, L18				Response ACCEPT.	Response Status C		
130A.3.3, P213, L28 130B.2.1, P222, L17, L				Cl 128 SC 128.7.1 Donahue, Curtis	.2 P 107 UNH-IOL	L <b>31</b>	# <u>293</u>
esponse ACCEPT IN PRINCIPI	Response Status <b>C</b> .E.			<i>Comment Type</i> <b>E</b> "The differential The	Comment Status A differential return loss,"		
Add note to end of 128				SuggestedRemedy Change to "The diffe	rential return loss,"		
NO FE—Duty Cyle Dist	tortion is also referred to as E	ven-odd jitter (see	92.8.3.8.1).	Response ACCEPT.	Response Status C		

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	2 <b>107</b> <i>L</i> <b>34</b> , <b>3</b> agate	# 127	C/ 128 SC 128.7.1.4 Smith, Daniel	P 108 Seagate	L <b>1</b>	# 139
Comment Type ER Comment Statu ReturnLoss is not consistant with other us			Comment Type <b>TR</b> change to be a "maximum	Comment Status A		
SuggestedRemedy change to: Return_Loss			SuggestedRemedy should read: shall be less than or equ	al to 30 mV peak-to-pe	eak.	
Response Response Status ACCEPT.	3 W		Response ACCEPT.	Response Status C		
	2 <b>107</b> <i>L</i> <b>50</b> agate	# 138	Double-documentation. I	Jse table values instea	ad.	
Comment Type TR Comment Status change to be a "maximum"	s A		Change text to: The Differential peak to p	peak output voltage wh	ien TX is disabled is	defined in Table 128-4.
SuggestedRemedy should read:			C/ 128 SC 128.7.1.4 Donahue, Curtis	P <b>108</b> UNH-IOL	L 6	# 294
shall be less than or equal to 1200 mV. Response Response Status	s C		Comment Type E In Figure 128-3, it says "	Comment Status A SL - SLn <n>".</n>		
ACCEPT IN PRINCIPLE. Double-documentation. Use table values i	instead.		SuggestedRemedy Change to "SL - SL<	n>".		
Change text to: For a 1010 pattern, the Differential peak-to		ed in Table 128-4.	Response ACCEPT.	Response Status C		
C/ 128 SC 128.7.1.4 P Lusted, Kent Intel	2 <b>107</b> <i>L</i> 54	# 203	C/ <b>128</b> SC <b>128.7.1.4</b> Hidaka, Yasuo	Р <b>108</b> Fujitsu La	L <b>17</b> ab of America	# 178
			Comment Type T	Comment Status A		
Comment Type TR Comment Statu. The minimum peak-to-peak transmitter an inferred to be >720mV in the "EEE capabi it is this reader's interpretation of that EEE	nplitude is not specified in the ility" paragraph on page 108, I	linke 19. However,	Here, it is said that the c Table 128-4 specifies it b	•	shall be between -0.2	2 and 1.9V, whereas
The minimum peak-to-peak transmitter an inferred to be >720mV in the "EEE capabi it is this reader's interpretation of that EEE applies to PHYs that support the optional	nplitude is not specified in the ility" paragraph on page 108, I E paragraph that the >720 requ	linke 19. However,	Here, it is said that the c	•	shall be between -0. <i>:</i>	2 and 1.9V, whereas
The minimum peak-to-peak transmitter an inferred to be >720mV in the "EEE capabi it is this reader's interpretation of that EEE	nplitude is not specified in the ility" paragraph on page 108, I E paragraph that the >720 requ EEE.	linke 19. However, uirement only	Here, it is said that the c Table 128-4 specifies it b SuggestedRemedy	between 0 and 1.9V.	shall be between -0.3	2 and 1.9V, whereas
The minimum peak-to-peak transmitter an inferred to be >720mV in the "EEE capabi it is this reader's interpretation of that EEE applies to PHYs that support the optional SuggestedRemedy Sufficiently define the minimum peak-to-pe	nplitude is not specified in the ility" paragraph on page 108, I E paragraph that the >720 requ EEE. eak amplitude for the transmitt	linke 19. However, uirement only	Here, it is said that the c Table 128-4 specifies it t SuggestedRemedy Change "-0.2" with "0".	the table. <i>Response Status</i> <b>C</b>	shall be between -0. <i>:</i>	2 and 1.9V, whereas
The minimum peak-to-peak transmitter an inferred to be >720mV in the "EEE capabi it is this reader's interpretation of that EEE applies to PHYs that support the optional I SuggestedRemedy Sufficiently define the minimum peak-to-per Response Response Status	nplitude is not specified in the lility" paragraph on page 108, I E paragraph that the >720 requ EEE. eak amplitude for the transmitt s <b>W</b> w row for	linke 19. However, uirement only	Here, it is said that the cr Table 128-4 specifies it to SuggestedRemedy Change "-0.2" with "0". Or, make a correction to Response	the table. <i>Response Status</i> <b>C</b>	shall be between -0. <i>:</i>	2 and 1.9V, whereas

			•
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn	SC 128.7.1.4	
SORT ORDER: Clause, Subclause, page, line			

128         SC 128.7.1.4         P 108         L 19           mith, Daniel         Seagate	# 140	Cl         128         SC         128.7.1.6         P 109           Donahue, Curtis         UNH-IOL	L <b>42</b> # 295
omment Type <b>TR</b> Comment Status <b>A</b> change to be a "maximum"		Comment Type E Comment Status A "The minimum differential return loss is shown in Fig	
uggestedRemedy should read:		common-mode output return loss is shown in Figure wrong.	128-5". Also the title to Figure 128-5 i
shall be less than or equal to 30 mV within		SuggestedRemedy	
esponse Response Status C ACCEPT IN PRINCIPLE.		<ol> <li>Change "The minimum differential return loss is s minimum common-mode output return loss is showr</li> </ol>	
		2) Change the title of Figure 128-5 to "Trasnmitter co	ommon-mode return loss".
Double-documentation. Use table values instead.		Response Response Status C	
Change text to: For EEE capability, the transmitter's differential peak-to-peak Table 128-4 within 500 ns of tx_mode being set to QUIET and set to QUIET.		ACCEPT IN PRINCIPLE. 1) Change "The minimum differential return loss is s minimum common-mode output return loss is shown 2) Change the title of Figure 120.5 to "Transmitter of	n in Figure 128-5".
128 SC 128.7.1.5 P 108 L 31	<b>,3</b> # 128	2) Change the title of Figure 128-5 to "Transmitter co	ommon-mode return loss".
nith, Daniel Seagate	,	[Editor's note: same as comment #1, but without the added for consistency.]	'-' before "mode". The hyphen will be
omment Type ER Comment Status A ReturnLoss is not consistant with other usage.		C/ <b>128</b> SC <b>128.7.1.7</b> P <b>110</b> Hidaka, Yasuo Fujitsu Lab of	L 29 # 180
uggestedRemedy		Comment Type E Comment Status A	
change to: Return_Loss esponse Response Status W		Here, a reference to 128B.1 is made, but there is no The high-frequency test pattern is defined in 36A.1.	t high-frequency test pattern in 128B.1
ACCEPT.		SuggestedRemedy	
128 SC 128.7.1.5 P 109 L 21	# 179	Change the reference to 128B.1 with a reference to	36A.1.
daka, Yasuo Fujitsu Lab of America		Response Response Status C	
omment Type E Comment Status A		ACCEPT IN PRINCIPLE.	
Equation 128-3 specifies the return loss from 100MHz, wherear return loss from 10MHz.	as Figure 128-4 specifies the	128B has been deleted and replaced with changes t	o 69A.
uggestedRemedy		See file	
Change Figure 128-4 frequency to start from 100MHz.		http://www.ieee802.org/3/cb/public/nov16/mcmillan_ 130B_20161107.pdf	3cb_03_CombinedAnnex%2069A128
esponse Response Status C			

C/ 128 SC 128.7.1.7 Page 43 of 75 11/9/2016 9:14:49 PM

C/         128         SC         128.7.1.7         P         110         L         28, 3         #         150           Smith, Daniel         Seagate	C/         128         SC         128.7.1.8         P 110         L 39         # 181           Hidaka, Yasuo         Fujitsu Lab of America         Fujitsu Lab of Am
Comment Type       TR       Comment Status       A         Rise/fall time ranges are ambiguous.       SuggestedRemedy       Change wording to:       Change wording to:         transition time shall be from 30 ps to 100 ps, as measured at       Response       Response Status       W         ACCEPT IN PRINCIPLE.       Replace both sentences with:       The transition time shall as shown in Table 128-4 using the high-frequency test pattern of	Comment Type       T       Comment Status       A         Test pattern 2 and 3 in 52.9.1.1 are defined for 10GBASE-R which uses 64B66B encoding. They are too much stressful for 8B10B links due to large DC wonder that do not exist after 8B10B encoding, and not recommended.         SuggestedRemedy       Use jitter tolerance test pattern defined in 48A.5 and use jtransmitter jitter test requirements in 71.7.1.9.         Response       Response Status       C         ACCEPT IN PRINCIPLE.       Refer to comment #270.
128B.1. [Editor's note: the reference to test pattern may change. 128B.1 is incorrect.]	C/ 128 SC 128.7.1.9 P 110 L 46 # 296 Donahue, Curtis UNH-IOL
Cl 128         SC 128.7.1.8         P 110         L 38         # 270           Healey, Adam         Broadcom Ltd.         Broadcom Ltd.	Comment Type E Comment Status A Typos. "C" in "Component" and "peak-to-peaks".
Comment Type <b>T</b> Comment Status <b>A</b> The subclause states that "The data pattern for jitter measurements shall be the test patterns 2 or 3 as defined in 52.9.1.1." Test pattern 2 emulates 64B/66B encoding and test	SuggestedRemedy Change sentence to " deterministic component of 0.15 UI peak-to-peak and a" Response Response Status C
pattern 3 is PRBS31. Are these appropriate test patterns for an 8B/10B encoded link? SuggestedRemedy Reevaluate the choice of jitter test patterns for 2.5GBASE-KX.	ACCEPT.
Response Response Status C ACCEPT IN PRINCIPLE.	
The data pattern for jitter measurements shall be a square wave as defined in 52.9.1.2 with 5 consecutive 1's and 0's.	
See file http://www.ieee802.org/3/cb/public/sep16/patra_3cb_01_0916_Jitter.pdf	
Change from: "The data pattern for jitter measurements shall be the test patterns 2 or 3 as defined in 52.9.1.1."	
to "The data pattern for jitter meashrements shall be a low frequency test pattern as defined in 36A.2."	

