C/ SC 1 Laubach, Mark	P 30 Broadcom Lim	L 38 nited	# 2	C/FM SC FM P 8 L 7 # 331 Law, David HPE
Comment Type E Editing instruction: sug Same for line 45	Comment Status A gest changing "in after" to "af	ter".		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.
esponse ACCEPT.	Response Status C			Response Response Status C ACCEPT.
FM SC laguire, Valerie	P 1 Siemon	L 18	# 120	C/ FM SC FM P 8 L 16 # 72 Gardner, Andrew Linear Technology
Comment Type E Extraneous "." at the end	Comment Status A nd of the amendment title			Comment Type E Comment Status A Name for Task Force Editor-in-Chief is "FirstName SecondName."
uggestedRemedy Delete extraneous "."				SuggestedRemedy Insert correct name for Task Force Editor-in-Chief
Pesponse ACCEPT.	Response Status C			Response Response Status C ACCEPT IN PRINCIPLE.
f FM SC mith, Daniel	P 4 Seagate	L 10	# 132	Daniel F. Smith added as editor in chief. Jim Hatfield added as editor.
<i>comment Type</i> ER spelling of the word ara	Comment Status A			C/ FMSC AbstractP 3L 1# 330Donahue, CurtisUNH-IOL
SuggestedRemedy Arabic not arabic Response	Response Status C			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 Broadcom L
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 P 1 L 2 # 157 Grow, Robert RMG Consulting RMG Consulting RMG Consulting 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 state to save energy."	SuggestedRemedy Copy list from P802.3bv, adding IEEE Std 802.3bv-20xx. Delete the list from line 25.
Cl 00 SC 0 P L # 166 Grow, Robert RMG Consulting Image: Comment Type E Comment Status R	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.

C/ 00 SC 0

C/ 00 SC 0 Grow, Robert	P1 L2 RMG Consulting	# 152	C/ 00 SC 0 Grow, Robert	P 3 RMG Consulti	L 5	# 159	
Comment Type E	Comment Status A e the list of amendments and corrigenda c	omprising the base	Comment Type E	Comment Status A Idd just speed to keywords.	.9		
	is listed. (See IEEE Std 802.3by page tw		SuggestedRemedy Either delete speed	keywords or expand to 2.5 Gigat	oit Ethernet, etc	.	
Questioning the schedule to 12; and 802.3bs at the san to the list certainly can be approved before this project		s against Amendment up, so the list or edits almost certainly be	Response ACCEPT IN PRINC Replace 2.5 Gb/s at 2.5 Gigabit Etherne		eywords list.		
teleconference is 22 Sept,	as the year for yet to be approved projects so if P802.3cb/D2.1 is not distributed befor 3bz might appropriately be 2016, but the co 02.3bv should be 20xx.	pre knowing the	C/ 00 SC 0 Grow, Robert Comment Type E	P 8 RMG Consultin Comment Status A	L 18 ng	# 154	
SuggestedRemedy			51			to roviou the	
	D3.0 or indicate to be updated during pub e list at line 25.	lication preparation. If	The WG ballot group is now known. It is thoughtful to allow members to review the appearance of their names in case there is any error in the database. SuggestedRemedy Add list that the WG Chair can provide, (he will probably remind you not to duplicate office names in the added list).				
Response R ACCEPT IN PRINCIPLE.	Response Status C						
move it after .3bu.	ert amendment numbers3bv to be assig nagenta color turned to black.	ned amendment 9 and	Response ACCEPT IN PRINC [Editor's note: chair	Response Status C IPLE. to provide ballot group to editor.]			
Add TM after the amender list.]	nt names (example: 802.3bzTM-20xx) for a	all occurrences in this	C/ 00 SC 0 Grow, Robert	P 8 RMG Consulti	L 19 ng	# 160	
C/ 00 SC 0	P3 L1	# 158	Comment Type E	Comment Status A			
Grow, Robert	RMG Consulting			p is now known. It is thoughtful t names in case there is any error			
Comment Type E Incomplete first sentence.	Comment Status A		SuggestedRemedy				
SuggestedRemedy			Add list that the WG names in the added	G Chair can provide, (he will proba I 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: duplic	IPLE.			
Should read: Abstract: This amendment	t to IEEE Std 802.3-2015 defines Ethernet	Media					

C/ 00 SC 0 Page 3 of 76 11/10/2016 5:12:55 PM

C/ 00 SC 0 Grow, Robert	P 10 RMG Consultir	L 3 ng	# 161	C/ 00 SC 0 Grow, Robert	P 11 RMG Consulti	L 13 ng	# 155
Comment Type E This box is published undated year of the	<i>Comment Status</i> A d as part of the standard, so the standard.	self reference	should be to the		Comment Status A document descriptions.		
SuggestedRemedy Change P802.3cb to Response ACCEPT.	o IEEE Std 802.3cb-20xx. Response Status C			creating the draft in text is drawn from p	dding the document list with dra an Editor's note above this list a receding amendments and corrig fficient information for this purpo	s this is the first genda. The Edi	t location where base
C/ 00 SC 0 Grow, Robert Comment Type E Draft uses both 2012	P 10 RMG Consultir <i>Comment Status</i> A x and 20xx for yet to be approved	0	# 153	p. 12, l. 42 hopefully deleted "for" to do ti p.11, l.26 the public p.11, l.51 Physical	nt review updates to the list are a / publication editors will correct the hat in their drafts; shed standard includes Annex 10 Layer is the capitalization in P80 I/D3.1 adds to the last line of the	he grammar, otl 09C in the descr 02.3bn/D3.2;	ription;
projects getting start SuggestedRemedy Use one form to sim IEEE boilerplate.	unlikely to be subject to the uncerted now face that possible uncerted now face that possible uncerted policy search by publication editor	tainty.		description; p.12, I.24 The P80 amendment include 115A. This amendr	obably know, P802.3bv has bee 2.3bv/D3.0 description has been s changes to IEEE Std 802.3-20 nent adds point-to-point 1000 Mi arameters for operation on duple	significantly cha 15 and add clau b/s Physical Lay	anged. Update to: This use 115 and Annex yer (PHY) specifications
Response ACCEPT.	Response Status C			use in automotive, i	ndustrial, home network and oth adding Corregigendum 1 descri	er applications.	r iber (FOI) targetting
				Also add Corrigend Use .bv as an exam use of other drafts. this information.]	he exception .bu and .bn descrip	e needed conte particular draft (nt, based on 802.3cb's used, be quoted with

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

CI 00 SC 0

C/ 00 SC 0 Grow, Robert	P 11 L 2 RMG Consulting	6 # 162	C/ 00 SC 0 P 26 L 4 # 163 Grow, Robert RMG Consulting
Comment Type E Update with current docu	Comment Status A ment descriptions.		Comment Type E Comment Status A The amendment numbers for most of the listed documents have been established.
creating the draft in the E drawn from preceding am not include draft informati From my most recent rev p. 11, I. 26, add Annex 10 p. 11, I. 46 hopefully publ 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 appropria	t location where base text is litor's note list on p. 25 does ate: mar; s customary to list as 20xx customary to list as 20xx un een designated Amendment 9	
Response ACCEPT IN PRINCIPLE. [Editor's note: duplicate o	Response Status C		
C/ 00 SC 0 Grow, Robert	P 12 L 2 RMG Consulting	4 # <u>156</u>	
Comment Type E Update with current docu	Comment Status R ment descriptions.		
creating the draft in an Ec text is drawn from preced does not provide good in From my most recent rev p. 12, I. 42 hopefully publ deleted "for" to do that in p. 13, I. 8 add Amendmer	the document list with draft number ditor's note above this list as this is ing amendments and corrigenda. formation for this purpose. iew updates to the list are appropria ication editors will correct the gram their drafts; th 8 802.3bu and Amendment 9 802 ely to preceed approval of this proje	the first location where base The Editor's note list on p. 32 ate: mar, other projects have 2.3bv. Also consider adding	
0	Response Status C		

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 35	# 33	C/ 1	SC 1	1.3	P 26	L	. 15	# 164
nslow, Pete	Ciena			Grow, Ro	bert		RMG C	onsulting		
	Comment Status A other parts of the 802.3 standa		ed by "Clause",	<i>Comment</i> The s		ER r the doc	Comment Status F		y readers.	
Cross references to it Cross references to c	x" unless they are to the first I tems in the P802.3cb draft sho other parts of the 802.3 standa	ould be live hyper ard that are not in	links. the P802.3cb draft	Suggeste Pleas		-	pointing to where to ge	t the docume	ent.	
should be text with th	Response	;		Response Status	;					
SuggestedRemedy Scrub the entire draft according to the principles outlined in the comment. This means making at least the following changes:					CT. r's note:	SFF is a	already used in the base	e standard.]		
Page 26 line 35, "Cla Page 34 line 7, "70.6	use 127.2.4.1" should be "127 4" should be text with the cha			C/ 1 Grow, Rol	SC 1 bert	1.4	<i>P</i> 16 RMG C	L onsulting	. 19	# 165
	2.3.1" should be a hyperlink 1, "49.2", 55.3.6.3", "113.3.7.3	3" "126 3 7 3" sh	ould all be text with the	Comment	Type	Е	Comment Status)		
character tag "Extern Page 53 lines 17, 18, with the character tag Page 57 line 10, "128 Page 63 line 24 "Clau Page 63 line 45, "clau "External" applied Page 66 line 28, "Cla Page 69 line 30, "Cla Page 78 line 14, "Cla Page 125 line 20, "Cl Page 125 line 47, "Cl Page 126 line 14, "51 Page 126 line 14, "51 Page 128 line 11 "Cla Page 135 line 48 "sut Page 136 lines 21, 32	al" applied and 19 "Clause 49", "Clause y "External" applied A" and "130A" should be hype use 36" should be text with the use 35" should be "Clause 35" use 127.2.4.2" should be "127 use 127.2.4.2" should be "127 use 51.2" should be "51.2" ause 51.2" should be "51.8" .9" should be text with the cha ause 49" should be text with the pclause 130.6.5" should be "112 2 to 35, and 53, "Annex 31B",	49", and "Clause erlinks e character tag "E ' and text with the 7.2.4.2" 7.2.4.2" 7.2.4.2" 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 & we ac order 1BAS have alpha decim	about 50 02.3u ab Ided it af E-T and a unique numeric nal point d on the f dRemed	00 entries bandonin ter startin 2BASE- challeng characte ignored) following	vrite the sort rules for 1 s, the sort rules should ig IEEE sort order and i ng us on a path to almo TL were originally inser ge in resolving this beca ers. That means that 2. so that terms beginning characters. Response Status 2	be consistent nstead of ad st arbitrary a ted in IEEE s ause IEEE ru 5G and 25G g with 2.5G a	t, unfortuna ding 100 M nd somewl sort order. les ignore s are treated	tely, we broke that b/s before 10 Mb/s hat unpredictable With 2.5G, we now spaces and non- I the same (the
Page 137 line 42, "Cl	" should all be cross-reference ause 78" should be a cross-re and 23, "Table 130-4", "Equa	eference	l "Equation (130-5)"			t was WI	THDRAWN by the com	menter.		
Page 143 lines 29, ar cross-references Page 147 line 47, "13 Page 149 lines 2 and Page 149 line 44, "Cl Page 171 line 50, "92	nd 30, "Equation (130-5)", and 0.7.2.1" should be a cross-ref 36, "Clause 130" should be a ause 21" should be text with th .8.3.7" should be text with the nnex 128C.4.2" should be "128	ference cross-reference he character tag ' e character tag "E	in both places 'External" applied							
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