C/ 128 SC 128.7.1.9 Page 44 of 75 11/9/2016 9:14:49 PM

Comment Type TR Comment Status A 128.7.1.10 Transmitter output waveform defines symbol periods and voltages for a square test patter that is used for the "transmitter output waveform test". However, there aren't any electrical requirements involving these times and voltages. Does Clause 128 event need a transmitted output waveform test". However, there aren't subclause equivalent to 128.7.1.10 including associated text and diagrams. or b) Add electrical requirements involving the test pattern voltages, similar to those found in 7.2.7.1.1. Response Response Status C ACCEPT IN PRINCIPLE. Remove 128.7.1.10 including associated text and diagrams. CI 128 SC 128.7.1.10 Encluding associated text and diagrams. CI 128 SC 128.7.1.10 P111 L4 # [249] Healey, Adam Broadcom Ltd. Comment Type TR Comment Status A A procedure for the measurement for v1 and v2 is provided but no requirements on the values of v1 and v2 are given. Suggested/Remedy Include requirements for v1 and v2 is provided but no requirements on the values of v1 and v2 are given. Suggested/Remedy Conserved to the measurement for v1 and v2 is provided but no requirements on the subclause. Comment Type TR Comment Status C ACCEPT IN PRINCIPLE. Comment Type TR Comment Status C ACCEPT IN PRINCIPLE. COME, see comment #192 and #193. [Editor's noie: this figure is an imported graphic that must be corrected outside of Framemaker.]	C/         128         SC         128.7.1.10         P 111         L 2         # [297]           Donahue, Curtis         UNH-IOL	C/ 128 SC 128.7.1.10 P 111 L 7 # 204
SuggestedRemedy       Either         a) Remove 128.7.1.10 including associated text and diagrams.       Intel         or       D) Add electrical requirements involving the test pattern voltages, similar to those found in 72.7.1.11.         Remove 128.7.1.10 including associated text and diagrams.       C         ACCEPT IN PRINCIPLE.       Remove 128.7.1.10 including associated text and diagrams.         V1 128       SC 128.7.1.10         P111       L 4         V 128       SC 128.7.1.10         P111       L 4         V 128       SC 128.7.1.10         Broadcom Ltd.       Sc meent Status A         A procedure for the measurement for v1 and v2 is provided but no requirements on the values of v1 and v2 are given.       Response Status C         ACCEPT IN PRINCIPLE.       Response Status C         A procedure for the measurement for v1 and v2 is provided but no requirements on the values of v1 and v2 are given.       Response C         SuggestedRemedy       Include requirements for v1 and v2 or, if there are no requirements, remove the subclause.         Response       Response Status C         ACCEPT IN PRINCIPLE.       See somment fruge is an imported graphic that must be corrected outside of Framemaker.]         Brows of v1 and v2 or, if there are no requirements, remove the subclause.       See comment fruge is an imported graphic that must be corrected outside of Framemaker.] <td><i>Comment Type</i> <b>TR</b> <i>Comment Status</i> <b>A</b> 128.7.1.10 Transmitter output waveform defines symbol periods and voltages for a square test pattern that is used for the "transmitter output waveform test". However, there aren't any electrical requirements involving these times and voltages. Does Clause 128 even need a transmitted output waveform test? It does not include equalization so is it necessary? CL70 1000BASE-KX also does not define an equalizer and is missing a</td> <td>Comment Type       ER       Comment Status       A         Figure 128-6 has a shadowing feature enabled that reduces readability.         SuggestedRemedy         Remove shadowing.         Response       Response Status       W</td>	<i>Comment Type</i> <b>TR</b> <i>Comment Status</i> <b>A</b> 128.7.1.10 Transmitter output waveform defines symbol periods and voltages for a square test pattern that is used for the "transmitter output waveform test". However, there aren't any electrical requirements involving these times and voltages. Does Clause 128 even need a transmitted output waveform test? It does not include equalization so is it necessary? CL70 1000BASE-KX also does not define an equalizer and is missing a	Comment Type       ER       Comment Status       A         Figure 128-6 has a shadowing feature enabled that reduces readability.         SuggestedRemedy         Remove shadowing.         Response       Response Status       W
or       b) Add electrical requirements involving the test pattern voltages, similar to those found in 72.7.1.11.         Response       Response Status C         ACCEPT IN PRINCIPLE.       TR         Remove 128.7.1.10       P111       L4       # 249         tealey, Adam       Broadcom Ltd.         Comment Type TR       Comment Status A         A procedure for the measurement for v1 and v2 is provided but no requirements on the values of v1 and v2 are given.       Response Comment Status A         SuggestedRemedy       Include requirements for v1 and v2 or, if there are no requirements, remove the subclause.       Response Status C         ACCEPT IN PRINCIPLE.       See comment #192 and #193.       [Editor's note: this figure is an imported graphic that must be corrected outside of Framemaker.]		[Editor's note: this figure is an imported graphic that must be corrected outside of
b) Add electrical requirements involving the test pattern voltages, similar to those found in 72.7.1.11. Response Response Status C ACCEPT IN PRINCIPLE. Remove 128.7.1.10 including associated text and diagrams. C/ 128 SC 128.7.1.10 P111 L4 # 249 Healey, Adam Broadcom Ltd. Comment Type TR Comment Status A A procedure for the measurement for v1 and v2 is provided but no requirements on the values of v1 and v2 are given. SuggestedRemedy Include requirements for v1 and v2 or, if there are no requirements, remove the subclause. Response Response Status C ACCEPT IN PRINCIPLE.	, C C	
Remove 128.7.1.10 including associated text and diagrams.         Cl 128       SC 128.7.1.10       P111       L4       # 249         Healey, Adam       Broadcom Ltd.       Broadcom Ltd.       Response Status M         Comment Type       TR       Comment Status A       Response Status W         A procedure for the measurement for v1 and v2 is provided but no requirements on the values of v1 and v2 are given.       SuggestedRemedy       See comment #192 and #193.         Include requirements for v1 and v2 or, if there are no requirements, remove the subclause.       Comment Type INCIPLE.       See comment #192 and #193.         Response       Response Status C       ACCEPT IN PRINCIPLE.	b) Add electrical requirements involving the test pattern voltages, similar to those found in 72.7.1.11. Response Response Status <b>C</b>	For v1 and v2, the average voltage in the interval t1 to t2 includes the shoulder rise/fall times of the waveform. this artificially reduces the measured voltage from the true
Healey, Adam       Broadcom Ltd.         Comment Type       TR       Comment Status       A         A procedure for the measurement for v1 and v2 is provided but no requirements on the values of v1 and v2 are given.       Accept IN PRINCIPLE.       See comment #192 and #193.         SuggestedRemedy       Include requirements for v1 and v2 or, if there are no requirements, remove the subclause.       See comment #192 and #193.       [Editor's note: this figure is an imported graphic that must be corrected outside of Framemaker.]         Response       Response Status       C         ACCEPT IN PRINCIPLE.       C	Remove 128.7.1.10 including associated text and diagrams.	consider defining a window in the flat portion of the waveform, away from the rise and
A procedure for the measurement for v1 and v2 is provided but no requirements on the values of v1 and v2 are given. SuggestedRemedy Include requirements for v1 and v2 or, if there are no requirements, remove the subclause. Response Response Status C ACCEPT IN PRINCIPLE.	Healey, Adam Broadcom Ltd.	· · · · · · · · · · · · · · · · · · ·
Response Response Status C ACCEPT IN PRINCIPLE.	values of v1 and v2 are given. SuggestedRemedy	[Editor's note: this figure is an imported graphic that must be corrected outside of
OBE, see comment #297, subclause 128.7.1.10 has been deleted.	Response Response Status C	
	OBE, see comment #297, subclause 128.7.1.10 has been deleted.	

C/ 128 SC 128.7.1.10

Cl <b>128</b> SC <b>128.7.2.</b> Smith, Daniel	1 P 112 Seagate	L <b>3</b>	# 151	C/ <b>128</b> SC <b>128.8</b> Healey, Adam	P 113 L 10 Broadcom Ltd.	# 250
Comment Type ER plural missing	Comment Status A			Comment Type ER Com The interconnect requirements	nent Status <b>A</b> are defined in Annex 128C.	
SuggestedRemedy should read: The receiver interferer	nce tolerance consists			SuggestedRemedy Correct the reference.		
Response ACCEPT IN PRINCIPI	Response Status C			Response Res	onse Status C	
the parameters specifi	nce tolerance shall consist of t ied in Table 128–6. nt 128B is being changed to 6			PCS is mandatory.	P 115 L 9 Fujitsu Lab of America ment Status A	# [184
C/ 128 SC 128.7.2.	1 P 112	L <b>5</b>	# 182	SuggestedRemedy Remove "No []" in the support of	olumn for PCS	
Hidaka, Yasuo	Fujitsu Lab of	America			onse Status C	
Comment Type <b>T</b> Clause 59.9.1.1 does	Comment Status A not exist.			ACCEPT.		
because they are defir	e test patterns 2 or 3 in 52.9.1. ned for 10GBASE-R which use 10B links due to large DC wone	es 64B66B enco	ding. They are oto	C/ <b>128</b> SC <b>128.10.3</b> Hidaka, Yasuo	P <b>115</b> L <b>28</b> Fujitsu Lab of America	# 186
encoding.	-				ment Status A	
SuggestedRemedy	- the attended of the set in Annual		7.0.4	TD is mandatory if EEE is supp	orted.	
-	est pattern as defined in Anne.	x 48A.5. See 71	.7.2.1.	SuggestedRemedy Change "No []" with "N/A []" in t	he support column for TD	
Doononoo	Response Status <b>C</b>				onse Status C	
Response ACCEPT IN PRINCIP				ACCEPT.		
Response ACCEPT IN PRINCIP Use test pattern as de						
ACCEPT IN PRINCIP	fined in Annex 36A.4.	L <b>3</b> America	# [183			
ACCEPT IN PRINCIP Use test pattern as de C/ 128 SC 128.7.2. Hidaka, Yasuo	fined in Annex 36A.4. 5 <i>P</i> 113	-	# [183			
ACCEPT IN PRINCIP Use test pattern as de CI 128 SC 128.7.2. Hidaka, Yasuo Comment Type E	fined in Annex 36A.4. 5 <i>P</i> 113 Fujitsu Lab of	-	# 183			

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/ 128 SC 128.10.3 Page 46 of 75 11/9/2016 9:14:49 PM

C/ 128 SC 128.10.3 Hidaka, Yasuo	<i>P</i> <b>115</b> Fujitsu Lab of	L <b>28</b> America	# 185	Cl         128         SC         128.10.4.1         P 116         L 35         # 134           Smith, Daniel         Seagate
Comment Type <b>T</b> EEE is referred, but not	Comment Status A t defined.			Comment Type ER Comment Status A Loopback affect on Transmitter
SuggestedRemedy Add a row to define EE	E.			SuggestedRemedy s/b: Loopback effect on Transmitter (effect is a noun, a result, not an action word)
Response ACCEPT IN PRINCIPL	Response Status <b>C</b> E.			Response Response Status C ACCEPT.
	ed in LPI which is defined abo M" that is wrong. It is to be c			CI         128         SC         128.10.4.3         P 117         L 19         # 141           Smith, Daniel         Seagate
C/ 128 SC 128.10.4. Laubach, Mark	1 P 115 Broadcom Lim	L <b>53</b> ited	# 6	Comment Type TR Comment Status A change to be a "maximum"
is missing. The line ne	Comment Status A nces in this PICS section whe eds to be there so we know th FM issue is causing this (new	nat text hasn't fall	en off the page	SuggestedRemedy         Value/Comment column should read:         Less than or equal to 30 mV within 500 ns of tx_mode = QUIET         Response       Response Status         C         ACCEPT IN PRINCIPLE.
Response ACCEPT.	Response Status C			For row TC3: remove '<' symbol in front of <1200 mV, pk-pk. Change maximum to (max). For row TC4, change to:
<i>Cl</i> <b>128</b> SC <b>128.10.4.</b> Smith, Daniel	1 P 116 Seagate	L <b>27</b>	# 133	Tx differential output voltage (max) when disabled. Remove '<' from 30 mV, pk-pk.
Comment Type ER Loopback function not e	Comment Status A effected			
SuggestedRemedy s/b: affected, not effected	ed (it's a verb)			
Response ACCEPT.	Response Status C			
[Editor's note: also chat 128.6.5 p104 line 38 130.6.5 p140 line 31 ]	3			

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/ 128 SC 128.10.4.3 Page 47 of 75 11/9/2016 9:14:49 PM

C/ <b>128A</b> SC <b>128A.1</b> Healey, Adam	P 159 Broadcom Ltd.	L 13	# 255	<i>Cl</i> <b>128A</b> Healey, Ada	SC 128A.1	P 160 Broadco		# 256
Comment Type TR Co Since this is an Annex to Cla receivers that satisfy the Clau the case, then it seems TPOD and TP5D-H and TP5H-D sh seems that channel between specific partitioning of the ge then it seems that the text an	mment Status <b>A</b> use 128, it seems reason use 128 requirements are 0-H and TP0H-D should b buld be equivalent to to T TP0D-H and TP5H-D (or heric channel described in d/or test point definitions	e suitable for this be equivalent to P4 in Clause 12 TP0H-D and TI n Annex 128C. I should be modi	application. If this is TP1 in Clause 128, 8. If so, then it P5D-H) is simply a f all of this is correct, fied to make this	Comment 1 In Figur appear Suggested	ype <b>TR</b> e 128A-1, the s to be TP1. W Remedy the TX PCB b	Comment Status A test point adjacent to the hich is correct? efore TP1 or change the Response Status C	PMD transmit functi	on is TP0 but here it
clear. If it is not correct, then associated with is unclear. Is SuggestedRemedy	this Annex defining a cor	npletely differer	it PMD?	Fix figu		how the 2nd reference to	o TP1 as TP0 and ele	ongate the path to make
Clarify the relationship betwe Response Res	en a 2.5GBASE-KX PMD <i>ponse Status</i> <b>C</b>	and the 2.5GS	EI.	[Editor'	s note: duplica	te of #257]		
ACCEPT. [Editor's note: the commente		aragraph as follo	ows by adding this	<i>Cl</i> <b>128A</b> Healey, Ada	SC 128A.1	P 160 Broadco		# 257
before the last sentence:				Comment 7		Comment Status A		
The compliance point definition Annex 128C, such that the te equivalent to TP1 defined in <i>J</i> are equivalent to TP4 defined ]	st points TP0D-H and TP Annex 128C, and TP5D-H in Annex 128C.	0H-D defined ir I and TP5H-D d	this Annex are	dB in a loss. Suggestedl	nother part of t Re <i>medy</i>	IP1D-H to the connector he figure. What has char between the diagrams in	nged? Similarly for th	
C/ 128A SC 128A.1	<i>P</i> 160	L 8	# 194	Response		Response Status C		
lidaka, Yasuo	Fujitsu Lab of Ar	merica		ACCEF	T IN PRINCIP	LE.		
Comment Type <b>T</b> Co The definitions of the complia compliance board are not cle transmit function is labeled as Figure 128A-2. In Figure 128, the top figure but 1.375dB in	arly shown in the figures. TP0_D-H in Figure 128, A-2, the loss from TP1_D	For instance, the A-1, but labeled	ne output of PMD as TP1_D-H in	it look o See file	lifferrent.	how the 2nd reference to g/3/cb/public/sep16/calb		
SuggestedRemedy								
Define the compliance points	clear.							
Response Res	ponse Status <b>C</b>							
ACCEPT IN PRINCIPLE.								
Fix figure 128A-2 to show the it look differrent.	2nd reference to TP1 as	s TP0 and elong	pate the path to make					
[Editor's note: duplicate of #2	57]							
TYPE: TR/technical required ER COMMENT STATUS: D/dispatch SORT ORDER: Clause, Subclaus	ed A/accepted R/rejecte			0	U/unsatisfied		C/ 128A SC 128A.1	Page 48 of 75 11/9/2016 9:14:49

C/ 128A SC 128A.1.1 P1 Smith, Daniel Seag	161 <i>L</i> 29 gate	# 148	C/ <b>128A</b> SC <b>128A.3.1</b> Calbone, Anthony	P 164 Seagate	L <b>7</b>	# 74
Comment Type <b>TR</b> Comment Status change to be a "maximum"	B D		<i>Comment Type</i> <b>E</b> The Units column is not	Comment Status A wide enough for the title Ur	nits, so the "s" is	on a second line.
SuggestedRemedy Value/Comment column should read: The bit error ratio (BER) shall be less than	or equal to 10-12 with any	errors	SuggestedRemedy Widen Units column so Response	the whole word fits into one Response Status <b>C</b>	line.	
Proposed Response Response Status REJECT.	Z		ACCEPT.			
This comment was WITHDRAWN by the co	ommenter.		C/ <b>128A</b> SC <b>128A.3.1</b> Calbone, Anthony	P <b>164</b> Seagate	L 17	# 73
	163 <i>L</i> 17 dcom Ltd.	# 264	<i>Comment Type</i> <b>E</b> The return loss value is	Comment Status A pointing to both an insertior	n loss and return	loss equation.
Comment Type TR Comment Status	5 <b>A</b>		SuggestedRemedy Change the value to "Se	ee Equation (128A-2)"		
In the second part of the figure, it seems th be TP5H-D. the test point at the connectior should be "Rx PCB", and the AC coupling of the second se	n interface should be TP4I	H-D, the "Tx PCB"	Response ACCEPT.	Response Status C		
SuggestedRemedy Modify the figure per the comment.			C/ 128A SC 128A.3.1.2 Donahue. Curtis	2 <i>P</i> 165 UNH-IOL	L 6	# 298
Response Response Status ACCEPT. File: calbone_3cb_01_0916.pdf	С		Comment Type E In Figure 128A-6 there a	Comment Status A are two instances of "SLFigure 120A-6 in 130A.3.1.		should be "SL <n>".</n>
	164 L 1 ter Communicatio	# 21	SuggestedRemedy	p>" to "SL <n>" in Figure 12</n>		·6.
Comment Type E Comment Status Table 128A-1 uses "max." and "max" - white			Response ACCEPT.	Response Status C		
SuggestedRemedy Please use "max." consistently. The same	goes for "min."					
Response Response Status ACCEPT IN PRINCIPLE.	С					
Change all instances of (max.) to (max) and entire Draft.	d all instances of (min.) to	(min) throughout the				