C/ 1 SC 1.4 Page 6 of 76 11/10/2016 5:12:55 PM

C/ 1 SC 1.4 P 26 L 27 # 210 Lusted, Kent Intel	C/ 1 SC 1.4 P 26 L 53 # 276 Donahue, Curtis UNH-IOL
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 Comment Status A "Clause 49 or Clause 82, Clause 107, or Clause 129."
SuggestedRemedy list all entries in editing instructions or remove explicit reference to terms in editing instructions.	SuggestedRemedy Remove the first "or" and add a "," so the sentence reads "Clause 49, Clause 82, Clause 107, or Clause 129."
Response Response Status W ACCEPT IN PRINCIPLE.	Response Response Status C ACCEPT.
List all entries in editing instructions.	C/ 1 SC 1.4.107 P 26 L 49 # 168
C/ 1 SC 1.4 P 26 L 40 # 211	Grow, Robert RMG Consulting
Lusted, Kent Intel Comment Type TR Comment Status A the definition for 5GBASE-R incorrectly references 10GBASE-R.	Comment Type E Comment Status A P802.3bs is also modifying this definition, if timelines hold true, this instruction and base text is correct.
SuggestedRemedy Consider changing "10GBASE-R" to "5GBASE-R" in 1.4.74a4 Response Response Status W ACCEPT.	Add an Editor's note to remind that 802.3bs is also modifying this definition and base text and editing instruction reference will have to be updated if 802.3bs is assigned a lower amendment number than 802.3cb.ResponseResponse StatusC
Cl 1 SC 1.4 P 26 L 50 # 212 Lusted, Kent Intel Comment Type TR Comment Status A	 ACCEPT IN PRINCIPLE. [Editor's note: use the following: 802.3bs is also modifying this definition and base text and editing instruction reference will have to be updated if 802.3bs is assigned a lower amendment number than 802.3cb.]
The P802.3bs project is modifying the definition of BASE-R also. The P802.3by-20xx project is P802.3-2016.	C/ 1 SC 1.4.74a6 P 26 L 46 # 167 Grow, Robert RMG Consulting
SuggestedRemedy Add to editor note the dependency on P802.3bs changes to the definition of BASE-R.	Comment Type E Comment Status A 5GSEI should follow 5GBASE-T inserted by IEEE Std 802.3bz-20xx.
Update reference to 802.3by with the published year. <i>Response Response Status</i> W	SuggestedRemedy Add editing instruction referencing IEEE Std 802.3bz-20xx and renumber 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: comment #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 76 11/10/2016 5:12:55 PM

C/ 1 SC 1.4.74aa	a P 26	L 21	# 32	C/ 30	SC 30.3.2.1.	2	P 29	L 19	# 34
nslow, Pete	Ciena			Anslow, F	Pete		Ciena		
omment Type E	Comment Status A			Comment	Type E	Comment S	tatus A		
There is no need to sa There is no need to sa	nstructions 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 we	re inserted by IE	EEE Std 802.		at the 2.5GBASE-T o 30.3.2.1.3
amendment. The list of definitions i	is incorroct			Suggeste	dRemedy				
"5GSEI" should be af				Chan	ge the editing ins	tructions in 30.3	3.2.1.2 to:		
SuggestedRemedy					rt the following ne 5GBASE-T (as in				.2.1.2 after the entry
1.4.74a 2.5GBASE-T Change the second e 2.5GPII, 2.5GSEI, 5G by IEEE Std 802.3bz- Add a new editing ins	truction before the definition to 568ASE-T (as inserted by IE	2.3bz-201x) as foll e 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	t 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	ew entry in "APF erted by IEEE S structions in 30.3 ew entry in "APF iserted by IEEE ew entry in "APF	PROPRIATE td 802.3bz-2 3.2.1.3 to: PROPRIATE Std 802.3bz- PROPRIATE td 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			ACCE		Response Si			
ACCEPT.									
/ 1 SC 1.4.74aa	a <i>P</i> 26	L 25	# 14	C/ 30	SC 30.5.1.1.	-	P 30	L 10	# 35
ajduczenia, Marek	Charter Con	-	π 14	Anslow, F			Ciena		
omment Type E "IEEE Std 802.3bs™-	Comment Status R 201x" is not marked as Ame	ndment 8					odified by .3b	oz, it was inserted T"	by .3bz.
uggestedRemedy				Suggeste	dRemedy				
Add "Amendment 8-	-" ahead of "This amendment e 116 through Clause 124" st		s to IEEE Std 802.3-					l by" to "as inserte SE-T" to "5GBASI	
<i>esponse</i> REJECT. Amendment 8 is 802.	Response Status C 3bu, 802.3bs has not been a	ssigned an amend	lment number.	Response ACCE		Response Si	tatus C		
/ 1 SC 1.5 aden, Eric	P 27 Broadcom L	L 6 imited	# 243						
omment Type ER 2.5GSEI line is missir	Comment Status A	entence. Also 5G	SEI						
<i>uggestedRemedy</i> Fix them									
esponse ACCEPT.	Response Status W								
		.,	T # 1 · 1 F # 19 · 1 O #				ou -	_	

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 76 11/10/2016 5:12:55 PM

C/ 30 SC 30.5.1.1.2	2 <i>P</i> 30 UNH-IOL	L 14	# 324	C/ 31B SC 3 ⁴ Anslow, Pete	IB.3.7	<i>P</i> 155 Ciena	L 35	# 60
Comment Type E	Comment Status D After reviewing other aMAUT	ſypes, I can't finc	l other instances of	Comment Type		Comment Status A ed improvement		
Proposed Response REJECT.	ine 20. aMAUType descriptions <i>Response Status</i> Z THDRAWN by the commente	er.		Change the firs (as inserted by Change the sec after the paragr 802.3bz-201x) Change the thir after the paragr 201x) as follow Remove the un	t editing IEEE S cond ed aph sta as follov d editin aph sta s:" derline	instruction to: "Change the fi td 802.3bz-201x) as follows:" (ting instruction to: "Insert a n rting "2.5 Gb/s (using 2.5GBA vs:" g instruction to: "Insert a new rting "5 Gb/s (using 5GBASE from "5 Gb/s (not using 5GBA e insert editing instruction doe	ew paragraph i ASE-T) " (as ins paragraph in 3 -T) " (as inserte ASE-T) - max_c	n 31B.3.7 immediately erted by IEEE Std 1B.3.7 immediately ed by IEEE Std 802.3b overrun = 768+
X 30 SC 30.6.1.1.5 Inslow, Pete	<i>P</i> 30 Ciena	L 38	# 36	Response ACCEPT.		Response Status C		
Comment Type E The entries for 2.5GBA by .3bz. "in after the entry" does	Comment Status A SE-T and 5GBASE-T were n sn't make sense.	ot modified by .3	bz, they were inserted	Cl 31B SC 3 Anslow, Pete Comment Type	IB.4.3 E	P 156 Ciena Comment Status A	L 7	# 61
uggestedRemedy In the two editing instru change "in after the" to change "as modified by	ctions: "after the".				order as ntly.	ows as items *MIIcc and *MII s it is currently and also not sl		
Response ACCEPT.	Response Status C			*MIIca (as inse for *MIIcb (as ir (unchanged row Renumber item Change editing TIM4a (as inse	instruct ted by l serted vs not s s accor instruct ted by l serted vs not s	dinglý. ion in 31B.4.6 to: "Insert a ne EEE Std 802.3bz-201x) and a by IEEE Std 802.3bz-201x) ir hown):"	a new row for * h the table in 31 ew row for TIM4 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 76 11/10/2016 5:12:55 PM

C/ 31B SC 31B.4.3 Anslow, Pete	<i>P</i> 156 Ciena	L 13	# 62	Cl 45 SC 45.2.1.1.5 Anslow, Pete	P 31 Ciena	L 31	# 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 C	n PHY types oti	ner than 5GBASE-1"	C/ 45 SC 45.2.1.1.5 McClellan, Brett	P 31 Marvell	L 31	# 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 C			C/ 45 SC 45.2.1.6 Grow, Robert	P 31 RMG Consult	L 38 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> C	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 76 11/10/2016 5:12:55 PM

Anslow, Pete	<i>P</i> 31 Ciena	L 48	# 39	C/ 45 SC 45.2.1.14c.a P 33 L 12 # 42 Anslow, Pete Ciena
Comment Type T Most other entries in this t	Comment Status A able end "PMA/PMD", e.g	J. "10GBASE-KR	PMA/PMD"	Comment Type E Comment Status A "Std" and a space missing in the editing instruction.
SuggestedRemedy Change "5GBASE-KR" to Change "2.5GBASE-KX" t				SuggestedRemedy change "by IEEE 802.3bz-201x)as" to "by IEEE Std 802.3bz-201x) as"
-	Response Status C			Response Response Status C ACCEPT IN PRINCIPLE.
2/ 45 SC 45.2.1.7.4 Inslow, Pete	P 32 Ciena	L 6	# 40	Global replace: 802.3bz-201x with 802.3bz-2016 and 802.3by-201x with 802.3by-2016.
Reference to 802.3bz is ga	Comment Status A arbled in 45.2.1.7.4, 45.2.	1.7.5, and 45.2.1	8	C/ 45 SC 45.2.1.88 P 33 L 28 # 174 Hidaka, Yasuo Fujitsu Lab of America Fujitsu Lab of Amer
uggestedRemedy In the editing instructions i "IEEE802.3-201x Std 802. "IEEE Std 802.3bz-201x"		and 45.2.1.8 chan	ge:	Comment Type E Comment Status A Here, MDIO register names for 1.160 and 1.160 are changed. Those register names also appear in Table 70-2 and Table 70-3 in clause 70.5, but editing instructions are missing.
esponse F ACCEPT IN PRINCIPLE.	Response Status C			SuggestedRemedy Provide editing instructions to change register names in Table 70-2 and Table 70-3 in clause 70.5 so that the PMA/PMD register names are consistent.
	n 15 2 1 7 1 15 2 1 7 5 /	and 45.2.1.8 char	ge:	-
In the editing instructions i "IEEE802.3-201x Std 802. "IEEE Std 802.3bz-2016"			0	Response Response Status C ACCEPT IN PRINCIPLE.
"IEEE802.3-201x Std 802. "IEEE Std 802.3bz-2016" / 45 SC 45.2.1.14c nslow, Pete		L 50	# <mark>41</mark>	
"IEEE802.3-201x Std 802. "IEEE Std 802.3bz-2016" / 45 SC 45.2.1.14c nslow, Pete	3bz" to: P 32 Ciena Comment Status A eds to state where Table 4 e new rows in the table (v	L 50 45-17c can be fou which are only app	# 41	ACCEPT IN PRINCIPLE. Pull in Clause 70.5 into our .cb draft and change control and status register names in Tab 70-2 and Table 70-3. Provide the editing instructions. Note: this comment is on Clause 70, not Clause 45.
"IEEE802.3-201x Std 802. "IEEE Std 802.3bz-2016" 45 SC 45.2.1.14c Inslow, Pete Domment Type E The editing instruction need Given the underlining of the "change" editing instruction uggestedRemedy Change the editing instruct	3bz" to: P 32 Ciena Comment Status A eds to state where Table 4 ie new rows in the table (N n) it is simplest to make t tion to: "Change the row f	<i>L</i> 50 45-17c can be fou which are only app he editing instruct for 1.21.15:2 in Ta	# 41 nd. propriate for a tion a simple "change". able 45-17c (as	ACCEPT IN PRINCIPLE. Pull in Clause 70.5 into our .cb draft and change control and status register names in Tab 70-2 and Table 70-3. Provide the editing instructions. Note: this comment is on Clause 70, not Clause 45. [Editor's note: file 802.3-2015_SECTION5.pdf] C/ 45 SC 45.2.1.88 P 33 L 32 # 43 Anslow, Pete Ciena Comment Type E Comment Status A "." missing from the end of the sentence.
"IEEE802.3-201x Std 802. "IEEE Std 802.3bz-2016" / 45 SC 45.2.1.14c Inslow, Pete <i>comment Type</i> E The editing instruction nee Given the underlining of th "change" editing instruction <i>uggestedRemedy</i> Change the editing instruction inserted by IEEE Std 802.	3bz" to: P 32 Ciena Comment Status A eds to state where Table 4 ie new rows in the table (N n) it is simplest to make t tion to: "Change the row f	<i>L</i> 50 45-17c can be fou which are only app he editing instruct for 1.21.15:2 in Ta	# 41 nd. propriate for a tion a simple "change". able 45-17c (as	ACCEPT IN PRINCIPLE. Pull in Clause 70.5 into our .cb draft and change control and status register names in Tab 70-2 and Table 70-3. Provide the editing instructions. Note: this comment is on Clause 70, not Clause 45. [Editor's note: file 802.3-2015_SECTION5.pdf] Cl 45 SC 45.2.1.88 P 33 L 32 # 43 Anslow, Pete Ciena Comment Type E Comment Status A

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 C/ 45
 Page 11 of 76

 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
 11/10/2016 5:12:55 PM

 SORT ORDER: Clause, Subclause, page, line
 SC 45.2.1.88
 11/10/2016 5:12:55 PM

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

Baden, Eric Broadcom Limited	# 244	C/ 45 SC 45.2.3.7a Lusted, Kent	P 35 Intel	L 21	# 213
Comment Type E Comment Status A Two issues first issue: formatting - 45.2.3.7a refers to Table 45- placed between the edit instruction and the referred table.	124a, but Table 45-123 is	Comment Type ER table 45-124a entries fo indicate insertions per e	Comment Status A or bits 3.9.2 and 3.9.3 are no editing instructions	ot underlined (per	IEEE style guide) to
SuggestedRemedy		SuggestedRemedy			
1) move Table 45-123 before 45.2.3.7a		Underline as necessary			
Response Response Status C ACCEPT.		Response ACCEPT.	Response Status W		
C/ 45 SC 45.2.3.7.a P 36 L 23	# <u>2</u> 45	Same as comment #15			
Baden, Eric Broadcom Limited Comment Type E Comment Status		C/ 45 SC 45.2.3.7a Lusted, Kent	P 35 Intel	<i>L</i> 21	# 202
without any revision marks. BTW revision marks are not allowed SuggestedRemedy Change the edit instruction to "modify", and note inserted lines 3.9 Response Response Status C ACCEPT.		Comment Type ER table 45-125a entries for indicate insertions per e SuggestedRemedy Underline as necessary	Ū	not underlined (p	per IEEE style guide) to
ACCEP1:		Response	Response Status W		
C/45SC45.2.3.7aP 35L 15Hajduczenia, MarekCharter Communicatio	# 15	ACCEPT. Same as comment #15			
Comment Type E Comment Status A Rows in Table 45–124a modified (added) by this project are not m	narked in underline	<i>Cl</i> 45 <i>SC</i> 45.2.3.7 a. Anslow, Pete	a P 35 Ciena	L 34	# 44
			0.0.10		
SuggestedRemedy		Comment Type E	Comment Status A		
		Comment Type E There is no editing instr For the moment, assun		f P802.3cb as pe	
SuggestedRemedy Mark rows for bits 3.9.3 and 3.9.2 Response Response Status C	rline.]	Comment Type E There is no editing instr For the moment, assum on page 34, line 52. If SuggestedRemedy Add the editing instructi	Comment Status A uction for 45.2.3.7a.a or 45. he that P802.3bs is ahead o	f P802.3cb as pe P802.3bs, this will	I need to change.
SuggestedRemedy Mark rows for bits 3.9.3 and 3.9.2 Response Response Status C ACCEPT.	rline.]	Comment Type E There is no editing instr For the moment, assum on page 34, line 52. If SuggestedRemedy Add the editing instructi	Comment Status A uction for 45.2.3.7a.a or 45. that P802.3bs is ahead of P802.3cb moves ahead of F on: "Insert 45.2.3.7a.a and	f P802.3cb as pe P802.3bs, this will	I need to change.
SuggestedRemedy Mark rows for bits 3.9.3 and 3.9.2 Response Response Status C ACCEPT.	rline.]	Comment Type E There is no editing instr For the moment, assum on page 34, line 52. If SuggestedRemedy Add the editing instruct inserted by IEEE Std 80	Comment Status A uction for 45.2.3.7a.a or 45. he that P802.3bs is ahead of P802.3cb moves ahead of F on: "Insert 45.2.3.7a.a and 02.3bs-201x) as follows:"	f P802.3cb as pe P802.3bs, this will	I need to change.