C/ 128A SC 128A.3.1.2

C/ 128A         SC 128A.3.1.4.1         P 166         L 32         # 195           Hidaka, Yasuo         Fujitsu Lab of America	C/         128A         SC         128A.3.1.4.1         P         166         L         33         #         235           Ewen, John         GlobalFoundries         GlobalFoundries         Figure 1         Figure 2         Figure 2<
Comment Type TR Comment Status A The linear pulse fitting procedure in 94.3.12.5.2 is for PAM4 signal, and PRBS13Q is a	Comment Type <b>T</b> Comment Status <b>R</b> Is Np=100 correct? This seems an order of magnitude larger than other clauses.
PAM4 test pattern. SuggestedRemedy	SuggestedRemedy Change to Np=3 to be consistent with SNDR definition in 128A.3.1.7
Use the linear pulse fitting procedure for NRZ that is described in 92.8.3.5.1 and use PRBS9 test pattern.	Response Response Status C
Response Response Status C ACCEPT IN PRINCIPLE.	REJECT. Np=100 is correct.
See comment #258.	[Editor note: Related to comment #259.]
C/         128A         SC         128A.3.1.4.1         P 166         L 33         # 236           Ewen, John         GlobalFoundries         GlobalFoundries         Fille         GlobalFoundries         GlobalFound	C/ 128A SC 128A.3.1.4.1 P 166 L 33 # 258 Healey, Adam Broadcom Ltd.
Comment Type       T       Comment Status       A         Why is a PAM4 pattern used for the linear fit pulse response when normal operation uses NRZ? Also the reference to 120.5.10.2.3 appears incorrect.       SuggestedRemedy	Comment Type TR Comment Status A PRBS13Q is a PAM4 test pattern and seems to be inappropriate for this interface. Furthermore, 94.3.12.5.2 pertains to the measurement of PAM4 signals. Note the similar issue with 128A.3.3.1.
Use a PRBS9 test pattern for the linear pulse fit as specified in 120.5.11.1.2	SuggestedRemedy
Response Response Status C ACCEPT IN PRINCIPLE.	Change the reference to 92.8.3.5 or a similar NRZ-based measurement procedure. Note that 92.8.3.5 specified the use of PRBS9 so no expection for the test pattern would likely be required in this case.
Comment #258 is the correct text and references needed here.	Response Response Status C
C/ 128A SC 128A.3.1.4.1 P 166 L 33 # 126	ACCEPT IN PRINCIPLE.
Slavick, Jeff Broadcom Limited	Change the wording to the text shown below.
Comment Type <b>TR</b> Comment Status <b>A</b> PRBS13Q is a PAM4 data pattern. If you want to use a NRZ PRBS13 pattern for Linear fit	The linear fit pulse response is characterized using the procedure described in 92.8.3.5.1 with the exception that the measurement is performed at TP4H-D rather than TP2 and Ng =100.
measurements you'll need to add that pattern to Clause 127	
SuggestedRemedy Add PRBS13 pattern definition, using the same polynomial that PRBS13Q uses to Clause	
SuggestedRemedy	

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/ 128A SC 128A.3.1.4.1 Page 50 of 75 11/9/2016 9:14:49 PM

C/         128A         SC         128A.3.1.4.2         P 166         L 40         # 259           lealey, Adam         Broadcom Ltd.         Broadcom Ltd. <th>C/         128A         SC         128A.3.1.6         P 166         L 54         #         260           Healey, Adam         Broadcom Ltd.         B</th>	C/         128A         SC         128A.3.1.6         P 166         L 54         #         260           Healey, Adam         Broadcom Ltd.         B
Comment Type T Comment Status A	Comment Type T Comment Status A
Table 128A.3.1 already states that "A 2.5GSEI host output shall meet the specifications defined in Table 128A–1 if measured at TP4H-D" and Table 128A-1 includes the parameters defined in this subclause. It is not necessary to state the requirements again.	If the maximum permitted deterministic jitter is 0.12 UI and the maximum permitted random jitter is 0.2 UI, how could a compliant implementation exhibit jitter in excess of 0.3 UI? The specification seems to set the maximum jitter to 0.35 UI despite this.
SuggestedRemedy	SuggestedRemedy
Remove the last two sentences from this subclause. Note similar issues in 128A.3.1.6, 128A.3.1.7, 128A.3.3.2, and 128A.3.3.3.	Check the jitter math. Note that DCD is considered a component of deterministic jitter as stated in 128A.3.1.6.
Response Response Status C	Response Response Status C
ACCEPT.	ACCEPT IN PRINCIPLE.
[Editor's note: a) completed 128A.3.1.6 and 128A.3.3.2. b) Deleted the first sentence in 128A.3.1.7 and 128A.3.3.3]	In Table 128A-1: Change maximum Tj to 0.32 UI.
2/ 128A SC 128A.3.1.5 P 166 L 49 # 299	See file http://www.ieee802.org/3/cb/public/sep16/patra 3cb 01 0916 Jitter number.pdf
Donahue, Curtis UNH-IOL	http://www.ieeeoo2.org/3/cb/public/sep10/patra_3cb_01_0910_3itter_httmber.pub
Comment Type E Comment Status A	Change "Duty Cycle Distortion" line by indenting it and changing text to: Duty Cycle Distortion (included in Dj)
"5"	
SuggestedRemedy	C/         128A         SC         128A.3.2         P 167         L 17         # 75           Calbone, Anthony         Seagate
Change to "five".	
Pesponse Response Status C	Comment Type E Comment Status A The second sentence is inconsistent with the other input characteristics sections.
ACCEPT.	Suggested Remedy
	Remove the second sentence: "The test transmitter then transmits any valid PCS output (such as scrambled idle)."
	Response Response Status C ACCEPT.
	CI 128A SC 128A.3.2 P167 L 23 # 78
	Calbone, Anthony Seagate
	Comment Type E Comment Status A The Units column is not wide enough for the title Units, so the "s" is on a second line.
	SuggestedRemedy
	Widen Units column so the whole word fits into one line.
	Response Response Status C

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 C/
 128A
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 COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 SC
 128A
 11/9/2016 9:14:49 PM

 SORT ORDER: Clause, Subclause, page, line
 SC
 128A
 11/9/2016 9:14:49 PM

	D467	1.24	# [22]	C/ 128A SC 128A.3.2.2	D467	1.29	# 400
C/ <b>128A</b> SC <b>128A.3.2</b> Hajduczenia, Marek	P <b>167</b> Charter Comr	L 24	# 22	C/ <b>128A</b> SC <b>128A.3.2.2</b> Hidaka, Yasuo	<i>P</i> <b>167</b> Fujitsu Lab o	L <b>38</b> If America	# 199
Comment Type E no need to break the line column and shrink the Pa column to make sure "s" Also, add "-" in Units colu uggestedRemedy Per comment- there are r Please make sure all tabl Desponse ACCEPT. Put "-"" in all blank 'Units'	Comment Status A in "See Equation (128A-2) rameter column to competence	" statement - ex nsate. Also, extense sent / needed hat need the as n where no units ut the draft.	end the size of Units sociated change. s are needed / defined.	Comment Type T Com It is not clear how the crosstali Figure 128A-9, the crosstalk is 128A-9 seem identical. SuggestedRemedy Apply crosstalk during test.	ament Status A ik is applied in the re- s applied only during bonse Status C ment for the Tx drive s will require a proces	ceiver interferend the calibration. A r that provides th	Also, Figure 128A-8 and ne crosstalk during a
until this is resolved, through 128A SC 128A.3.2 albone, Anthony Comment Type E The interference tolerance SuggestedRemedy Change 128A.3.2.1 to 12	Ighout the draft. P 167 Seagate Comment Status A e Subclause reference is in 3A.3.2.2	L <b>27</b>	# <u>76</u>	<ul> <li>remove the TX that was pres</li> <li>move noise injection to after</li> <li>text and figures need to chan</li> <li>change 128A.3.2.2, 128A.3.4</li> <li> Calbone_3cb_02_0916.pdf</li> <li> Calbone_3cb_03_0916.pdf</li> <li>note changes to figures 128A</li> </ul>	ent during calibration the ISI channel uge 4.2, 130A.3.2.2, 130A f (and) f	1.3.4.2 according	g to documents
ACCEPT.	Response Status C			C/ 128A SC 128A.3.2.2 Calbone, Anthony	P 167 Seagate	L <b>40</b>	# 79
SuggestedRemedy Change 128A.3.2.1 to 12	P 167 Seagate Comment Status A ause reference is incorrect BA.3.2.3 Response Status C	L 28	# <u>77</u>	Comment Type E Com The Figure 128A-9 reference is SuggestedRemedy Change 128A-9 to 128A-8.	nment Status A		

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/ 128A SC 128A.3.2.2 Page 52 of 75 11/9/2016 9:14:49 PM

C/ 128A         SC 128A.3.2.2         P 168         L 30         # 9           Laubach, Mark         Broadcom Limited         Broadcom Limited	C/         128A         SC         128A.3.2.3         P 169         L 1         # 201           Hidaka, Yasuo         Fujitsu Lab of America
Comment Type <b>T</b> Comment Status <b>A</b> What is "Termination", e.g., definition, requirements, etc.? Searching the draft, can only	Comment Type <b>T</b> Comment Status <b>A</b> the host interference tolerance test
find this word in this and similar CI 128A figures. So, what is the proper termination for the calibration and test setups?	SuggestedRemedy
SuggestedRemedy	the host jitter tolerance test
Define termination as used in this draft.	Response Response Status C
Response Response Status C	ACCEPT IN PRINCIPLE.
ACCEPT IN PRINCIPLE.	Replace with:
Add footnote with asterisk on first instance with the words:	the jitter tolerance test
* The single-ended transmit signals are terminated in 50 ohms to provide a 100 ohm differential termination.	C/         128A         SC         128A.3.2.3         P 170         L 11         # [8]           Laubach, Mark         Broadcom Limited         Broadcom
[Editor's note: first occurance is Figure 128A-8.]	Comment Type E Comment Status A
1 128A SC 128A.3.2.3 P 168 L 52 # 80	The alignment of box corners, lines, and arrows could be improved. Arrow heads in the same diagram should most often be the same size. In many figures, text is uncomfortab
omment Type E Comment Status A The Figure 128A-10 reference is incorrect.	know it might be considered time consuming) SuggestedRemedy
Comment Type E Comment Status A The Figure 128A-10 reference is incorrect. AuggestedRemedy	line, but after getting through the entire doc some over all neatening might be nice (yes, I know it might be considered time consuming) SuggestedRemedy Suggested, as per comment.
Comment Type E Comment Status A The Figure 128A-10 reference is incorrect. SuggestedRemedy Change 128A-10 to 128A-9.	line, but after getting through the entire doc some over all neatening might be nice (yes, I know it might be considered time consuming) SuggestedRemedy
omment Type       E       Comment Status       A         The Figure 128A-10 reference is incorrect.       UggestedRemedy         Change 128A-10 to 128A-9.       Esponse       Response Status         C       ACCEPT.       C	line, but after getting through the entire doc some over all neatening might be nice (yes, I know it might be considered time consuming) SuggestedRemedy Suggested, as per comment. Response Response Status C
tomment Type E Comment Status A The Figure 128A-10 reference is incorrect. uggestedRemedy Change 128A-10 to 128A-9. Pesponse Response Status C ACCEPT. 1 128A SC 128A.3.2.3 P 168 L 52 # 200	line, but after getting through the entire doc some over all neatening might be nice (yes, I know it might be considered time consuming) SuggestedRemedy Suggested, as per comment. Response Response Status C ACCEPT. [Editor's note: this varies by the viewer. The Frame sources look ok. Please identify specific figures to change.]
omment Type E Comment Status A The Figure 128A-10 reference is incorrect. uggestedRemedy Change 128A-10 to 128A-9. esponse Response Status C ACCEPT. / 128A SC 128A.3.2.3 P 168 L 52 # 200 idaka, Yasuo Fujitsu Lab of America omment Type E Comment Status A	line, but after getting through the entire doc some over all neatening might be nice (yes, I know it might be considered time consuming) SuggestedRemedy Suggested, as per comment. Response Response Status C ACCEPT. [Editor's note: this varies by the viewer. The Frame sources look ok. Please identify
omment Type       E       Comment Status       A         The Figure 128A-10 reference is incorrect.       uggestedRemedy         Change 128A-10 to 128A-9.       esponse       Response Status       C         ACCEPT.       ACCEPT.       Image: Comment Status       A       Employee       Image: Comment Status       C         Idaka, Yasuo       Fujitsu Lab of America       Fujitsu Lab of America       Image: Comment Status       A         Table 128A-10 is applied peak-to-peak sinusoidal jitter.       Image: Comment Status       A	line, but after getting through the entire doc some over all neatening might be nice (yes, I know it might be considered time consuming) SuggestedRemedy Suggested, as per comment. Response Response Status C ACCEPT. [Editor's note: this varies by the viewer. The Frame sources look ok. Please identify specific figures to change.] CI 128A SC 128A.3.3 P 171 L 7 # [82 Calbone, Anthony Seagate Comment Type E Comment Status A
comment Type       E       Comment Status       A         The Figure 128A-10 reference is incorrect.       uggestedRemedy         Change 128A-10 to 128A-9.       C         response       Response Status       C         ACCEPT.       ACCEPT.       200         idaka, Yasuo       Fujitsu Lab of America       # 200         comment Type       E       Comment Status       A         Table 128A-10 is applied peak-to-peak sinusoidal jitter.       uggestedRemedy       UggestedRemedy	line, but after getting through the entire doc some over all neatening might be nice (yes, I know it might be considered time consuming) SuggestedRemedy Suggested, as per comment. Response Response Status C ACCEPT. [Editor's note: this varies by the viewer. The Frame sources look ok. Please identify specific figures to change.] Cl 128A SC 128A.3.3 P 171 L 7 # 82 Calbone, Anthony Seagate Comment Type E Comment Status A The Units column is not wide enough for the title Units, so the "s" is on a second line.
Comment Type       E       Comment Status       A         The Figure 128A-10 reference is incorrect.       SuggestedRemedy         Change 128A-10 to 128A-9.       C         Response       Response Status       C         ACCEPT.       C/       128A.SC 128A.3.2.3       P 168       L 52       # 200         Idaka, Yasuo       Fujitsu Lab of America       C       Comment Type       E       Comment Status       A	line, but after getting through the entire doc some over all neatening might be nice (yes, I know it might be considered time consuming) SuggestedRemedy Suggested, as per comment. Response Response Status C ACCEPT. [Editor's note: this varies by the viewer. The Frame sources look ok. Please identify specific figures to change.] CI 128A SC 128A.3.3 P 171 L 7 # [82 Calbone, Anthony Seagate Comment Type E Comment Status A