C/ **45** SC **45.2.3.7a.a**

C/ 45 SC 45.2.3.7a.a P 35 L 34 # 16 Hajduczenia, Marek Charter Communicatio Charter Communicatio	Cl 45 SC 45.2.3.9a P 36 L 7 # 17 Hajduczenia, Marek Charter Communicatio 17
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:	Cl 45 SC 45.2.3.14.3 P 37 L 43 # 18 Hajduczenia, Marek Charter Communicatio Charter Communicatio End End End End End End End End SC End End
If 45 SC 45.2.3.9a P 36 L 3 # 45 Inslow, Pete Ciena	Comment Type E Comment Status A Please make sure that "/" is not used for hyphenation
comment Type E Comment Status A	SuggestedRemedy
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. uggestedRemedy	Alternatively, place a forced line break ahead of: "5/10/25/40/100GBASE-R" to make su that designators are not broken across lines Response Response Status C ACCEPT.
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. <i>aggestedRemedy</i> 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.	Alternatively, place a forced line break ahead of: "5/10/25/40/100GBASE-R" to make su that designators are not broken across lines Response Response Status CL ACCEPT. Cl 45 SC 45.2.7.2.1 P 38 L 28 # 46 Anslow, Pete Ciena
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 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. Also there is a space missing in "3.21.6:3in". Response Response Status C ACCEPT IN PRINCIPLE.	Alternatively, place a forced line break ahead of: "5/10/25/40/100GBASE-R" to make su that designators are not broken across lines Response Response Status CL 45 SC 45.2.7.2.1 P 28
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. uggestedRemedy 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. Also there is a space missing in "3.21.6.3in". Pesponse Response Status	Alternatively, place a forced line break ahead of: "5/10/25/40/100GBASE-R" to make su that designators are not broken across lines Response Response Status C ACCEPT. C/ 45 SC 45.2.7.2.1 P 38 L 28 # 46 Anslow, Pete Ciena 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

C/ **45** SC **45.2.7.2.1** Page 13 of 76 11/10/2016 5:12:56 PM

C/ 45 SC 45.2.7.12 Hajduczenia, Marek	P 38 Charter Comr	L 38 nunicatio	# 19	C/ 45 SC 45.5.3.1 P 41 L 28 # 327 Donahue, Curtis UNH-IOL	
Comment Type E Rows in Table 45–209 m	Comment Status A nodified (added) by this proj	ect are not mark	ed in underline	Comment Type E Comment Status A In the status column, one of the values is "5GKX:M". This should be "5GKR:M".	
SuggestedRemedy Mark rows for bits 7.48.1		1100		SuggestedRemedy Change to "5GKR:M".	
Response ACCEPT.	e 45–211aa and Table 45–2 <i>Response Status</i> C	TTAD		Response Response Status C ACCEPT.	
Same as comment #15.				C/ 45 SC 45.5.3.1 P 41 L 28 # 48 Anslow, Pete Ciena Ciena	
C/ 45 SC 45.2.7.14a Donahue, Curtis Comment Type E	a P 39 UNH-IOL Comment Status A	L 25	# 326	Comment Type T Comment Status A In item MM124, Status "2.5GKX:M 5GKX:M KX:M KX4:M KR:M", "5GKX:M" should t "5GKR:M"	ре
In the description column be "2.5GBASE-KX".	n of the third row in Table 4	5-211aa, "2.5GB	ASE-KR". This shoul	SuggestedRemedy Change "5GKX:M" to "5GKR:M"	
SuggestedRemedy Change to "2.5GBASE-K	<x".< td=""><td></td><td></td><td>Response Response Status C ACCEPT.</td><td></td></x".<>			Response Response Status C ACCEPT.	
Response ACCEPT.	Response Status C			C/ 45 SC 45.5.3.6 P 41 L 35 # 49 Anslow, Pete Ciena	
C/ 45 SC 45.5 Anslow, Pete	<i>P</i> 41 Ciena	L 2	# 47	Comment Type E Comment Status A There are no editing instruction for items "*2.5GX" or "*5GR"	
Comment Type E The heading for 45.5 sho	Comment Status A ould include a copyright rele	ase footnote.		SuggestedRemedy Add an editing instruction for items "*2.5GX" and "*5GR"	
SuggestedRemedy Add the footnote				Response Response Status C ACCEPT IN PRINCIPLE.	
Response ACCEPT.	Response Status C			Add: "Change the following PCS row by adding 2.5GX and 5GX as shown below (unchang rows not shown):"	ged
PICS proforma in this su further publish the comp < <partially implem<="" td=""><td>ICS proformas: Users of thi ibclause so that it can be us leted PICS. ENTED>></td><td></td><td></td><td></td><td></td></partially>	ICS proformas: Users of thi ibclause so that it can be us leted PICS. ENTED>>				
[Editor's note: framemak	er neip needeaj				
YPE: TR/technical required COMMENT STATUS: D/disp SORT ORDER: Clause, Sub	batched A/accepted R/reje				4 of 76 016 5:12:5

C/ 69 SC 69.1.1 Donahue, Curtis	<i>P</i> 43 UNH-IOL	L 16	# 328	<i>CI</i> 73 Marris, Ar	SC 73.3 thur	P 47 Cadence De	<i>L</i> 46 sign Syst	# 215			
Comment Type E "1000 Mb/s, 2.5Gb/s,	Comment Status A 5 Gb/s, 10 Gb/s," There sl	nould be a space	e in "2.5Gb/s".	Comment Editor		Comment Status A nould 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				fix in 73.6.4 and						
C/ 69 SC 69.1.1	P 43	L 16	# 50	Response ACCE		Response Status C					
Anslow, Pete <i>Comment Type</i> E	Ciena Comment Status A			<i>Cl</i> 73 Anslow, P	SC 73.3 Pete	P 47 Ciena	L 46	# 51			
Space missing in "2.5G	b/s" and comma missing in I	base text after "2	25 Gb/s" on line 17	Comment	Type E	Comment Status A					
change to "2.5 Gb/s" an Response ACCEPT.	nd add comma after "25 Gb/s <i>Response Status</i> C	s" on line 17		IEEE In the	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 47 UNH-IOL Comment Status A	L 33	# <u>329</u>	by IEI Chan (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 thi	# 5 <u>1</u> nge" editing instruction. ragraph" aph of 73.3 (as modified ird paragraph of 73.6.4			
	er the MEDIUM symbol it say) Gb/s". Should read "1 Gb/s,			Response	9	Response Status C		-3			
SuggestedRemedy				1001							
Add spaces so it reads	"1 Gb/s, 2.5 Gb/s, 5 Gb/s, 1	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> 73 Anslow, P	SC 73.7.4.1 Pete	P 49 Ciena	L 52	# 52			
Response ACCEPT.	Response Status C			<i>Comment</i> Since		Comment Status A ed to show the changes, this I	nas to be a "chan	ge" editing instruction.			
				Suggester Chan		struction to: "Change 73.7.4.1	as follows:"				
				Response ACCE		Response Status C					
				Same	e as comment #*	15.					

Cl 73 SC 73.10.1 Smith, Daniel	P 48 Seagate	L 13	# 131	C/ 78 SC 78 Trowbridge, Steve	<i>Р</i> 53 Nokia	<i>L</i> 1	# 123
Comment Type E an_receive_idle	Comment Status D				Comment Status A P802.3cd project concluded uses it, so decided not to exte		
SuggestedRemedy correct spelling for th	nis term?			SuggestedRemedy			
Proposed Response				Consider whether de	ep sleep support can be omitt	ed from EEE for	P802.3cb
REJECT.	Response Status Z			Response ACCEPT IN PRINCI	Response Status C		
This comment was W	VITHDRAWN by the commente	er.		We considered Deep No change needed.			
C/ 73 SC 73.10.1 Anslow, Pete	l P 49 Ciena	L 44	# 53	C/ 78 SC 78.1.1 Slavick, Jeff	P 53 Broadcom Li	L 18	# 125
Comment Type E Since the editing inst shown as per IEEE S SuggestedRemedy	truction says "Change the list o Std 802.3by-2016.	f variables" the e	ntire list has to be	Comment Type TR The change from "the SuggestedRemedy	Comment Status A ese" to a list of Clauses didn't	keep the entire li	st.
	e list or change this to an "inse	rt" editing instruct	tion (which does not	,	e list of Clauses can generate	RX_LPI_ACTIV	E
Either show the entire use the underline fon Response	re list or change this to an "inse ht to show the insertion) and rer <i>Response Status</i> C			,	e list of Clauses can generate Response Status W	RX_LPI_ACTIV	E
Either show the entire use the underline for Response ACCEPT IN PRINCIP	nt to show the insertion) and rer Response Status C			Add Clause 107 to th Response	-	RX_LPI_ACTIV	E # <u>5</u> 4
Either show the entire use the underline for Response ACCEPT IN PRINCIF Change this to an 'ins Cl 73 SC 73.11.4 Lusted, Kent Comment Type TR	nt to show the insertion) and rer Response Status C PLE. sert' editing instruction. 1.4 P 51 Intel Comment Status D nge to Std 802.3-2015 Clause 7	nove the other ro	ws. # 214	Add Clause 107 to the Response ACCEPT. C/ 78 SC 78.1.1 Anslow, Pete Comment Type T The base text says ", Where "these PCS ty Now the text has been from the list. SuggestedRemedy	Response Status W P 53 Ciena Comment Status A Additionally these PCS types of opes" are the Clause 49 PCS, on changed to make the types	L 19 generate the RX_ Clause 107 PCS	# 54 LPI_ACTIVE signal and Clause 82 PCS.
Either show the entire use the underline for Response ACCEPT IN PRINCIF Change this to an 'ins Cl 73 SC 73.11.4 Lusted, Kent Comment Type TR PICS is missing char 2.5GBASE-KX paralle SuggestedRemedy	nt to show the insertion) and rer Response Status C PLE. sert' editing instruction. 1.4 P 51 Intel Comment Status D nge to Std 802.3-2015 Clause 7	<i>L</i> 5 73.11.4.4 PICS er	ws. # 214	Add Clause 107 to the Response ACCEPT. Cl 78 SC 78.1.1 Anslow, Pete Comment Type T The base text says ", Where "these PCS ty Now the text has bee from the list. SuggestedRemedy Add the Clause 107 to the Add Clause 107 to the Comment Type T Cl 78 SC 78.1.1 Anslow, Pete Comment Type T Cl 78 SC 78.1.1 Anslow, Pete Comment Type T Cl 78 SC 78.1.1 Cl 78 SC 78.1	Response Status W P 53 Ciena Comment Status A Additionally these PCS types of /pes" are the Clause 49 PCS, in changed to make the types PCS to the list.	L 19 generate the RX_ Clause 107 PCS	# 54 LPI_ACTIVE signal and Clause 82 PCS.
Either show the entire use the underline for Response ACCEPT IN PRINCIF Change this to an 'ins Cl 73 SC 73.11.4 Lusted, Kent Comment Type TR PICS is missing char 2.5GBASE-KX paralle SuggestedRemedy Change PICS entry for	nt to show the insertion) and rer Response Status C PLE. sert' editing instruction. 4.4 P 51 Intel Comment Status D nge to Std 802.3-2015 Clause 7 lel detection for RF5 to include 2.5GBASE-K Response Status W	<i>L</i> 5 73.11.4.4 PICS er	ws. # 214	Add Clause 107 to the Response ACCEPT. C/ 78 SC 78.1.1 Anslow, Pete Comment Type T The base text says ", Where "these PCS ty Now the text has been from the list. SuggestedRemedy	Response Status W P 53 Ciena Comment Status A Additionally these PCS types of opes" are the Clause 49 PCS, on changed to make the types	L 19 generate the RX_ Clause 107 PCS	# 54 LPI_ACTIVE signal and Clause 82 PCS.
Either show the entire use the underline for Response ACCEPT IN PRINCIF Change this to an 'ins Cl 73 SC 73.11.4 Lusted, Kent Comment Type TR PICS is missing char 2.5GBASE-KX paralle SuggestedRemedy Change PICS entry for Proposed Response ACCEPT IN PRINCIF	nt to show the insertion) and rer Response Status C PLE. sert' editing instruction. 4.4 P 51 Intel Comment Status D nge to Std 802.3-2015 Clause 7 lel detection for RF5 to include 2.5GBASE-K Response Status W	<i>L</i> 5 73.11.4.4 PICS er	ws. # 214	Add Clause 107 to the Response ACCEPT. Cl 78 SC 78.1.1 Anslow, Pete Comment Type T The base text says ", Where "these PCS ty Now the text has been from the list. SuggestedRemedy Add the Clause 107 to Response	Response Status W P 53 Ciena Comment Status A Additionally these PCS types of /pes" are the Clause 49 PCS, in changed to make the types PCS to the list.	L 19 generate the RX_ Clause 107 PCS	# 54 LPI_ACTIVE signal and Clause 82 PCS.