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

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Hajduczenia, Marek       Charter Communicatio       Calbone, Anthony       Seagate         Comment Type       E       Comment Status       A       Comment Type       E       Comment Status       A         Is "per lane (range)" really intended to be crossed out?       The Signal-to-noise-and-distortion ratio (min) Subclause reference is incorred         SuggestedRemedy       SuggestedRemedy       SuggestedRemedy       Change 128A.3.3.2 to 128A.3.3.3         Similar issue on page 206, line 8       Response       Response Status       C         ACCEPT IN PRINCIPLE.       C       ACCEPT.       ACCEPT.	t [196
Is "per lane (range)" really intended to be crossed out? SuggestedRemedy Remove the cross-out Similar issue on page 206, line 8 Response Response Status C ACCEPT IN PRINCIPLE. C/ 128A SC 128A.3.3 P171 L8 # 63 C/ 128A SC 128A.3.3 P171 L8 # 63 C/ 128A SC 128A.3.3 P171 L8 # 63 Anslow, Pete Ciena Comment Type T Comment Status A "per lane (range)" is shown in strikethrough font which is inappropriate for a new annex. Since this parameter is indeed a range (not a min or max value), "(range)" seems correct. SuggestedRemedy Use the linear pulse fitting procedure for NRZ that is described in 92.8.3.5.1 PRBS9 test pattern.	t [196
Remove the cross-out       Similar issue on page 206, line 8         Response       Response Status         ACCEPT IN PRINCIPLE.       C         Same as comment #63.       Cl 128A SC 128A.3.3         C/ 128A SC 128A.3.3       P 171       L 8         Same as comment #63.       Fujitsu Lab of America         C/ 128A SC 128A.3.3       P 171       L 8         Same as comment #63.       Ciena         C/ 128A SC 128A.3.3       P 171       L 8         Comment Type       T       Comment Status         Comment Type       T       Comment of the parameter is indeed a range (not a min or max value), "(range)" seems correct.         SuggestedRemedy       Use the linear pulse fitting procedure for NRZ that is described in 92.8.3.5.1         PRBS9 test pattern.       PRBS9 test pattern.	
Same as comment #63.         Cl 128A SC 128A.3.3       P 171       L 8       # 63         Anslow, Pete       Ciena         Comment Type       T       Comment Status       A         "per lane (range)" is shown in strikethrough font which is inappropriate for a new annex. Since this parameter is indeed a range (not a min or max value), "(range)" seems correct.       SuggestedRemedy         SuggestedRemedy       Use the linear pulse fitting procedure for NRZ that is described in 92.8.3.5.1	
Ciena       Ciena       The linear pulse fitting procedure in 94.3.12.5.2 is for PAM4 signal, and PRB PAM4 test pattern.         Comment Type       T       Comment Status       A         "per lane (range)" is shown in strikethrough font which is inappropriate for a new annex. Since this parameter is indeed a range (not a min or max value), "(range)" seems correct.       SuggestedRemedy       Use the linear pulse fitting procedure for NRZ that is described in 92.8.3.5.1         SuggestedRemedy       Use the linear pulse fitting procedure for NRZ that is described in 92.8.3.5.1	S13Q is a
"per lane (range)" is shown in strikethrough font which is inappropriate for a new annex. Since this parameter is indeed a range (not a min or max value), "(range)" seems correct. UggestedRemedy Use the linear pulse fitting procedure for NRZ that is described in 92.8.3.5.1 PRBS9 test pattern.	
	and use
Response     Response Status     C     ACCEPT IN PRINCIPLE.       ACCEPT IN PRINCIPLE.     See comment #258.	
[Editor's note: delete 'per lane (range)'] Ewen, John GlobalFoundries	237
Image: Plane Science       Pith       L 9       # 81       Comment Type       T       Comment Status       R         Is Np=100 correct? This seems an order of magnitude larger than other clause albone, Anthony       Seagate       Is Np=100 correct? This seems an order of magnitude larger than other clause albone.	ses.
Comment Type       E       Comment Status       A       SuggestedRemedy         Comment Type       E       Comment Status       A       Change to Np=3 to be consistent with SNDR definition in 128A.3.3.3	
Text is crossed out in the signaling rate parameter       Response       Response Status       C         uggestedRemedy       REJECT.         Remove the "per lane (range)" text that is crossed out.       REJECT.	
Response Response Status C Np=100 is correct.	
ACCEPT. [Editor note: Related to comment #259.] [Editor's note: duplicate of #23]	

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IEEE P802.3cb 2.5 Gb/s and 5 Gb/s Back	plane Initial Working Group ballot comments

C/ 128A SC 128A.3.3.1 Ewen, John	P <b>171</b> GlobalFoundrie	L 38	# 238	C/         128A         SC         128A.3.4         P 172         L 8         # 85           Calbone, Anthony         Seagate         Seagate         Seagate         Seagate
Why is a PAM4 pattern use NRZ? Also the reference to SuggestedRemedy Use a PRBS9 test pattern	o 120.5.10.2.3 appears inc	orrect.	·	Comment Type       E       Comment Status       A         The Units column is not wide enough for the title Units, so the "s" is on a second line.         SuggestedRemedy         Widen Units column so the whole word fits into one line.         Response       Response Status       C         ACCEPT.         Cl       128A       SC 128A.3.4.3       P 173       L 35       # 86
See comment #258.	0.474	1.0	# [200	Calbone, Anthony Seagate
C/ <b>128A</b> SC <b>128A.3.3.2</b> Donahue, Curtis	<i>P</i> 171 UNH-IOL	L <b>8</b>	# 300	Comment Type E Comment Status A The Figure 128A-10 reference is incorrect.
Comment Type E ( Remove the striked out tex	Comment Status <b>A</b> tt "per lane (range)".			SuggestedRemedy Change 128A-10 to 128A-11.
SuggestedRemedy See comment.				Response Response Status C ACCEPT.
Response R ACCEPT. [Editor's note: same as #23	esponse Status <b>C</b>			C/         128A         SC         128A.4.2.1         P 175         L 21         # 69           Anslow, Pete         Ciena         Ciena
C/ <b>128A</b> SC <b>128A.3.3.2</b> Calbone, Anthony	P 171 Seagate	L <b>43</b>	# 84	Comment Type E Comment Status A Comment i-52 against P802.3bx D3.0 changed all instances of "enquiries" to "inquiries" in the base standard.
Comment Type <b>E</b> ( There is an extra parenthe	Comment Status <b>A</b> sis around p(k)			SuggestedRemedy Change "enquiries" to "inquiries" here, in 128B.4.2.1, 128D.4.2.1, and 130A.4.2.1
SuggestedRemedy Remove the extra parathes	sis. Change p(k)) to p(k).			Response Response Status C ACCEPT IN PRINCIPLE.
Response R ACCEPT.	esponse Status C			Globally replace "enquiries" with "inquiries".

C/ 128A SC 128A.4.2.1

C/ 128A         SC 128A.4.2.2         P 175         L 36         # 64           Anslow, Pete         Ciena	C/ 128ASC 128A.4.4P 176L 16# 25Hajduczenia, MarekCharter Communicatio
Comment Type E Comment Status A	Comment Type E Comment Status A
"Annex title" should be replaced by the annex title!	We do not use "E" based description for BER very often
SuggestedRemedy         Replace "Annex title" with "2.5Gb/s Storage Enclosure Interface (2.5GSEI)"         Response       Response Status         C         ACCEPT.	SuggestedRemedy Change "BER < 10E-12" to proper format as seen in 128A.1.1 Same for HI4, HI6, DI4, DI6 more of "E" based BER values in Table 128C–1 There are more instances in text and in PICS that need to be replaced.
Cl         128A         SC         128A.4.2.2         P 175         L 42         # 24           Hajduczenia, Marek         Charter Communicatio         Charter Communicatio         24	Response Response Status C ACCEPT.
Comment Type E Comment Status A I do not think 802.3cb will be published in 2016.	C/         128A         SC         128A.4.4         P 176         L 16         # 65           Anslow, Pete         Ciena
SuggestedRemedy	Comment Type <b>T</b> Comment Status <b>A</b>
Please change all references to "802.3cb-2016" to "802.3cb-201x"	The abbreviation "BER" stands for "bit error ratio", not "bit error rate"
Response Response Status C	SuggestedRemedy
ACCEPT.	Change "Bit Error Rate" to "Bit error ratio" in 128A.4.4 and 130A.4.4
C/ 128A SC 128A.4.4 P 176 L 16 # 66 Anslow, Pete Ciena	Response     Response Status     C       ACCEPT.     C
Comment Type <b>T</b> Comment Status <b>A</b>	C/ <b>128A</b> SC <b>128A.4.4.2</b> P <b>177</b> L <b>4</b> # 67
"10E-12" is equivalent to 1E-11 and also not in the format used in 802.3.	Anslow, Pete Ciena
SuggestedRemedy	Comment Type E Comment Status A
Change to "10-12" where "-12" is a superscript.	http://www.ieee802.org/3/WG_tools/editorial/requirements/words.html says that "The
Make the same change in 128A.4.4.2 (2 places), 128A.4.4.4 (2 places), 130A.4.4,	symbol 'bps' is not used, instead 'b/s' is used"
130A.4.4.2 (2 places), 130A.4.4.4 (2 places)	SuggestedRemedy
Response Response Status C	Change "Gbps" to "Gb/s" in 128A.4.4.2 (2 places), 128A.4.4.4 (2 places), 130A.4.4.2 (2
ACCEPT.	places), 130A.4.4.4 (2 places)
	Response Response Status C ACCEPT.

C/ 128A SC 128A.4.4.2 Page 56 of 75 11/9/2016 9:14:49 PM

C/ <b>128B</b> SC <b>128B</b> P <b>179</b> L <b>5</b> # <b>118</b> D'Ambrosia, John         Futurewei, Subsidiary         Fut	C/         128B         SC         128B.4.4.2         P 183         L 44         # 26           Hajduczenia, Marek         Charter Communicatio         Charter Communicatio         P 183         L 44         P 183         P 183
Comment Type ER Comment Status A Annex 128B is primarily a duplication of Annex 69B. Such duplication should be avoided.	Comment Type E Comment Status A We do have a special symbol for ">=" please see the front matter and table of symbols
SuggestedRemedy There are two options 1.delete annex 128B - modify annex 69B to add in specific requirements related to	SuggestedRemedy Please replace all instances of ">=" with appropriate symbol. The same goes for "<=" See IG3 for proper symbols
2.5GBASE-KR 2. Delete redundant text in annex 128b, and replace in each instance with pointer to the original text in Annex 69B	Response Response Status C ACCEPT.
ResponseResponse StatusWACCEPT IN PRINCIPLE.	C/         128C         SC         128C.3         P 185         L 50         # 303           Donahue, Curtis         UNH-IOL
Use solution #1. Delete annex 128B, and place 2.5G information into 69A.	Comment Type E Comment Status A "100 (Ohm)+/- 10%".
C/         128B         SC         128B.2.4         P         181         L         25         # 301           Donahue, Curtis         UNH-IOL         UNH-IOL         Image: content of the second s	SuggestedRemedy Add space so the text reads "100 (Ohm) +/- 10%".
Comment Type <b>TR</b> Comment Status <b>A</b> Since Clause 128 doesn't define equalization is this transmitter control necessary? It's only used to change equalizor values during the receiver interference tolerance test. SuggestedRemedy	Note: Use Ohm symbol. Response Response Status C ACCEPT.
Remove 128B.2.4       Response       Response       C	C/128CSC128C.3P185L50#27Hajduczenia, MarekCharter Communicatio
ACCEPT.	Comment Type E Comment Status A
Cl 128B         SC 128B.3         P 181         L 40         # 302           Donahue, Curtis         UNH-IOL	Missing space in "100 ± 10%." - make sure "±" symbol has always spaces around it SuggestedRemedy Per comment
Comment Type E Comment Status A Looks like this sentence is missing a subclause reference, "in for 2.5GBASE-KX".	Response Response Status C
	ACCEPT.
SuggestedRemedy Change to "in 128.7.2.1 for 2.5GBASE-KX."	

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

ACCEPT.

C/ 128C SC 128C.3 Page 57 of 75 11/9/2016 9:14:49 PM

C/ 128C SC 128C.4.1 Donahue, Curtis	<i>P</i> <b>186</b> UNH-IOL	L <b>24</b>	# 304	C/ <b>128C</b> SC <b>128C.4.3</b> Healey, Adam	P <b>188</b> Broadcom Ltd	L <b>2</b> I.	# 272
Top two rows of Table 128C-1 "f_min" where "_" represents s SuggestedRemedy	subscript text.	x" and "F min". S	Should be "f_max" and	Comment Type TR Con Using Equation (128C-7), it ap allowed to be about 33.6 dB at limit of 13.4 dB at 2.578125 G 2.578125 GHz. This implies th	t 2.578125 GHz. This Hz and an insertion lo	does not agree ss deviation lim	with a fitted attenuatio it of +/-2.8 dB at
Change to "f_max" and "f_min Response Resp	oonse Status <b>C</b>			SuggestedRemedy Revisit the insertion loss equa	tion for 5GBASE-KR		
ACCEPT.					onse Status <b>C</b>		
Capital F becomes lowercase	f and MIN and MAX be	ecome subscripts	S.	ACCEPT IN PRINCIPLE.			
C/ 128C SC 128C.4.1 Anslow, Pete	P <b>186</b> Ciena	L <b>27</b>	# 71	Corrected equation 128C-7 ware replotted.	as incorrect and was c	hanged, and Fig	gure 128C-3 was
Comment Type E Con 802.3 does not use the format	nment Status A 2E-5 etc.			See file http://www.ieee802.org/3/cb/pi	ublic/sep16/patra_3cb	_01_0916_IL.pd	df
SuggestedRemedy				See replot at			
Change "2E-5" to 2 x 10-5" wh Change the numbers in the ne Scrub the draft for other instar	ext three rows in an eq		"-5" is a superscript.	http://www.ieee802.org/3/cb/pr	P 188	L 13	nsertion%20Loss.png # 273
Change the numbers in the ne Scrub the draft for other instar Response Resp	ext three rows in an eq		"-5" is a superscript.	C/ <b>128C</b> SC <b>128C.4.3</b> Healey, Adam	P 188 Broadcom Ltd	L 13	
Change the numbers in the ne Scrub the draft for other instar	ext three rows in an equation of this.		"-5" is a superscript.	C/ <b>128C</b> SC <b>128C.4.3</b> Healey, Adam	P 188 Broadcom Ltd nment Status D range of the limit to be pwever, Figure 128C-3	L 13 I. fmax, and in Ta 3 only plots the I	# 273 able 128C-1, fmax is limit to about 2.25 GH:
Change the numbers in the ne Scrub the draft for other instar Response Resp	ext three rows in an equation of this.		"-5" is a superscript.	Cl 128C SC 128C.4.3 Healey, Adam Comment Type TR Con Equation (128C-7) states the r assigned a value of 7 GHz. Ho and it is unclear how the curve	P 188 Broadcom Ltd nment Status D range of the limit to be owever, Figure 128C-3	L 13 I. fmax, and in Ta 3 only plots the I	# 273 able 128C-1, fmax is limit to about 2.25 GH:
Change the numbers in the ne Scrub the draft for other instar Response Resp	ext three rows in an equation of this.		"-5" is a superscript.	Cl 128C SC 128C.4.3 Healey, Adam Comment Type TR Com Equation (128C-7) states the r assigned a value of 7 GHz. Ho and it is unclear how the curve Figure 128C-2).	P 188 Broadcom Ltd mment Status D range of the limit to be ovever, Figure 128C-3 e applies to 2.5GBASE illustrates the limit over v it applies to 2.5GBASE	<i>L</i> <b>13</b> I. I. B fmax, and in Ta B only plots the I E-KX and 5GBA er the specified	# 273 able 128C-1, fmax is limit to about 2.25 GHz SE-KR (compare to frequency range and
Change the numbers in the ne Scrub the draft for other instar Response Resp	ext three rows in an equation of this.		"-5" is a superscript.	Cl 128C SC 128C.4.3 Healey, Adam Comment Type TR Com Equation (128C-7) states the r assigned a value of 7 GHz. Ho and it is unclear how the curve Figure 128C-2). SuggestedRemedy Replace the plot with one that annotate the plot so show how (including the "high confidence	P 188 Broadcom Ltd mment Status D range of the limit to be ovever, Figure 128C-3 e applies to 2.5GBASE illustrates the limit over v it applies to 2.5GBASE	<i>L</i> <b>13</b> I. I. B fmax, and in Ta B only plots the I E-KX and 5GBA er the specified	# 273 able 128C-1, fmax is limit to about 2.25 GHz SE-KR (compare to frequency range and
Change the numbers in the ne Scrub the draft for other instar Response Resp	ext three rows in an equation of this.		"-5" is a superscript.	Cl 128C SC 128C.4.3 Healey, Adam Comment Type TR Com Equation (128C-7) states the r assigned a value of 7 GHz. Ho and it is unclear how the curve Figure 128C-2). SuggestedRemedy Replace the plot with one that annotate the plot so show how (including the "high confidence	P 188 Broadcom Ltd mment Status D range of the limit to be owever, Figure 128C-3 e applies to 2.5GBASE illustrates the limit over it applies to 2.5GBASE ar regions").	<i>L</i> <b>13</b> I. I. B fmax, and in Ta B only plots the I E-KX and 5GBA er the specified	# 273 able 128C-1, fmax is limit to about 2.25 GHz SE-KR (compare to frequency range and
Change the numbers in the ne Scrub the draft for other instar Response Resp	ext three rows in an equation of this.		"-5" is a superscript.	Cl 128C SC 128C.4.3 Healey, Adam Comment Type TR Com Equation (128C-7) states the r assigned a value of 7 GHz. Ho and it is unclear how the curve Figure 128C-2). SuggestedRemedy Replace the plot with one that annotate the plot so show how (including the "high confidence Proposed Response Resp	P 188 Broadcom Ltd mment Status D range of the limit to be owever, Figure 128C-3 e applies to 2.5GBASE illustrates the limit over it applies to 2.5GBASE regions"). bonse Status W NCIPLE.	<i>L</i> <b>13</b> I. I. B fmax, and in Ta B only plots the I E-KX and 5GBA er the specified	# 273 able 128C-1, fmax is limit to about 2.25 GHz SE-KR (compare to frequency range and
Change the numbers in the ne Scrub the draft for other instar Response Resp	ext three rows in an equation of this.		"-5" is a superscript.	Cl 128C SC 128C.4.3 Healey, Adam Comment Type TR Com Equation (128C-7) states the r assigned a value of 7 GHz. Ho and it is unclear how the curve Figure 128C-2). SuggestedRemedy Replace the plot with one that annotate the plot so show how (including the "high confidence Proposed Response Resp PROPOSED ACCEPT IN PRI	P 188 Broadcom Ltd mment Status D range of the limit to be owever, Figure 128C-3 e applies to 2.5GBASE illustrates the limit over it applies to 2.5GBASE "regions"). oonse Status W NCIPLE. ot for 5GBASE-KR.	<i>L</i> <b>13</b> I. B only plots the I E-KX and 5GBA er the specified SE-KX and 5GB	# 273 able 128C-1, fmax is limit to about 2.25 GH: SE-KR (compare to frequency range and

C/ 128C SC 128C.4.3 Page 58 of 75 11/9/2016 9:14:49 PM

C/ 128C         SC 128C.4.4         P 188         L 41           Smith, Daniel         Seagate	# 129	C/ 128D         SC 128D         P 193         L 6         # 269           Healey, Adam         Broadcom Ltd.         Encode Com
Comment Type ER Comment Status A Missing parenthesis on the term: Af) SuggestedRemedy		Comment Type <b>T</b> Comment Status <b>A</b> The title of this annex is "Test Fixtures for 2.5 Gb/s and 5 Gb/s Backplanes" but it only seems to define the test fixtures for the SEIs. Test fixtures are also defined in 128.7.1.1 and 130.7.1.1 which are presumably also backplane interfaces.
s/b: A(f) Response Response Status C ACCEPT.		SuggestedRemedy Rename the Annex to "Test Fixtures for Storage Enclosure Interfaces" or perhaps consolidate the Clause 128 and Clause 130 test fixture definitions into this annex.
C/         128C         SC 128C.4.4         P 188         L 46           Healey, Adam         Broadcom Ltd.	# 274	Response Response Status C ACCEPT IN PRINCIPLE.
Comment Type TR Comment Status A		Rename the Annex to "Test Fixtures for Storage Enclosure Interfaces".
Equations (128C-9) and (128C-10) are incorrect.		C/ 128D SC 128D P 193 L 8 # 109
SuggestedRemedy		Calbone, Anthony Seagate
Change "0.7^(-9)" to "0.7x10^(-9)" in both cases.		Comment Type E Comment Status A
Response Response Status C		Figure 128D-1 is mentioned twice.
ACCEPT. Exponent notation changed.		SuggestedRemedy Consider revising to "test fixtures illustrated in Figure 128D-1" or something similar.
[Editor's note: is there a missing 'f' at the end of equation 128C-9 ? Answer: yes, add the 'f' at the end of equation 128C-9.		Response Response Status C ACCEPT IN PRINCIPLE.
Check Equation 130C-9.]		Change sentnece to:
C/         128C         SC         128C.4.6.1         P 190         L 34           Donahue, Curtis         UNH-IOL	# 305	Transmitter and receiver measurements are made utilizing the test fixtures specified in Figure 128D–1.
Comment Type E Comment Status A		C/ 128D SC 128D.1.2 P 193 L 50 # 28 Hajduczenia, Marek Charter Communicatio
Missing "(" in "PSNEXT)".		
SuggestedRemedy Change to "(PSNEXT)".		Comment Type E Comment Status A text in lines 50-54 is shown in italics, but it is not part of the equation.
Response Response Status C		SuggestedRemedy
ACCEPT.		Please apply proper text tyle Simialr problem on page 196, lines 50-52; page 202, line 54
		Response Response Status C
		ACCEPT.

C/ 128D SC 128D.1.2 Page 59 of 75 11/9/2016 9:14:49 PM

C/ 128D SC 128D.2 Calbone, Anthony	P <b>194</b> Seagate	L <b>49</b>	# 110	C/         128D         SC         128D.2.3.1         P 196         L 39         # 306           Donahue, Curtis         UNH-IOL
Comment Type E Title is incorrect SuggestedRemedy Change title to "Mated	Comment Status A test fixtures"			Comment Type E Comment Status A Title is identical to 128D.2.3.2 and not correct. Should be "Mated test fixture multiple disturber near-end crosstalk (MDNEXT) loss". Also, MDNEXT has been defined and used in other Clauses as "Multiple Disturber Near End Crosstalk" but here its spelt out as "single disturber near-end crosstalk".
Response ACCEPT.	Response Status C			SuggestedRemedy 1) Change the subclause title to "Mated test fixture multiple disturber near-end crosstalk (MDNEXT) loss".
C/ <b>128D</b> SC <b>128D.2.3</b> Hajduczenia, Marek	P <b>196</b> Charter Comr	L <b>31</b> municatio	# 29	<ol> <li>Change "Single Disturber Near-End Crosstalk" to "Multiple Disturber Near-End Crosstalk".</li> </ol>
Comment Type E Tables are usually cen SuggestedRemedy Please center Table 12				Response Response Status C ACCEPT IN PRINCIPLE. (From calbone_3cb_01_0916.pdf):
Response ACCEPT.	Response Status C			- change annex 128D according to document Calbone_3cb_04_0916.pdf)  Delete subclause: 128D.2.3.1 Mated test fixtures integrated crosstalk noise
				In clause 128D, change all reference to MDNEXT to NEXT. Change the subclause title to "Mated test fixture near-end crosstalk (NEXT) loss"

Take definition of NL from equation 128D-5, and add this same definition to equation 128D-8, directly below thre equation.

C/ 128D SC 128D.2.3.1

/ 128D SC 128D.2.3.2 P 197 L 19 # 307	C/ 129 SC 129.1.3 P120 L16 # 3	808
onahue, Curtis UNH-IOL	Donahue, Curtis UNH-IOL	
omment Type         TR         Comment Status         A           This subclause is either missing parameters (mostly far-end) or has some additional         Image: Comment Status         Image: Co	Comment Type E Comment Status A "5GBASE-X PCS". Should be "5GBASE-R PCS".	
unnecessary parameters defined. For example Equations 128D-6 and 218D-7 are nearly identical, the difference is the use of Ant vs Aft but both equations are labelled as Wnt. Since Aft is not defined my guess is that there shouldn't be any far-end parameters in this section.	SuggestedRemedy Change to "5GBASE-R PCS"	
IggestedRemedy	Response Response Status C	
Either	ACCEPT.	
	[Editor's note: duplicate of #187]	
a) Remove Equation 128D-7 and any references to that equation.	C/ 129 SC 129.1.4 P121 L 17 # 3	00
or	Donahue, Curtis UNH-IOL	
b) Add in far-end parameters to these definitions and rename Wnt in Eq. 128D-7 to Wft.	Comment Type E Comment Status A	
sponse Response Status C	There seems to be an inconsistantcy between "5GBASE-R PMD" and "5GBASE	
	previously in the draft I only saw "5GBASE-KR PMD". Should be consistant thro	oughout t
ACCEPT IN PRINCIPLE.		-
	draft.	-
Adopt suggestion a). (From calbone_3cb_01_0916.pdf):		ASE-R
Adopt suggestion a).         (From calbone_3cb_01_0916.pdf):         - change annex 128D according to document Calbone_3cb_04_0916.pdf)	draft. SuggestedRemedy Change all instances of "5GBASE-R PMD" to "5GBASE-KR PMD". I see "5GBA	ASE-R
Adopt suggestion a).         (From calbone_3cb_01_0916.pdf):         - change annex 128D according to document Calbone_3cb_04_0916.pdf)	draft. SuggestedRemedy Change all instances of "5GBASE-R PMD" to "5GBASE-KR PMD". I see "5GBA PMD" in the following places. Page 121, Line 17 Page 125, Line 5	ASE-R
Adopt suggestion a).         (From calbone_3cb_01_0916.pdf):         - change annex 128D according to document Calbone_3cb_04_0916.pdf)	draft. SuggestedRemedy Change all instances of "5GBASE-R PMD" to "5GBASE-KR PMD". I see "5GBA PMD" in the following places. Page 121, Line 17 Page 125, Line 5 Page 134, Line 24	ASE-R
Adopt suggestion a).         (From calbone_3cb_01_0916.pdf):         - change annex 128D according to document Calbone_3cb_04_0916.pdf)	draft. SuggestedRemedy Change all instances of "5GBASE-R PMD" to "5GBASE-KR PMD". I see "5GBA PMD" in the following places. Page 121, Line 17 Page 125, Line 5 Page 134, Line 24 Response Response Status C	
Adopt suggestion a). (From calbone_3cb_01_0916.pdf): - change annex 128D according to document Calbone_3cb_04_0916.pdf) 	draft. SuggestedRemedy Change all instances of "5GBASE-R PMD" to "5GBASE-KR PMD". I see "5GBA PMD" in the following places. Page 121, Line 17 Page 125, Line 5 Page 134, Line 24 Response Response Status C ACCEPT.	
Adopt suggestion a).         (From calbone_3cb_01_0916.pdf):         - change annex 128D according to document Calbone_3cb_04_0916.pdf)	draft. SuggestedRemedy Change all instances of "5GBASE-R PMD" to "5GBASE-KR PMD". I see "5GBA PMD" in the following places. Page 121, Line 17 Page 125, Line 5 Page 134, Line 24 Response Response Status C ACCEPT. C/ 129 SC 129.3.2.2 P125 L 39 # 3 Donahue, Curtis UNH-IOL	
Adopt suggestion a).         (From calbone_3cb_01_0916.pdf):         - change annex 128D according to document Calbone_3cb_04_0916.pdf)	draft. SuggestedRemedy Change all instances of "5GBASE-R PMD" to "5GBASE-KR PMD". I see "5GBA PMD" in the following places. Page 121, Line 17 Page 125, Line 5 Page 134, Line 24 Response Response Status C ACCEPT. C/ 129 SC 129.3.2.2 P125 L 39 # 3	10 umbers le
Adopt suggestion a). (From calbone_3cb_01_0916.pdf): - change annex 128D according to document Calbone_3cb_04_0916.pdf) 	draft. SuggestedRemedy Change all instances of "5GBASE-R PMD" to "5GBASE-KR PMD". I see "5GBA PMD" in the following places. Page 121, Line 17 Page 125, Line 5 Page 134, Line 24 Response Response Status C ACCEPT. C/ 129 SC 129.3.2.2 P125 L 39 # 3 Donahue, Curtis UNH-IOL Comment Type E Comment Status A This paragraph has 3 instances of "sixteen". The IEEE style manual stats the nut than 10 should be spelt out. To be consistant with other text in this draft and the change "sixteen" to "16". SuggestedRemedy	110 umbers le
Adopt suggestion a). (From calbone_3cb_01_0916.pdf): - change annex 128D according to document Calbone_3cb_04_0916.pdf) 	draft. SuggestedRemedy Change all instances of "5GBASE-R PMD" to "5GBASE-KR PMD". I see "5GBA PMD" in the following places. Page 121, Line 17 Page 125, Line 5 Page 134, Line 24 Response Response Status C ACCEPT. C/ 129 SC 129.3.2.2 P125 L 39 # 3 Donahue, Curtis UNH-IOL Comment Type E Comment Status A This paragraph has 3 instances of "sixteen". The IEEE style manual stats the nu than 10 should be spelt out. To be consistant with other text in this draft and the change "sixteen" to "16".	10 umbers le
Adopt suggestion a). (From calbone_3cb_01_0916.pdf): - change annex 128D according to document Calbone_3cb_04_0916.pdf) 	draft. SuggestedRemedy Change all instances of "5GBASE-R PMD" to "5GBASE-KR PMD". I see "5GBA PMD" in the following places. Page 121, Line 17 Page 125, Line 5 Page 134, Line 24 Response Response Status C ACCEPT. C/ 129 SC 129.3.2.2 P125 L 39 # 3 Donahue, Curtis UNH-IOL Comment Type E Comment Status A This paragraph has 3 instances of "sixteen". The IEEE style manual stats the nut than 10 should be spelt out. To be consistant with other text in this draft and the change "sixteen" to "16". SuggestedRemedy	110 umbers I