C/ 78 SC 78.1.1

C/ 78 SC 78.1.4	P 53	L 51	# 170	C/ 125	SC 125	.1.3	P 55	L 47	# 122
Grow, Robert	RMG Consult	ing		Trowbridg	je, Steve		Nokia		
Comment Type ER Please note that P8 Table 1 considering Tables 78.2 and 78 tables. Unless IEE 2.5G and 5G values SuggestedRemedy While insert relative order problem in P8 Response ACCEPT IN PRINC	Comment Status A 802.3bz/D3.3 as submitted to Re 9 the insert of P802.3bp, but faile 9 similarly. P802.3bv is also in E Std 802.3bz corrects this prob 9 in Tables 2 and 4 will be insert 9 to is fine, you need to encourage 9 802.3/D3.3 or this project will cor 8 Response Status C	vCom properly in d to update the e serting three port lem, during public ed in the midst of ge publication edi	diting instructions for types into all three cation preparation, the 1000BASE-terms. tors to correct the	Comment Uncle in this omitti positi interfa consi 2.5G Suggeste Either	t Type T ear what the s project. In the ing the redur on in the LD ace targeted ace across a stent coding and 5G PH bdRemedy r use 66B co hale for why t	justification is the P802.3bz p indant sync hea IPC parity fram I at storage ner a transport netw for each PHY Ys using a unic oding for the 2. this interface n	nent Status A for selecting differe project, they are the ader bit since the ali te). While it isn't like tworks would be into work, this departs fr	same (66B equi gnment of blocks ely, for example, f erconnected with om the recent tre 5GBASE-X an "o face, or provide a	that a 2.5G backplane a 2.5GBASE-T end to have a utlier" in the family of
Cl 125 SC 125 Anslow, Pete Comment Type E	P 55 Ciena Comment Status A	L 8	# 55	Tech		al is outlined in	William Lo's prese blic/mar16/Lo_3cb_		
Clause 125 is not in amendments that p	1 IEEE Std 802.3-2015, so the re recede 802.3cb.	eader needs som	e help to find it in the 9	Basel			in March 16, 2016.		
However, there are	9 editing instructions in Clause	125 and it is cum	bersome to add "(as	Cl 125	SC 125	.1.4	P 57	L 23	# 117
	td 802.3by-2016)" to all of them. Incountered by the IEEE Std 802	2 3 hm 2015 amor	admont of Clause 01	D'Ambros	ia, John		Futurewei, Si	ubsidiary	
and the solution ad	opted during publication was to a	add: "Note that C	lause 91 was	Comment	51		ment Status A		
-	Std 802.3bj-2014." before the fi	rst heading for CI	ause 91.						K, however, in 73.3 it is ng that AN is optional
SuggestedRemedy							mented per Clause		
125 heading.	ise 125 was introduced by IEEE	Std 802.3bz-201	x." above the Clause	Suggeste	dRemedy				
Response	Response Status C			Chan	ge entry in t	able for Row 2	.5GBASE-KX to inc	licate that Clause	e 73 FEC is M
ACCEPT IN PRINC				Response	Э	Respo	nse Status C		
Add "Note that Clau 125 heading.	ise 125 was introduced by IEEE	Std 802.3bz-201	6." above the Clause		EPT IN PRIN		.5GBASE-KX to ind	icate that Clause	e 73 Auto-Negotiation i

C/ 125 SC 125.1.4 Page 17 of 76 11/10/2016 5:12:56 PM

P 57	L 33	# 56	C/ 125 SC 125.3	P 58	3 L 11	# 277
Ciena			Donahue, Curtis	UNH-I	OL	
Comment Status A			Comment Type T	Comment Status	Α	
in 125.2.2 and 125.2.3 do n	ot conform to the	e usual style.		n and added rows in Tab	ble 125-3 have errors,	and the instructions
uction for 125.2.2 to: "Insert	the following pa	ragraph at the end of		<i></i>		
uction for 125.2.3 to: "Insert	the following pa	ragraph at the end of	2.5GBAŠE-X PCS/F	PMA, 2.5GBASE-KX PM	D, 5GBASE-R PCS/P	
Response Status C			2) Change the value	in the third row of the S	ublavar column to "2 F	
			a row above "2.5GB	BASE-KX PMD", in the Su	ublayer column use "2	
P 58	L 10	# 57	Response	Response Status	с	
Ciena			ACCEPT IN PRINC	IPLE.		
Comment Status A			0		one each for 2 5GB	ASE-KY PHY 5GBASE-
0	made to the tab	le (and it should not try	5	, ,		-
le 125-3 as follows:"			This change is cons	sistant with the last Task	Force comment resolu	ution.
Response Status C			C/ 127 SC 127	P 59) L1	# 58
			Anslow, Pete	Ciena		
			Comment Type E	Comment Status	Α	
			There is no editing in	nstruction for Clauses 12	27 to 130	
			SuggestedRemedy			
			Add a new editing in			
			Response	Response Status	С	
			ACCEPT.			
			C/ 127 SC 127.1.	1 P 59) L 10	# 278
			Donahue, Curtis	UNH-I	OL	
			Comment Type E "2.5Gb/s	Comment Status	Α	
			SuggestedRemedy Change to "2.5 Gb/s	5"		
			Response	Response Status	c	
	Ciena <i>Comment Status</i> A in 125.2.2 and 125.2.3 do not function for 125.2.2 to: "Insert <i>Response Status</i> C <i>P</i> 58 Ciena <i>Comment Status</i> A loes not match the changes in detail). ole 125-3 as follows:"	Ciena <i>Comment Status</i> A in 125.2.2 and 125.2.3 do not conform to the function for 125.2.2 to: "Insert the following para truction for 125.2.3 to: "Insert the following para <i>Response Status</i> C <i>P</i> 58 <i>L</i> 10 Ciena <i>Comment Status</i> A loes not match the changes made to the tables in detail). ple 125-3 as follows:"	Ciena Comment Status A in 125.2.2 and 125.2.3 do not conform to the usual style. Participation for 125.2.2 to: "Insert the following paragraph at the end of ruction for 125.2.3 to: "Insert the following paragraph at the end of Response Status C P 58 L 10 # 57 Ciena Comment Status A loses not match the changes made to the table (and it should not try s in detail). ble 125-3 as follows:"	Ciena Comment Status A in 125.2.2 and 125.2.3 do not conform to the usual style. uction for 125.2.2 to: "Insert the following paragraph at the end of uction for 125.2.3 to: "Insert the following paragraph at the end of <i>Response Status</i> C <i>P</i> 58 <i>L</i> 10 <i>#</i> 57 Ciena <i>P</i> 58 <i>L</i> 10 <i>#</i> 57 Ciena <i>Comment Status</i> A to be not match the changes made to the table (and it should not try in detail). Del 125-3 as follows:" <i>Response Status</i> C <i>CI</i> 127 <i>SC</i> 127 Anslow, Pete <i>Comment Type</i> E There is no editing it to 130 and correspond <i>A</i> a new editing it to 130 and corresponse <i>ACCEPT</i> . <i>CI</i> 127 <i>SC</i> 127.1. Donahue, Curtis <i>Comment Type</i> E There is no editing it to 130 and corresponse <i>ACCEPT</i> . <i>CI</i> 127 <i>SC</i> 127.1. Donahue, Curtis <i>Comment Type</i> E <i>There is no editing it to 130 and corresponse ACCEPT</i> . <i>CI</i> 127 <i>SC</i> 127.1. Donahue, Curtis <i>Comment Type</i> E <i>There is no editing it to 130 and corresponse ACCEPT</i> . <i>CI</i> 127 <i>SC</i> 127.1. Donahue, Curtis <i>Comment Type</i> E <i>There is no editing it to 130 and corresponse ACCEPT</i> . <i>CI</i> 127 <i>SC</i> 127.1. Donahue, Curtis <i>Comment Type</i> E <i>There is no editing it to 130 and corresponse ACCEPT</i> . <i>CI</i> 127 <i>SC</i> 127.1. Donahue, Curtis <i>Comment Type</i> E <i>There is no editing it to 130 and corresponse ACCEPT</i> . <i>CI</i> 127 <i>SC</i> 127.1. Donahue, Curtis <i>Comment Type</i> E <i>There is no editing it to 130 and corresponse ACCEPT</i> . <i>CI</i> 127 <i>SC</i> 127.1. Donahue, Curtis <i>Comment Type</i> E <i>There is no editing it to 130 and corresponse ACCEPT</i> . <i>CI</i> 127 <i>SC</i> 127.1. Donahue, Curtis <i>Comment Type</i> E <i>There is no editing it to 130 and corresponse <i>ACCEPT</i>. <i>CI</i> 127 <i>SC</i> 127.1. Donahue, Curtis <i>Comment Type</i> E <i>There is no editing it to 130 and corresponse <i>ACCEPT</i>. <i>CI</i> 127 <i>SC</i> 127.1. Donahue, Curtis <i>Comment Type</i> E <i>There is no editing it to 130 and corresponse <i>ACCEPT</i>. <i>CI</i> 127 <i>SC</i> 127.1. Donahue, Curtis <i>Comment Type</i> E <i>There is no editing it to 130 and corresponse <i>ACCEPT</i>. <i>CI</i> 127 <i>SC</i> 127.1. Donahue, Curtis <i>Comment Type</i> E <i>There is no editing it to 130 and corresponse <i>ACCEPT</i>. <i>CI</i> 127 <i>SC</i> 127.1.</i></i></i></i></i>	Ciena Donahue, Curtis UNH-I Comment Status A In 125.2.2 and 125.2.3 do not conform to the usual style. The insert the following paragraph at the end of uction for 125.2.2 to: "Insert the following paragraph at the end of SuggestedRemedy 1) Change the instruction to read "Change T Response Status C 2) Change the value in the third row of the S a row above "2.5GBASE-KX PMD", in the Si a row above "2.5GBASE-KX PMD", in the Si a row above "2.5GBASE-KX PMD", in the Si in detail). P58 L 10 # 57 Ciena Comment Status A Response Status C Comment Status A The insert the instruction to read: "Change the instruction to read". Notes not match the changes made to the table (and it should not try in detail). Response Status C Response Status C Clina ACCEPT IN PRINCIPLE. Response Status C Clina Clina Response Status C Clina	Ciena Donahue, Curtis UNH-IOL Comment Status A in 125.2.2 and 125.2.3 do not conform to the usual style. To comment Status A The insert instruction and added rows in Table 125-3 have errors, weren't followed. uction for 125.2.2 to: "Insert the following paragraph at the end of Suggested/Remedy 1) Change the instruction to read "Change Table 125-3 by insertin 12.5GBASE-KX PMD, 5GBASE-KX PMD, 5GBASE-R PCS/Pl as shown, and change the associated notes a and b as shown." Response Status C Suggested/Remedy 1) Change the instruction to read. "Change Table 125-3 by inserting the associated notes a and b as shown." Obes not match the changes made to the table (and it should not try in detail). # [57] Ciena Comment Status A C Response Status C ACCEPT IN PRINCIPLE. Change the instruction to read. "Change the associated notes and b cas shown." Noise not match the changes made to the table (and it should not try in detail). This change is consistant with the last Task Force comment resolit Ciena C "Carnage Table 125-3 by inserting three rows, one each for 2.5GBA Response Status C C Cartage Table 125-3 by inserting three rows, one each for 2.5GBA Response Status C C Ciena Comment Type E Comment Type E Comment Type E Comment Status A There is