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/ 129 SC 129.3.2.2 Page 61 of 75 11/9/2016 9:14:49 PM

IEEE P802.3cb 2.5 Gb/s and 5 Gb/s Back	plane Initial Working Group ballot comments

C/ 129         SC 129.5         P 126         L 10         # 311           Donahue, Curtis         UNH-IOL	C/         129         SC         129.7.6.6         P 131         L 25         # 355           Law, David         HPE
Comment Type E Comment Status A "BT" is used in this paragraph to abbreviate "bit-times". But this is the on;y instance of "BT" I found in the draft. Should be consistant throughout draft.	Comment Type E Comment Status A Suggest we don't use dashes in PICS item designation. SuggestedRemedy
SuggestedRemedy Change "BT" to "bit-times"	Suggest that the item designations LP-0X be changed to read 'LPX'.
Response Response Status C ACCEPT.	Response Response Status C ACCEPT.
C/ 129         SC 129.7.3         P 128         L 14         # 312           Donahue, Curtis         UNH-IOL	C/ 130         SC 130.1         P 133         L 9         # 251           Healey, Adam         Broadcom Ltd.         <
Comment Type E Comment Status A "PCS" is used in the Value column of rows 3 and 4. Two major capabilities should not use the same name. SuggestedRemedy Change the "PCS" in row 4 to "BER".	Comment Type       E       Comment Status       A         Clause 45 is not an external cross-reference since it is amended in this draft.         SuggestedRemedy         Make this a live cross-reference to Clause 45 and change the font color to black.         Response       Response Status       C         ACCEPT.
Response Response Status C ACCEPT.	C/ 130 SC 130.6.4 P138 L 3 # 314
C/         129         SC         129.7.6.3         P 130         L 40         # 313           Donahue, Curtis         UNH-IOL         UNH-IOL         Image: state	Donahue, CurtisUNH-IOLComment TypeEComment StatusA
Comment Type E Comment Status A The PICS table in 129.7.6.2 and 29.7.6.3 are identical. SuggestedRemedy	"Global PMD signal detect function" should be "Global_PMD_signal_detect function" SuggestedRemedy Change to "Global_PMD_signal_detect function".
Populate the PICS table in 129.7.6.3 with the appropriate text. Response Response Status C ACCEPT IN PRINCIPLE.	Response Response Status C ACCEPT.
Change 129.7.6.2 Loopback tabel to read: Item: LB1 Feature: PMA Loopback Subclause: 129.3.3 Value/Comment: conform to the requirements of Clause 51.8 Status: O Support: Yes[] No[]	

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/ 130 SC 130.6.4 Page 62 of 75 11/9/2016 9:14:49 PM

C/         130         SC         130.6.4         P         138         L         5         #         188           Hidaka, Yasuo         Fujitsu Lab of America         Fujitsu L	C/ 130         SC 130.7.1.4         P 141         L 46         # 142           Smith, Daniel         Seagate
Comment Type <b>T</b> Comment Status <b>A</b> It is too rough to say that the definition of the PMD signal detect function is beyond the scope of this specification.	Comment Type TR Comment Status A change to be a "maximum"
SuggestedRemedy         Give a brief definition of the PMD signal detect function regarding to the functionality. It may be OK to say the detail implementation is beyond the scope of this specification.         Response       Response Status         C         ACCEPT IN PRINCIPLE.         Reword first four sentences of 130.6.4 to reflect signal detect function being out of the scope of this standard while allowing for such function to be implemented and stay compliant, for both EEE and non-EEE im[lementations.	SuggestedRemedy should read: shall be less than or equal to 1200 mV, Response Response Status C ACCEPT IN PRINCIPLE. Double documentation. Use table value instead. Text should read: For a 1010 pattern, the peak-to-peak Differential peak-to-peak output voltage is definer Table 130–4, regardless of equalization setting.
C/         130         SC         130.7.1.2         P 141         L 23         # [189]           Hidaka, Yasuo         Fujitsu Lab of America	C/ 130         SC 130.7.1.4         P 141         L 47         # 143           Smith, Daniel         Seagate
	<b>.</b>
Comment Type <b>T</b> Comment Status <b>A</b> This clause specifies not only impedance of test fixture, but also return loss of test fixture	Comment Type TR Comment Status A change to be a "maximum"
	change to be a "maximum" SuggestedRemedy should read: shall be less than or equal to 30 mV peak-to-peak Response Response Status C
This clause specifies not only impedance of test fixture, but also return loss of test fixture         SuggestedRemedy         Change the title of clause from "Test fixture impedance" to "Test fixture characteristics".         Response       Response Status	<ul> <li>change to be a "maximum"</li> <li>SuggestedRemedy</li> <li>should read:</li> <li>shall be less than or equal to 30 mV peak-to-peak</li> </ul>
This clause specifies not only impedance of test fixture, but also return loss of test fixture SuggestedRemedy Change the title of clause from "Test fixture impedance" to "Test fixture characteristics". Response Response Status C ACCEPT. C/ 130 SC 130.7.1.2 P 141 L 34 # 190 Hidaka, Yasuo Fujitsu Lab of America Comment Type T Comment Status A	<ul> <li>change to be a "maximum"</li> <li>SuggestedRemedy should read: shall be less than or equal to 30 mV peak-to-peak</li> <li>Response Response Status C</li> <li>ACCEPT IN PRINCIPLE.</li> </ul>
This clause specifies not only impedance of test fixture, but also return loss of test fixture SuggestedRemedy Change the title of clause from "Test fixture impedance" to "Test fixture characteristics". Response Response Status C ACCEPT. C/ 130 SC 130.7.1.2 P 141 L 34 # 190 Hidaka, Yasuo Fujitsu Lab of America	<ul> <li>change to be a "maximum"</li> <li>SuggestedRemedy should read: shall be less than or equal to 30 mV peak-to-peak</li> <li>Response Response Status C ACCEPT IN PRINCIPLE.</li> <li>Double documentation. Use table value instead. Text should read:</li> </ul>
This clause specifies not only impedance of test fixture, but also return loss of test fixture SuggestedRemedy Change the title of clause from "Test fixture impedance" to "Test fixture characteristics". Response Response Status C ACCEPT. C/ 130 SC 130.7.1.2 P 141 L 34 # 190 Hidaka, Yasuo Fujitsu Lab of America Comment Type T Comment Status A Equation 130-1 and 130-2 are not continuous at 2579 MHz. SuggestedRemedy	<ul> <li>change to be a "maximum"</li> <li>SuggestedRemedy should read: shall be less than or equal to 30 mV peak-to-peak</li> <li>Response Response Status C ACCEPT IN PRINCIPLE.</li> <li>Double documentation. Use table value instead. Text should read:</li> <li>Differential peak-to-peak output voltage with TX disabled is defined in Table 130–4.</li> <li>C/ 130 SC 130.7.1.4 P142 L5 # 315</li> <li>Donahue, Curtis UNH-IOL</li> </ul>
This clause specifies not only impedance of test fixture, but also return loss of test fixture SuggestedRemedy Change the title of clause from "Test fixture impedance" to "Test fixture characteristics". Response Response Status C ACCEPT. C/ 130 SC 130.7.1.2 P 141 L 34 # 190 Hidaka, Yasuo Fujitsu Lab of America Comment Type T Comment Status A Equation 130-1 and 130-2 are not continuous at 2579 MHz. SuggestedRemedy Change the right hand side of Equation 130-2 as follows:	<ul> <li>change to be a "maximum"</li> <li>SuggestedRemedy should read: shall be less than or equal to 30 mV peak-to-peak</li> <li>Response Response Status C ACCEPT IN PRINCIPLE.</li> <li>Double documentation. Use table value instead. Text should read:</li> <li>Differential peak-to-peak output voltage with TX disabled is defined in Table 130–4.</li> <li>C/ 130 SC 130.7.1.4 P142 L5 # 315</li> <li>Donahue, Curtis UNH-IOL</li> <li>Comment Type E Comment Status A</li> </ul>

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 C/ 1

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 SC 1

 SORT ORDER: Clause, Subclause, page, line
 SC 1
 SC 1

C/ 130 SC 130.7.1.4 Page 63 of 75 11/9/2016 9:14:49 PM

C/ 130 SC 130.7.1.4 Smith, Daniel	P 142 Seagate	L 17	# 144	C/         130         SC         130.7.1.8         P 144         L 35         # 191           Hidaka, Yasuo         Fujitsu Lab of America
Comment Type <b>TR</b> change to be a "maxim	Comment Status A			Comment Type TR Comment Status D Methodology of jitter measurement in Annex 48B.3 is old and not good.
SuggestedRemedy should read: shall be less than or ec Response ACCEPT IN PRINCIPL	Response Status C			SuggestedRemedy Use the methodology of jitter measurement described in 92.8.3.8 which uses PRBS9. Proposed Response Response Status <b>Z</b> REJECT.
Double documentation	. Use table value instead. Te	xt should read:		This comment was WITHDRAWN by the commenter.
	e transmitter's Differential pea Fable 130–4, within 500 ns of de is set to QUIET.			C/         130         SC         130.7.1.10         P         145         L         1         # 317           Donahue, Curtis         UNH-IOL         UNH-IOL         Image: Curtis         Image: Curtis
C/ 130 SC 130.7.1.7	P 144	L 30	# 209	Comment Type TR Comment Status A
usted, Kent	Intel	200	" <u>200</u>	130.7.1.10 Transmitter output waveform defines symbol periods and voltages for a squa test pattern that is used for the "transmitter output waveform test". However, there aren't any electrical requirements involving these times and voltages.
	Comment Status A ransition times requirement re the negative waveform level.	eferences v1 and	v4. v4 is the pre-	SuggestedRemedy Add electrical requirements involving the test pattern voltages, similar to those found in 72.7.1.11.
SuggestedRemedy				Response Response Status W
change "v4" to "v3" Response	Response Status W			ACCEPT IN PRINCIPLE.
ACCEPT.				In Table 130-4 add a new row above Common-mode voltage limits that says: Pre-cursor ratio (Rpre) [column 1]
C/ <b>130</b> SC <b>130.7.1.7</b> Donahue, Curtis	7 P 144 UNH-IOL	L <b>31</b>	# 316	130.7.1.11 [column 2] with a value of 1.25 +/- 0.05 [column 3] [nothing in column 4]
equalization and a run	Comment Status <b>A</b> of equalization in this paragr of at least eight consecutive uring this testing." Should be of	ones." then says	"equalization may be	See file http://www.ieee802.org/3/cb/public/sep16/patra_3cb_01_0916_Tx_waveform.pdf
SuggestedRemedy Remove the last sente	nce of this paragraph. This w ately measure the transition	ill make it clear t	hat equalization needs	Also change text on page 145, line 25 to: The transmitter output waveform test is based on the voltages v1 through v4, which shall be measured as shown in Figure 130–7 and described below. TI Rpre requirements are shown in Table 130-4.
Response ACCEPT.	Response Status C			