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SC 127.1.1 11/10/2016 5:12:56 PM SORT ORDER: Clause, Subclause, page, line

C/ 127		27.1.1		^o 59	L 15	# 279
Donahue, C	Curtis		UN	H-IOL		
Comment T		Е	Comment Statu			
			is language seem X PCS) is very sin			nclude the MDI? ays "(including MDI)".
SuggestedF	Remed	У				
Change	e "(may	include N	/IDI)" to "(including	g MDI)".		
Response			Response Statu	is C		
ACCEP	ΥT.					
C/ 127	SC 1	27.1.2	F	^{>} 60	L 16	# 121
Trowbridge,	Steve		Nol	kia		
		at box is r		rest of the		s the line width at the
left is na SuggestedF	arrowe Re <i>med</i>	at box is r r than tha y	harrower than the t of the rest of the	rest of the boxes in t	stack, or perhap the stack	
left is na SuggestedF Adjust t	arrowe Re <i>med</i>	at box is r r than tha y	harrower than the t of the rest of the	rest of the boxes in t th to aligne	stack, or perhap the stack	s the line width at the
left is n SuggestedF Adjust t stack	arrowe Re <i>med</i> he wid	at box is r r than tha y	narrower than the t of the rest of the box or the line wid	rest of the boxes in t th to aligne	stack, or perhap the stack	s the line width at the
left is na SuggestedF Adjust t stack Response ACCEP C/ 127	arrowe Re <i>med</i> the wid PT. SC 1	at box is r r than tha y	narrower than the t of the rest of the box or the line wid Response Statu	rest of the boxes in t th to aligne s C 260	stack, or perhap the stack	s the line width at the
left is na SuggestedF Adjust t stack Response ACCEP CI 127	arrowe Re <i>med</i> the wid PT. SC 1	at box is r r than tha y th or the t	narrower than the t of the rest of the box or the line wid Response Statu	rest of the boxes in t th to aligno	stack, or perhap the stack e the appearance	s the line width at the
left is na SuggestedF Adjust t stack Response ACCEP Cl 127 Donahue, C Comment T	arrowe Re <i>med</i> the wid PT. SC 1 Curtis	at box is r r than tha y th or the t	narrower than the t of the rest of the box or the line wid Response Statu F UN Comment Statu	rest of the boxes in t th to aligne s C 60 H-IOL	stack, or perhap the stack e the appearance	s the line width at the
left is na SuggestedF Adjust t stack Response ACCEP Cl 127 Donahue, C Comment T	arrowe Remed the wid PT. SC 1 Curtis Type ntence	at box is r r than tha y th or the t 127.1.3.1 E has some	narrower than the t of the rest of the box or the line wid Response Statu F UN Comment Statu	rest of the boxes in t th to aligne s C 60 H-IOL	stack, or perhap the stack e the appearance	s the line width at the
left is na SuggestedF Adjust t stack Response ACCEP Cl 127 Donahue, C Comment T This sel SuggestedF Remove The 2.5	arrowe Remed the wid PT. SC 1 Curtis Type ntence Remed GBAS	at box is r r than tha y th or the t 127.1.3.1 E has som y "." and m	harrower than the t of the rest of the box or the line wid Response Statu F UN Comment Statu e typos. ake "Encoding" lo provides all service	rest of the boxes in t th to aligne s C 60 H-IOL us A owercase.	stack, or perhap the stack e the appearance <i>L</i> 43 Should read " F	s the line width at the

ACCEPT.

C/ 127 S	C 127.2.2	P 62	L 48	# 332	I
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

Cl 127 SC 127.2.2 Page 19 of 76 11/10/2016 5:12:56 PM

C/ 127 SC 127.2. 4 Kim, Yong	P 63 Broadcom	L	# 356	Cl 127 Donahue,	SC 127.2.4.1 Curtis	P 63 UNH-IOL	L 38	# 281
Comment Type TR XGMII is the adopter is compatible with 10 2.5X speed-up. It is present at 2.5G due SuggestedRemedy A bit broad reaching	Comment Status A d interface for 2.5G, and the ba DOBASE-KX (and possibly pro highly desireable to make feat to adoption of XGMII (10G) run	priatary SGMII i ures that were r hing at 1/4 spee	in broad use) running at not present at 1G, but	Comment Subcla "2.5Gl Suggested Chang	Type E ause title is "2.5G b/s". <i>IRemedy</i> ge to "2.5 Gb/s PC "2.5Gb/s" in first s	Comment Status A b/s PCS Internal Interface CS Internal Interface (2.5G sentence of the following p Response Status C	PII)".	
	/Q/ clause need to indicate op t needs to say "if the optional li	·	,	C/ 127	SC 127.2.4.1	<i>Р</i> 63 НРЕ	L 53	# 333
WRT to this comme esponse ACCEPT IN PRINCI [Editor's note: This is	s a Technical but not Required	6 Interim. comment.	efer to the presentation	where specif In add P802. chang	a it is stated that ied. lition in response 3bz/D3.0 the cloc ed from +/-0.01%	Comment Status A s in subclause 127.2.4.1 '2 'The nominal rate of opera to comment i-77 of on the k precision for the XGMII of to +/- 100ppm. While 0.0' nore common when defining	ation is' however initial sponsor ball clock defined in su 1% and 100 ppm a	a time, not a rate, is lot of IEEE bclause 46.3.1.1 was are equivalent I believe
Need help understanding the specific changes needed.] See Kim_3cb_01_0916.pdf for detailed changes. Vote to Accept in Principle approve: 4 oppose: 1 abstain: 2 Approved.				0.01% 100pn 0.01% Msym <i>Response</i>	est that on page 6 .' should be chan n.' and that 'The r .' be changed to bols/s +/- 100ppn	Response Status C	rate of operation is f the single 2.5GP	; 78.125 Msymbols/s +, II symbol is 3.2ns +/-
[Editor's note: file loo	cated at: http://www.ieee802.or	g/3/cb/public/se	p16/index.html]	(the or Sugge 0.01% 100pp 0.01%	est that on page 6 ' should be chan m.' and that 'The	n' instead of '100ppm') 3, line 53 the text ' The no ged to read 'The nominal r nominal rate of operation read ' The nominal rate of	rate of operation is of the single 2.5GI	78.125 Msymbols/s +/ PII symbol is 3.2ns +/-