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

C/ 130 SC 130.7.1.10 Page 64 of 75 11/9/2016 9:14:49 PM

Ewen, John	1 P 145	L 23	# 241	C/ 130 SC 130.7.1.11	P 145	L <b>52</b>	# 208
well, John	GlobalFoundrie	es		Lusted, Kent	Intel		
no values are specified	Comment Status <b>A</b> appears incomplete. Voltages for the PMD in Clause 130. F which seems inconsistent.			Comment Type <b>TR</b> Co For v1 and v3, the average v of the waveform. this artificia the waveform at the midpoin	ally reduces the measu		
0	nal intent of this subclause. P where the value for Rpre is de		e subclause should be	SuggestedRemedy consider defining a window ii	n the flat portion of the	waveform, away	from the rise and
esponse	Response Status C			falling edges, as the steady s	state voltage. see figur	e 72-12 for inspir	ation.
ACCEPT IN PRINCIPL	E.			Response Res ACCEPT IN PRINCIPLE.	sponse Status W		
Same as #317.	1 <i>P</i> 145	L <b>25</b>	# 252	See comments #192 and #1	93		
lealey, Adam	Broadcom Ltd.	L 23	# <u>232</u>	[Editor's note: this figure is a Framemaker.]	n imported graphic that	t must be correct	ed outside of
	Comment Status A asurement of v1, v2, v3, and v lues of v1, v2, v3, and v4 (and			 C/ 130 SC 130.7.1.11 Hidaka, Yasuo	P <b>145</b> Fujitsu Lab of	L <b>53</b> f America	# 192
uggestedRemedy				Comment Type TR Co	omment Status A		
Include the requiremen	ts or, if there are no requireme Response Status <b>C</b>	ents, remove the	e subclause.	v1 is defined as the average rising edge.	voltage in the interval t	1 to t1-2T, but t1	is in the middle of th
Pesnonse				SuggestedRemedy			
Response ACCEPT IN PRINCIPL	•				tago in the interval t1+"	2T to t2 T	
•	•			Define v1 as the average vol	0	2T to t2-T.	
	E.			Define v1 as the average vol	tage in the interval t1+2 sponse Status <b>C</b>	2T to t2-T.	
ACCEPT IN PRINCIPL See comment #317.	E. es, 0 No, 0 Abstain.	L 29	# 206	Define v1 as the average vol Response Res	sponse Status C		
ACCEPT IN PRINCIPL See comment #317. This was approved 6 Ye Cl 130 SC 130.7.1.1 Lusted, Kent Comment Type ER	E. es, 0 No, 0 Abstain. 1 <i>P</i> 145	-		Define v1 as the average vol Response Res ACCEPT IN PRINCIPLE.	sponse Status C		
ACCEPT IN PRINCIPL See comment #317. This was approved 6 Ye Cl 130 SC 130.7.1.1 Lusted, Kent Comment Type ER	E. es, 0 No, 0 Abstain. 1 P 145 Intel Comment Status A	-		Define v1 as the average vol Response Res ACCEPT IN PRINCIPLE.	sponse Status C		

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

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IEEE P802.3cb 2.5 Gb/s and 5 Gb/s Backplane Initial Workin	g Group ballot comments
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C/         130         SC         130.7.1.11         P         146         L         2         #         193           Hidaka, Yasuo         Fujitsu Lab of America         Fujits	CI 130         SC 130.8         P 148         L 10         # 271           Healey, Adam         Broadcom Ltd.
Comment Type <b>TR</b> Comment Status <b>A</b> v3 is defined as the average voltage in the interval t2 to t3-T, but t2 is in the middle of falling edge.	Comment Type <b>TR</b> Comment Status <b>A</b> The interconnect characterstics are not defined in Annex 130B.
SuggestedRemedy Define v3 as the average voltage in the interval t2+2T to t3-T. Response Response Status C ACCEPT IN PRINCIPLE.	SuggestedRemedy Change the reference to Annex 128C. Response Response Status C ACCEPT.
Define v3 as the average voltage in the interval t2+2T to t3-2T.	C/ 130         SC 130.10.4.2         P 150         L 53         # 7           Laubach, Mark         Broadcom Limited
C/ 130         SC 130.7.1.11         P 146         L 8         # 207           Lusted, Kent         Intel	Comment Type E Comment Status A The bottom horizontal line of the table is missing. It needs to be there.
Comment Type TR Comment Status A value for Rpre is not defined in specification. the min and max value of Rpre is not defined in the specification. SuggestedRemedy Set a value for Rpre.	SuggestedRemedy As per comment. Response Response Status C ACCEPT.
Define the min and max value of Rpre Add relevant PICS entry.	C/         130         SC         130.10.4.4         P 152         L 11         # 145           Smith, Daniel         Seagate
Add Televant FICS entry.  Response Response Status W  ACCEPT IN PRINCIPLE.  See comment #317 for first part second part:	Comment Type <b>TR</b> Comment Status <b>A</b> change to be a "maximum" SuggestedRemedy Value/Comment column should read:
add new entry FS19 in 130.10.4.2 PMD functional specifications to cover the transmitter waveform. Add row FS19 with the following column content:	Less than or equal to 1200 mV for a 1010 pattern Response Response Status C ACCEPT IN PRINCIPLE.
Feature: Pre-cursor ratio Subclause: 130.7.1.11 Value/Comment: as specified in Table 130-4 Status: M Support: Yes [ ]	The voltage is a 'maximum'. Change text in Value column to read: 1200 mV for a 1010 pattern

C/ 130 SC 130.10.4.4 Page 66 of 75 11/9/2016 9:14:49 PM

Cl         130         SC         130.10.4.4         P 152           Smith, Daniel         Seagate	L <b>14</b>	# 146	C/         130A         SC         130A         P 201         L 6         #         70           Anslow, Pete         Ciena
Comment Type <b>TR</b> Comment Status <b>A</b> change to be a "maximum"			Comment Type E Comment Status A "5Gb/s" should be "5 Gb/s" (there is always a space between a number and its unit.)
SuggestedRemedy Value/Comment column should read: Less than or equal to 30 mV			SuggestedRemedy Change "5Gb/s" to "5 Gb/s" here and on page 218 lines 2 and 36
Response Response Status C ACCEPT.			Response Response Status C ACCEPT.
Maximum transmitter differential peak-to-peak voltage when TX disabled should read in the Value column:			Cl 130A       SC 130A.1       P 201       L 13       # 261         Healey, Adam       Broadcom Ltd.       Broadcom Ltd.       Encode the second seco
30 mV Cl 130 SC 130.10.4.4 P 152 Smith, Daniel Seagate Comment Type TR Comment Status D change to be a "maximum" SuggestedRemedy	L <b>24</b>	# [147	receivers that satisfy the Clause 130 requirements are suitable for this application. If this is the case, then it seems TP0D-H and TP0H-D should be equivalent to TP1 in Clause 128, and TP5D-H and TP5H-D should be equivalent to to TP4 in Clause 130. If so, then it seems that channel between TP0D-H and TP5H-D (or TP0H-D and TP5D-H) is simply a specific partitioning of the generic channel described in Annex 128C. If all of this is correct, then it seems that the text and/or test point definitions should be modified to make this clear. If it is not correct, then the relationship between this interface and clause it is associated with is unclear. Is this Annex defining a completely different PMD?
Value/Comment column should read: Less than or equal to 30 mV within 500 ns of tx_quiet			SuggestedRemedy Clarify the relationship between a 5GBASE-KR PMD and the 5GSEI.
Proposed Response Response Status Z REJECT.			Response Response Status C ACCEPT IN PRINCIPLE.
This comment was WITHDRAWN by the commenter.			Same resolution as comment #255 but for Annex 130A.
C/ 130A         SC         P 201           Donahue, Curtis         UNH-IOL	L <b>6</b>	# 318	C/ 130A         SC 130A.1         P 202         L 3         # 87           Calbone, Anthony         Seagate
Comment Type E Comment Status A Annex title is "5Gb/s Storage Enclosure Interface".			Comment Type E Comment Status A The Figure 130A-2 reference is incorrect.
"5Gb/s" in 130A.4 title too.			SuggestedRemedy Change 130A-2 to 130A-3.
SuggestedRemedy Change "5Gb/s" to 5 Gb/s" in both titles.			Response Response Status C ACCEPT.

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SC 130A.1 SORT ORDER: Clause, Subclause, page, line

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C/         130A         SC         130A.1         P         202         L         7         #         262           Healey, Adam         Broadcom Ltd.         Bro	C/         130A         SC         130A.1.1         P 203         L 29         # [149]           Smith, Daniel         Seagate
Comment Type <b>TR</b> Comment Status <b>A</b> In Figure 130A-1, the test point adjacent to the PMD transmit function is TP0 but here it appears to be TP1. Which is correct?	Comment Type TR Comment Status D change to be a "maximum"
SuggestedRemedy Include the TX PCB before TP0 or change the test point to TP1.	SuggestedRemedy Value/Comment column should read: The bit error ratio (BER) shall be less than or equal to 10-12 with any errors
Response Response Status C ACCEPT IN PRINCIPLE.	Proposed Response Response Status Z REJECT.
Fix figure 130A-1 to show the 2nd reference to TP1 as TP0 and elongate the path to make it look differrent.	This comment was WITHDRAWN by the commenter.
See file calbone_3cb_01_0916.pdf. [Editor's note: file located at http://www.ieee802.org/3/cb/public/sep16/index.html]	C/         130A         SC         130A.2         P 204         L 10         # 10           Laubach, Mark         Broadcom Limited         Image: Comparison of the second seco
C/         130A         SC         130A.1         P 202         L 14         # [263]           Healey, Adam         Broadcom Ltd.         Broadcom Ltd.	Comment Type E Comment Status A Line 10 and 25. Text is running into lines. Maintain slightly larger visual separation to avoid collision.
Comment TypeTRComment StatusAWhy is the loss from TP1D-H to the connector 1.2 dB in one part of the figure and 2 dB in another part of the figure. What has changed? Similarly for the TP1 to TP5 insertion loss.	Almost same for Figure 130A–5 on Page 205. SuggestedRemedy
SuggestedRemedy         Clarify the difference between the diagrams in Figure 130A-2.         Response       Response Status         C	As per comment. <i>Response</i> ACCEPT. <i>Response Status</i> <i>C</i> <i>C</i>
ACCEPT IN PRINCIPLE.	C/         130A         SC         130A.2         P 205         L 20         # 265           Healey, Adam         Broadcom Ltd.
Fix figure 130A-2 to show the 2nd reference to TP1 as TP0 and elongate the path to make it look differrent.	Comment Type <b>TR</b> Comment Status <b>A</b> In the second part of the figure, it seems the test point at the PMD receiver function should
Refer to: calbone_3cb_01_0916.pdf posted on Public page for Sept Interim.	be TP5H-D. the test point at the connection interface should be TP4H-D, the "Tx PCB" should be "Rx PCB", and the AC coupling capacitors shown between the TP4 and TP5.
[Editor's note: file located at http://www.ieee802.org/3/cb/public/sep16/index.html]	SuggestedRemedy Modify the figure per the comment.
	Response Response Status C ACCEPT.
	See file http://www.ieee802.org/3/cb/public/sep16/calbone_3cb_01_0916.pdf

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C/ 130A
SC 130A.2
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C/ 130ASC 130A.3.1P 206L 1# 30Hajduczenia, MarekCharter Communicatio	C/ 130A SC 130A.3.1 P 206 L 9 # 319
	Donahue, Curtis UNH-IOL
Comment Type E Comment Status A Subclause reference column is empty	Comment Type E Comment Status A Remove the striked out text "per lane (range)".
SuggestedRemedy Please insert references in Subclause reference column	SuggestedRemedy See comment.
Response Response Status C ACCEPT.	Response Response Status C ACCEPT IN PRINCIPLE. [Editor's note: duplicate of #23.]
See file http://www.ieee802.org/3/cb/public/nov16/smith_3cb_02_1116_comment_30.pdf	C/ <b>130A</b> SC <b>130A.3.1</b> P <b>206</b> L <b>9</b> # 266 Healey, Adam Broadcom Ltd.
C/     130A     SC     130A.3.1     P 206     L 7     # 89       Calbone, Anthony     Seagate       Comment Type     E     Comment Status     A	Comment Type ER Comment Status A The "Subclause reference" column of Table 130A-1 is blank. In the parameter column, the phrase "per lane (range)" in the signaling rate row is struck out for no apparent reason.
The Units column is not wide enough for the title Units, so the "s" is on a second line. SuggestedRemedy Widen Units column so the whole word fits into one line.	SuggestedRemedy Fill in the missing column and correct the formatting error.
Response Response Status C ACCEPT.	Response Response Status C ACCEPT IN PRINCIPLE.
C/ 130A         SC 130A.3.1         P 206         L 9         # 234           Ewen, John         GlobalFoundries	<ul> <li>Same as comment #63.</li> <li>Fill in blank columns with information from: http://www.ieee802.org/3/cb/public/nov16/smith_3cb_02_1116_comment_30.pdf</li> </ul>
Comment Type E Comment Status A Table 130A-1 is missing subclause references	C/         130A         SC         130A.3.1         P 206         L 9         # 90           Calbone, Anthony         Seagate
SuggestedRemedy Insert appropriate references	Comment Type E Comment Status A There is no subclause reference
Response Response Status C ACCEPT IN PRINCIPLE.	SuggestedRemedy Add 130A.3.1.1 to signaling rate Subclause reference
See file http://www.ieee802.org/3/cb/public/nov16/smith_3cb_02_1116_comment_30.pdf	Response Response Status C ACCEPT.

C/ 130A SC 130A.3.1

Cl 130ASC 130A.3.1P 206Calbone, AnthonySeagate	L <b>9</b>	# 88	C/ 130ASC 130A.3.1P 206L 1Calbone, AnthonySeagate	5 # 94		
Comment Type E Comment Status A Text is crossed out in the signaling rate parameter			Comment Type E Comment Status A There is no subclause reference			
SuggestedRemedy Remove the "per lane (range)" text that is crossed o	ut.		SuggestedRemedy Add 130A.3.1.2 to pk-pk transmitter enabled Subclause refe	rence		
Response Response Status C ACCEPT. [Editor's note: duplicate of #23.]			Response Response Status C ACCEPT.			
C/ 130A     SC 130A.3.1     P 206       Calbone, Anthony     Seagate	L 10	# 91	C/ 130ASC 130A.3.1P 206L 1Calbone, AnthonySeagate	7 # 95		
Comment Type E Comment Status A There is no subclause reference			Comment Type E Comment Status A There is no subclause reference			
SuggestedRemedy Add 130A.3.1.2 to DC CMV Subclause reference			SuggestedRemedy Add 130A.3.1.3 to return loss Subclause reference			
Response Response Status C ACCEPT.			Response Response Status C ACCEPT.			
C/ 130A SC 130A.3.1 P 206 Calbone, Anthony Seagate	L 12	# 92	C/ 130ASC 130A.3.1P 206L 2Calbone, AnthonySeagate	0 # 96		
Comment Type E Comment Status A There is no subclause reference			Comment Type E Comment Status A There is no subclause reference			
SuggestedRemedy Add 130A.3.1.2 to AC CMV Subclause reference			SuggestedRemedy Add 130A.3.1.4.2 to vf(max) Subclause reference			
Response Response Status C ACCEPT.			Response Response Status C ACCEPT.			
C/ 130A SC 130A.3.1 P 206 Calbone, Anthony Seagate	L 14	# 93	Cl 130ASC 130A.3.1P 206L 2Calbone, AnthonySeagate	<b>0</b> # <u>101</u>		
Comment Type E Comment Status A There is no subclause reference			Comment Type E Comment Status A The mV units are slightly off of the Values			
SuggestedRemedy Add 130A.3.1.2 to pk-pk transmitter disabled Subcla	ause reference		SuggestedRemedy Move the mV's down a bit			
Response Response Status C ACCEPT.			Response Response Status C ACCEPT.			