C/ 127 SC 127.2.4.1 Page 20 of 76 11/10/2016 5:12:56 PM

C/ 127 SC 127.2.4.1 P 64 L 5 # 334	CI 127 SC 127.2.4.2 P 65 L 3 # 371
Law, David HPE	Law, David HPE
Comment Type E Comment Status A Table 127-1 and 127-2 both list 'Data X' as an 'abbreviation' for the permissible encoding 1, 0, 0x00 to 0xFF. The only other uses of 'Data X' I can find are in Table 127–3 'Word Encode mapping' Table 127–4 'Word Decode mapping' where it is used in relation to the XGMII but I don';t think they are related. As an aside, I think an abbreviation is usual a shorter form of a word or phrase, therefore not sure that 'Data X' is an abbreviation of the word 'Data'. SuggestedRemedy Since it seems it is not used, suggest that the 'abbreviation' 'Data X' be removed from Table 127-1 and 127-2.	Comment Type T Comment Status A I believe for correct operation 'data B/Err' in Table 127-3 means that if that lane 1 is Data or Error, so long as all other lanes are Data or Error, the 2.5GPII should either convey the Data value B or the Error encoding. The independence of this from each lane isn't entirely obvious from first reading of the table. SuggestedRemedy Suggest it might be clearer to change 'Data A/Err' to 'Data A or Err', 'Data B/Err' to 'Data B or Err', 'Data C/Err' to 'Data C or Err' and 'Data D/Err' to 'Data D or Err'. Response Response Status C ACCEPT. Accept Accept
Response Response Status C ACCEPT IN PRINCIPLE. Change 'Abbreivation' in right-hand column of Table 127-1 and Table 127-2 to read 'Mnemonic'. In this column, change 'IDLE' to 'Idle'. >>done	Cl 127 SC 127.2.4.2 P 65 L 5 # 218 McClellan, Brett Marvell Comment Type T Comment Status A need to show that wencode_state in the last column is the next value of wencode_state
Grant the editor license to develop text to clarify Table 127-3 XGMII coumns match Table 46-3. Table 127-3 wen_encode_state column should not be a part of XGMII nor 2.5GPII. [Editor's note: please supply text] C/ 127 SC 127.2.4.2 P 65 L 1 # [219] Marvell	SuggestedRemedy change wencode_state in column 5 to wencode_state <n> change wencode_state in the last column to wencode_state<n+1> or do not change wencode_state in column 5 change wencode state in the last column to wencode state next</n+1></n>
Comment Type E Comment Status A in table 127-1 the abbreviation for Normal Interframe is shown as "IDLE", not "Idle" as used in table 127-3 in the 2.5GPII Columns	Response Response Status C ACCEPT.
SuggestedRemedy Change "Idle" to "IDLE" in the 2.5GPII Columns Response Response Status C ACCEPT.	change wencode_state in column 5 to wencode_state (n) and, change wencode_state in the last column to wencode_state (n+1) [Editor note: this relates to David Law's comment. He changing much of the table.]

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C/ 127 SC 127.2.4.2	P 65	L 7	# 372	C/ 127 SC 127.2.4.2	P 65	L 29	# 220
Law, David	HPE	L I	# 512	McClellan, Brett	Marvell	L L J	# 220
	Comment Status A 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> A 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> 127 <i>SC</i> 127.2.4.2 McClellan, Brett	P 65 Marvell	L 29	# 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 35	# 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 C E.			SuggestedRemedy Change to "24-bit".			
[Editor's note: reference	e is 127.2.6.1.2]			Response ACCEPT.	Response Status C		

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C/ 127
SC 127.2.4.2
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C/ 127 SC 127.2.4.4 AcClellan, Brett	P 66 Marvell	L 28	# 222	Cl 127 SC 127.2.4.5 Donahue, Curtis	P 66 UNH-IOL	L 53	# 285
Comment Type E following the notation of Signal ordered set is no	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-t	Comment Status A		
SuggestedRemedy Change Q to Q and				SuggestedRemedy Change to "24-bit".			
Response ACCEPT.	Response Status C			Response ACCEPT.	Response Status C		
C/ 127 SC 127.2.4.4	<i>P</i> 66 UNH-IOL	L 31	# 284	C/ 127 SC 127.2.4.5 McClellan, Brett	P 67 Marvell	L 12	# 223
Donahue, Curtis Comment Type E "2.5GMII" should be "2.5	Comment Status A			Comment Type E in table 127-2 the abbr in table 127-4 in the 2.5	Comment Status A eviation for Normal Interfran GPII Columns	ne is shown as "II	DLE", not "Idle" as used
SuggestedRemedy Change to "2.5GPII".				SuggestedRemedy	' in the 2.5GPII Columns		
Response ACCEPT.	Response Status C			Response ACCEPT.	Response Status C		
C/ 127 SC 127.2.4.4 AcClellan, Brett	P 66 Marvell	L 41	# 216	AUGLI T.			
LPI symbols, though in immediately with seque	Comment Status R symbol may be deleted. Usua pathological error conditions nce ordered-set) some other for a minimum IPG following IPG	(i.e. unterminate symbol may be	ed packet followed				
SuggestedRemedy Consider adding a minir	num 5 octect IPG requireme	nt.					
Response REJECT.	Response Status C						
	this normative because the m tions without this explicit requ		vould be met by				

C/ 127 SC 127.2.4.5

C/ 127 SC 127.2.4.5 P 67 L 16 # 224	C/ 127 SC 127.2.4.5 P 67 L 30 # 226
AcClellan, Brett Marvell	McClellan, Brett Marvell
Comment Type T Comment Status A 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	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
change wdecode_state in column 5 to wdecode_state <n> change wdecode_state in the last column to wdecode_state<n+1> or</n+1></n>	Response Response Status C ACCEPT.
do not change wdecode_state in column 5 change wdecode_state in the last column to wdecode_state_next	C/ 127 SC 127.2.4.5 P 67 L 35 # 227 McClellan, Brett Marvell
Response Response Status C ACCEPT IN PRINCIPLE.	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)	SuggestedRemedy line 35 and line 37 change X in 5th column to IDATA
change wdecode_state in the last column to wdecode_state(n+1)	Response Response Status C ACCEPT.
() are used for state, <> for vectors]	C/ 127 SC 127.2.5.6 P 69 L 39 # 286
C/ 127 SC 127.2.4.5 P 67 L 20 # 225	Donahue, Curtis UNH-IOL
AcClellan, Brett Marvell Comment Type T Comment Status A	Comment Type E Comment Status A "24 bit" should be "24-bit".
Data* condition is not defined, needs a definition SOP is not defined for XGMII, it should be "Start"	SuggestedRemedy Change to "24-bit".
SuggestedRemedy Provide definition or note for Data* and change SOP to Start.	Response Response Status C ACCEPT.
Response Response Status C ACCEPT IN PRINCIPLE.	
note for Data* and change SOP to Start.	

C/ 127 SC 127.2.5.6

CI 127 SC 127.	2.5.6	P 69	L 40	# 246	C/ 127	SC 127.2.5	.7	P 10	L 4	# 357
Baden, Eric		Broadcom Lin	nited		Law, David			HPE		
Comment Type TF	Cor	nment Status A			Comment 7	<i>ур</i> е т	Comme	ent Status A		
Link status (remo be made optional		alling indication that a as such.	re native to XGM	II but not GMII should	arbitrar	y data betwee	n the XGMII	and the PCS.'. Is	this correct since	onveys one octet of there XGMII is the
SuggestedRemedy										the word encode
Change "A sequence ordered_set is used to convey various link status such as local fault 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, S2,				function and the word to octet function is not code-group based, nor is the 2.5GPII 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 interface and rx_bit) that are code-group based. This seems to be further confirmed by the reto subclause 36.2.4.6 ' Checking the validity of received code-groups'.					e PMA service ervice interfaces (tx_ firmed by the referen	
S3 (see 127.2.4.2), and /W0/,	/W1/, /W2/, /W3/ are	the 8B/10B map	ped version." to	Suggestedl		Oncoking			5.
_		when implemented, ar	e mapped to So,		••	-	conveys	one octet of arbit	rary data betweer	the XGMII and the
Response ACCEPT.	Res	oonse Status W			PCS' to	read ' conv	eys one octe	et of arbitrary data	a supplied om the	XGMII.'.
ACCEPT.					Response		Respon	se Status C		
CI 127 SC 127.	2.5.6	P 69	L 41	# 228	ACCEF	РТ.				
VcClellan, Brett		Marvell			C/ 127	SC 127.2.6	.1.2	P 12	L 2	# 358
Comment Type E	Cor	nment Status A			Law, David			HPE	_	
move "/" after the	line break				Comment 7	vpe E	Comme	ent Status A		
SuggestedRemedy						51			bclause defining /	R/.
page 69 line 41 m also page 71 line					Suggestedl	Remedy			-	
Response ACCEPT.	Res	bonse Status C			part 3.'	should be cha	inge to read		Packet delimiter	_of_Packet delimiter part 2 or
See file					Response		Respon	se Status C		
	2.org/3/cb/p	ublic/nov16/Kim_3cb_	01_1116.pdf		ACCEF	PT.				
					C/ 127	SC 127.2.6	.1.2	P 12	L 7	# 359
					Law, David			HPE		
					Comment 7	Type E	Comme	ent Status A		
					Sugges	st that there sh	ould be a re	ference to the su	bclause defining /	Τ/.
					Suggestedl	Remedy				
								Packet delimiter p s specified in 127		change to read '
					Response		Respon	se Status C		
					ACCEF		-			