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

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

 SORT ORDER: Clause, Subclause, page, line
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C/ 130A SC 130A.3.1 P 20	06 L 21	" 07	C/ 130A SC 130A.3.1.1	D 000 / 07	" 04
Cl 130ASC 130A.3.1P 20Calbone, AnthonySeaga		# 97		P 206 L 37 Charter Communicatio	# 31
Comment Type E Comment Status There is no subclause reference	Α		Comment Type E Comment S Odd dash over "93" in 192.93 ps state		
uggestedRemedy Add 130A.3.1.4.2 to vf(min) Subclause refer	rence		SuggestedRemedy Make sure dash is removed		
esponse Response Status ACCEPT.	С		Response Response St ACCEPT.	atus C	
C/ 130ASC 130A.3.1P 20calbone, AnthonySeaga		# 98	C/ <b>130A</b> SC <b>130A.3.1.1</b> Smith, Daniel	P 206 L 37 Seagate	# 130
Comment Type E Comment Status There is no subclause reference	Α		Comment Type ER Comment S Overbar on the decimal 193.93	tatus A	
SuggestedRemedy Add 130A.3.1.4.2 linear fit pulse peak (min)	Subclause reference		SuggestedRemedy remove the overbar		
Response Response Status ACCEPT.	С		Response Response St ACCEPT.	atus C	
C/ 130ASC 130A.3.1P 20calbone, AnthonySeaga		# 99	C/ <b>130A</b> SC <b>130A.3.1.4.1</b> Healey, Adam	P 208 L 48 Broadcom Ltd.	# 267
omment Type E Comment Status There is no subclause reference uggestedRemedy	A		Comment Type <b>TR</b> Comment S PRBS13Q is a PAM4 test pattern and Furthermore, 94.3.12.5.2 pertains to th issue with 130A.3.3.1.	seems to be inappropriate for	
Add 130A.3.1.6 to all Jitter Subclause refere	ences		SuggestedRemedy		
Response Response Status ACCEPT.	С		Change the reference to 92.8.3.5 or a that 92.8.3.5 specified the use of PRB be required in this case.		
7 130ASC 130A.3.1P 20ralbone, AnthonySeaga		# 100	Response Response St ACCEPT IN PRINCIPLE.	atus C	
<i>Comment Type</i> <b>E</b> <i>Comment Status</i> There is no subclause reference	Α		Replace the paragraph with the text be		
uggestedRemedy Add 130A.3.1.7 to txsndr Subclause referen	се		The linear fit pulse response is charac with the exception that the measureme =8.		
Response Response Status					

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

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C/ 130A SC 130A.3.1.4.1 P 208 L 48 # 197	C/ 130A SC 130A.3.1.4.2 P 209 L 2 # 268
Hidaka, Yasuo Fujitsu Lab of America	Healey, Adam Broadcom Ltd.
Comment Type TR Comment Status A	Comment Type T Comment Status A
The linear pulse fitting procedure in 94.3.12.5.2 is for PAM4 signal, and PRBS13Q is a PAM4 test pattern.	130A.3.1 already states that "A 5GSEI host input shall meet the specifications defined in Table 130A–1 if measured at the appropriate test point." and Table 130A-1 includes the
SuggestedRemedy	parameters defined in this subclause. It is not necessary to state the requirements again.
Use the linear pulse fitting procedure for NRZ that is described in 92.8.3.5.1 and use PRBS9 test pattern.	SuggestedRemedy Remove the last two sentences from this subclause. Note similar issues in 130A.3.1.6.
Response Response Status C	130A.3.1.7, 130A.3.3.2, and 130A.3.3.3.
ACCEPT IN PRINCIPLE.	Response Response Status C
	ACCEPT IN PRINCIPLE.
Change is similar to comment #267.	[Editor's note: this also applies too 128A.3.1.4.2, 128A.3.1.6, 128A.3.1.7, 128A.3.3.2, and
C/ 130A SC 130A.3.1.4.1 P 208 L 50 # 239	128A.3.3.3.
Ewen, John GlobalFoundries	See file
Comment Type T Comment Status A	http://www.ieee802.org/3/cb/public/nov16/mcmillan_3cb_01_1116_Annexes_128A&130AM
Why is a PAM4 pattern used for the linear fit pulse response when normal operation uses NRZ? Also the reference to 120.5.10.2.3 appears incorrect.	arkedUp.pdf
SuggestedRemedy	C/ 130A SC 130A.3.1.6 P 209 L 16 # 275
Use a PRBS9 test pattern for the linear pulse fit as specified in 120.5.11.1.2	Healey, Adam Broadcom Ltd.
Response Response Status C	Comment Type T Comment Status A
ACCEPT IN PRINCIPLE.	If the maximum permitted deterministic jitter is 0.12 UI and the maximum permitted random jitter is 0.15 UI, how could a compliant implementation exhibit jitter in excess of 0.27 UI? The specification seems to set the maximum jitter to 0.30 UI despite this.
See comment #267.	SuggestedRemedy
C/         130A         SC         130A.3.1.4.2         P 209         L 1         # 102           Calbone, Anthony         Seagate         Seagate <td>Check the jitter math. Note that DCD is considered a component of deterministic jitter as stated in 128A.3.1.6.</td>	Check the jitter math. Note that DCD is considered a component of deterministic jitter as stated in 128A.3.1.6.
Comment Type E Comment Status A	Response Response Status C
The is not a period after the 1st sentence.	ACCEPT IN PRINCIPLE.
SuggestedRemedy Add a period after 130A.3.1.4.1.	In Table 130A-1: Change maximum Tj to 0.27 UI.
Response Response Status C ACCEPT.	See file http://www.ieee802.org/3/cb/public/sep16/patra_3cb_01_0916_Jitter_number.pdf
	Change "Duty Cycle Distortion" line by indenting it and changing text to: Duty Cycle Distortion (included in Dj)

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/ 130A SC 130A.3.1.6 Page 72 of 75 11/9/2016 9:14:50 PM

C/ <b>130A</b> SC <b>130A.3.2</b> Calbone, Anthony	P <b>209</b> Seagate	L <b>40</b>	# 103	Cl 130A SC 130A.3.3 Calbone, Anthony	P <b>213</b> Seagate	L <b>9</b>	# 106
Comment Type E C The Units column is not wid	Comment Status <b>A</b> le enough for the title Un	its, so the "s" is	on a second line.	Comment Type E Col The Units column is not wide	<i>mment Status</i> <b>A</b> enough for the title Ur	nits, so the "s" is or	n a second line.
SuggestedRemedy Widen Units column so the	whole word fits into one	line.		SuggestedRemedy Widen Units column so the w	hole word fits into one	line.	
Response R ACCEPT.	esponse Status C			Response Res ACCEPT.	ponse Status C		
C/ 130A SC 130A.3.2.2 Laubach, Mark	P <b>209</b> Broadcom Lin	L <b>53</b> nited	# 11	C/ <b>130A</b> SC <b>130A.3.3</b> Calbone, Anthony	P <b>213</b> Seagate	L <b>30</b>	# 105
Comment Type E C Orphan subtitle. Keep with	Comment Status <b>A</b> next few lines.			Comment Type E Col The Subclause reference is ir	mment Status A		
SuggestedRemedy As per comment.				SuggestedRemedy Change the txsndr reference	to 130A.3.3.3		
Response Res	esponse Status C			Response Res ACCEPT IN PRINCIPLE. [Editor's note: where is 'txsnd	ponse Status <b>C</b>		
C/ <b>130A</b> SC <b>130A.3.2.2</b> Laubach, Mark	P <b>211</b> Broadcom Lin	L 13	# 12	Signal-to-noise-and-distortion		L <b>24</b>	# 040
Right side of box is missing	Comment Status A			Ewen, John Comment Type E Col	GlobalFoundr	ies	# 242
SuggestedRemedy As per comment.				Table 130A-6 The subclause SuggestedRemedy	reference for Pre-curs	or ratio is incorrec	t.
	esponse Status <b>C</b>			Refer to 130.7.1.11 or update	130A.3.3.1 to define	pre-cursor ratio.	
ACCEPT. C/ 130A SC 130A.3.2.3	P 211	L 35	# 104	Response Res ACCEPT.	ponse Status C		
Calbone, Anthony	Seagate			Reference changed to 130.7.	1.11		
Comment Type E C The reference to Table 130	Comment Status <b>A</b> A-10						
SuggestedRemedy Change Table 130A-10 to F	Figure 130A-10						
Response R ACCEPT.	esponse Status C						

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

C/ 130A SC 130A.3.3.1 Page 73 of 75 11/9/2016 9:14:50 PM

C/         130A         SC         130A.3.3.1         P 213         L 39         # 198           Hidaka, Yasuo         Fujitsu Lab of America	C/         130A         SC         130A.3.4         P 214         L 10         # 108           Calbone, Anthony         Seagate         Seagate         Image: constraint of the search of the sea
Comment Type <b>TR</b> Comment Status <b>A</b> The linear pulse fitting procedure in 94.3.12.5.2 is for PAM4 signal, and PRBS13Q is a PAM4 test pattern.	Comment Type <b>E</b> Comment Status <b>A</b> The Units column is not wide enough for the title Units, so the "s" is on a second line. SuggestedRemedy
SuggestedRemedy	Widen Units column so the whole word fits into one line.
Use the linear pulse fitting procedure for NRZ that is described in 92.8.3.5.1 and use PRBS9 test pattern.	Response Response Status C ACCEPT.
Response Response Status C ACCEPT IN PRINCIPLE.	C/ 130A SC 130A.3.4 P 214 L 10 # 13
Change is similar to comment #267.	Laubach, Mark Broadcom Limited
C/ 130A     SC 130A.3.3.1     P 213     L 41     # 240       wen, John     GlobalFoundries	Comment Type         E         Comment Status         A           Adjust column size to avoid breaking "s" of "Units" onto separate line.
<i>comment Type</i> <b>T</b> <i>Comment Status</i> <b>A</b> Why is a PAM4 pattern used for the linear fit pulse response when normal operation uses	SuggestedRemedy As per comment.
NRZ? Also the reference to 120.5.10.2.3 appears incorrect.	Response Response Status C ACCEPT.
Use a PRBS9 test pattern for the linear pulse fit as specified in 120.5.11.1.2	C/ 130A SC 130A.4.4.3 P 220 L 19 # 68
esponse Response Status C	Anslow, Pete Ciena
ACCEPT IN PRINCIPLE.	Comment Type E Comment Status A
See comment #267.	The IEEE style manual says "A multiplication sign (×), not the letter "x"" should be used for a multiply sign.
I 130A         SC 130A.3.3.2         P 213         L 46         # 107           albone, Anthony         Seagate	SuggestedRemedy Replace the "x" with a multiply sign (Ctrl-g 0).
Comment Type E Comment Status A	Check the draft for other instances.
There is an extra parenthesis around p(k)	Response Response Status C
uggestedRemedy Remove the extra parathesis. Change p(k)) to p(k).	ACCEPT.
Response Response Status C ACCEPT.	

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Cl 130B SC 130B D'Ambrosia, John	P <b>221</b> L 5 Futurewei, Subsidiary	# 119	C/ <b>130B</b> SC <b>130B.3</b> Donahue, Curtis	<i>P</i> <b>223</b> UNH-IOL	L <b>38</b>	# 322
Comment Type ER Annex 130B is primaril	Comment Status <b>A</b> ly a duplication of Annex 69B. Such d	uplication should be avoided.	Comment Type E "2.5GBASE-KX" should be	Comment Status <b>A</b> = "5GBASE-KR".		
5GBASE-KR	modify annex 69B to add in specific m xt in annex 12830b, and replace in ea		SuggestedRemedy Change to "5GBASE-KR" Response F ACCEPT.	Response Status C		
Response ACCEPT IN PRINCIPI	Response Status W		C/ <b>130B</b> SC <b>130B.3</b> Donahue, Curtis Comment Type <b>E</b>	P 223 UNH-IOL Comment Status A	L <b>43</b>	# 323
Use solution #1. Delete annex 130B, ar	nd place 5G information into 69A.		Looks like this sentence is	missing a subclause refe	erence, "in for 50	GBASE-KR".
/ <b>130B</b> SC <b>130B.1</b> onahue, Curtis	<i>P</i> 221 <i>L</i> 1 UNH-IOL	7 # 320	SuggestedRemedy Change to "in 130.7.2.1 fo			
<i>comment Type</i> <b>E</b> "Channel".	Comment Status A		Response F ACCEPT.	Response Status C		
<i>uggestedRemedy</i> Change to "channel" (I	owercase). Also in 128B.1.		Cl 344 SC 127.2.6.2.2 Law, David	Р <b>82</b> НРЕ	L <b>2</b>	# 344
Response ACCEPT.	Response Status C		In Figure 127–5 'PCS trans should read 'tp_en=0 * tp_			
/ <b>130B</b> SC <b>130B.2.2</b> onahue, Curtis	2 P 222 L 3 UNH-IOL	5 # 321	XMIT_DATA. SuggestedRemedy			
omment Type E "ILTC" should be "IL_T	Comment Status A	t.	See comment. Response F ACCEPT.	Response Status C		
Also in 128B.2.2.			AUGEF I.			
SuggestedRemedy Change "ILTC" to IL_T	C" in both locations.					
Response	Response Status C					

ACCEPT.

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

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