C/ 127 SC 127.2.6.1.2 Page 25 of 76 11/10/2016 5:12:56 PM

Cl 127 SC 127.2.6.1.2 P 72 IcClellan, Brett Marvell	L 18	# 229	Cl 127 SC 127.2.6.1 Smith, Daniel	I.3 P 74 Seagate	L 14	# 136
Comment Type T Comment Status A /PL_LIMIT/ is a number not a set			Comment Type ER capitalization in name	Comment Status A		
SuggestedRemedy change to PL_LIMIT			SuggestedRemedy should read: PMD_SIC	GNAL.indication(SIGNAL_DE	TECT).	
Response Response Status C ACCEPT.			Response ACCEPT.	Response Status C		
See file http://www.ieee802.org/3/cb/public/nov16/Kim_3cb_	_01_1116.pdf		Cl 127 SC 127.2.6.1 Law, David	I. 3 <i>P</i> 74 HPE	L 19	# 335
E 127 SC 127.2.6.1.3 P 15	L 10	# 360	Comment Type T	Comment Status A		
The definition for the tx_code-group<9:0> variable s the PMA as the parameter of a PMD_UNITDATA.rec correct, isn't actually conveyed to the PMA as the p PMA_UNITDATA.request(tx_code-group<9:0>) prin called by Figure 127–6 'PCS transmit code-group s suggestedRemedy Suggest that 'This vector is conveyed to the PMA a PMD_UNITDATA.request(tx_bit) service primitive.'	equest(tx_bit) serv arameter of the nitive? See definit tate diagram'. s the parameter of	ice primitive. ¹ . Is this ion of PUDR which is f a	conveyed in a primitive 127.3.1.1.1 'Semantics sync_status. Further I process, instead it is d Synchronization proce SuggestedRemedy Suggest that the text '/ status of the link as vie	ss'. The term parameter is e related to a service interface s of the service primitive'. I do don't see sync_status genera erived from code_sync_statu ss) and rx_lpi_active varibles A parameter set by the PCS S eved by the receiver. The val e equation for this parameter	e, for example se on't think this is th ated by the PCS is (which is gener Synchronization p ues of the param	e subclause ne case for Synchronization rated by the PCS process to reflect the reter are defined for
conveyed to the PMA as the parameter of the PMD primitive.'	_UNITDATA.requ	est(tx_bit) service		gram, consisting of the follow		
Response Response Status C			Response ACCEPT.	Response Status C		
Cl 127 SC 127.2.6.1.3 P 72 McClellan, Brett Marvell Comment Type E Comment Status	L 37	# 230	See file http://www.ieee802.org	g/3/cb/public/nov16/Kim_3cb_	_01_1116.pdf	
is the element symbol defined anywhere in 802.3? I SuggestedRemedy add a defnition if needed.	Does it need defir	ittion ?				
Response Response Status C						
REJECT.						

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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27 SC 127.2.6.1.3 P74 L 19 # 336	C/ 127 SC 127.2.6.1.3 P74 L 34 # 338
David HPE	Law, David HPE
nment Type T Comment Status A	Comment Type TR Comment Status A
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.	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>.
Add sync_status to Figure 127-2.	It is confusing to use the same variable names as both the input and output of the 'WORD-
ACCEPT. [Editor's note: comment bubble added in the draft where to do this.]	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
See file http://www.ieee802.org/3/cb/public/nov16/Kim_3cb_01_1116.pdf	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.
27 SC 127.2.6.1.3 P 74 L 24 # 337 David HPE	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-</x>
Image: 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.'.	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.</x>
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.	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.
gestedRemedy	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.	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
ponse Response Status C	and Word-to-Octets state diagram, that:
ACCEPT. [Editor's note: added 'the parameter value' before FAIL:	 [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>
"Where the parameter value 'OK' maps to the Boolean value 'TRUE' and the parameter value 'FAIL' maps to the Boolean value 'FALSE'."]	[4] The assignments in state TX_XGMII be changed to:
See file http://www.ieee802.org/3/cb/public/nov16/Kim_3cb_01_1116.pdf	{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/general required T/technical E/editorial G/general	C/ 127	Page 27 of 76
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	11/10/2016 5:12:56 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:

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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 76 11/10/2016 5:12:56 PM

p_er <= we_tp_er<2> pd<7:0> <= we_tpd<23:16>	C/ 127 SC 127.	2.6.1.3	P 75	L 16	# 339
[Editor's note: done]	Law, David		HPE		
8] The assignments in state TX_2.5GPII_3 be changed to:	Comment Type T		nent Status A	ause 36 2 4 4 'Ri	Inning disparity rules'
p_en <= we_tp_en<3> p_er <= we_tp_er<3>					alid and invalid code-
pd<7:0> <= we_tpd<31:24>	SuggestedRemedy				
[Editor's note: done]	Suggest that 'Run		is described in 36.2	.4.3.' be changed	l to read 'Running
9] The definition for tpd <x><7:0> be changed to read:</x>	disparity is descril				
ve_tpd<31:0>	Response	Respo	nse Status C		
Transmit data output of the WORD ENCODE process.	ACCEPT.				
10] The definition of tp_en <x> be changed to read:</x>	See file http://www.ieee80	2.org/3/cb/pub	lic/nov16/Kim_3cb	_01_1116.pdf	
p_en<3:0>	CI 127 SC 127.	2613	P 76	L 15	# 231
Fransmit data valid output of the WORD ENCODE process.	McClellan, Brett	2.0.1.5	Marvell	215	# 251
11] The definition of tp_er <x> be changed to read:</x>	Comment Type E	Comn	nent Status A		
p_er<3:0>	idle_d definition u	ses akward lar	nguage		
ransmit error output of the WORD ENCODE process.	SuggestedRemedy				
12] Figure 127–2 'Functional block diagram be updated as follows:	change "SUDI(![/D21.5/]	* ![/D2.2/])			
pd<3:0><7:0> be changed to we_tpd<31:0>			pport the EEE cap	ability:	
p_en<3:0> be changed to be we_tp_en<3:0>	SUDI(![/D21.5/] *	![/D2.2/] * ![/D6	5.5/] * ![/D26.4/])"		
p_er<3:0> be changed to be we_tp_er<3:0>			en EEE is not suppo 6.5/] * ![/D26.4/]) w		orted"
13] 127.2.4.3 'Word-to-Octets' is changed to read:	Response	 Respo	nse Status C		
· · · · · · · · · · · · · · · · · · ·	ACCEPT.	100000			
The Word-to-Octets process takes the output of the Word Encoder (we_tp_en<3:0>, ve_tp_er<3:0>, we_tpd<31:0>) and presents it one symbol at a time (tp_en, tp_er, pd<7:0>) to the PCS transmit process. We_tpd<7:0> is presented first and	See file	0 are/0/ab/ab		04 4440 46	
ve_tpd<31:24> is presented last. The Word-to-Octets process shall be synchronized to the PCS transmit process such that ve_tpd<7:0> and we_tpd<23:16> are presented to the PCS transmit process which will esult in the corresponding ordered set to be output to the PMA when the variable tx_even		2.org/3/cb/pub	lic/nov16/Kim_3cb	_01_1116.pdf	
s 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.					

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/ 127 SC 127.2.6.1.4 P 17 L 4 # 361 Law, David 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 change "Signal_detectCHANGE" to "signal_detectCHANGE" Response Response Status C ACCEPT.
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	See file http://www.ieee802.org/3/cb/public/nov16/Kim_3cb_01_1116.pdf
tx_disparity per the running disparity rules outlined in 36.2.4.4.'.	CI 127 SC 127.2.6.1.4 P77 L 45 # 287
Response Response Status C	Donahue, Curtis UNH-IOL
ACCEPT.	Comment Type E Comment Status A
C/ 127 SC 127.2.6.1.4 P 77 L 6 # 232 McClellan. Brett Marvell	"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
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	the same here. SuggestedRemedy Change "WALIGN()" to "WALIGN(x)". Change instances of "X" to "x".
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.	the same here. SuggestedRemedy
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	the same here. SuggestedRemedy Change "WALIGN()" to "WALIGN(x)". Change instances of "X" to "x".
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	the same here. SuggestedRemedy Change "WALIGN()" to "WALIGN(x)". Change instances of "X" to "x". Response Response Status C
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 "NEXTSEQ()" to "check_SEQ" similarly change "WALIGN()" to "WALIGN"	the same here. SuggestedRemedy Change "WALIGN()" to "WALIGN(x)". Change instances of "X" to "x". Response Response Status C ACCEPT IN PRINCIPLE.
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 "NEXTSEQ()" to "check_SEQ" similarly change "WALIGN()" to "WALIGN" Response Response Status C ACCEPT IN PRINCIPLE. NEXTSEQ: reject the name change	the same here. SuggestedRemedy Change "WALIGN()" to "WALIGN(x)". Change instances of "X" to "x". Response Response Status C ACCEPT IN PRINCIPLE. There is no parameter when WALIGN is called, so we'll remove the parentheses. CI 127 SC 127.2.6.1.6 P78 L 47 # 137
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 "NEXTSEQ()" to "check_SEQ" similarly change "WALIGN()" to "WALIGN" Response Response Status C ACCEPT IN PRINCIPLE.	the same here. SuggestedRemedy Change "WALIGN()" to "WALIGN(x)". Change instances of "X" to "x". Response Response Status C ACCEPT IN PRINCIPLE. There is no parameter when WALIGN is called, so we'll remove the parentheses. Cl 127 SC 127.2.6.1.6 P78 L 47 # 137 Smith, Daniel Seagate Comment Type ER Comment Status A

C/ 127 SC 127.2.6.1.6

C/ 127	SC 127.2.6.1.7	P 19	L 31	# 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

CI 127	SC 127.2.6.1.7	P 79	L 42	# 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 ± 100ppm.

See file http://www.ieee802.org/3/cb/public/nov16/Kim_3cb_01_1116.pdf

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127 SC 127.2.6.2.1 P 80 L 25 # 341	C/ 127 SC 127.2.6.2.1 P81 L 43 # 343			
aw, David HPE	Law, David HPE			
omment Type T Comment Status A	Comment Type T Comment Status A			
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	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.			
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	SuggestedRemedy			
Encode and Word-to-Octets' gives only a higher level description.	See comment.			
ggestedRemedy	Response Response Status C			
Suggest that instead of duplicating at a high level, a cross reference be provided to the earlier detailed text, and that subclause 127.2.6.2.1 'Word Encode and Word-to-Octets' be	ACCEPT.			
changed to read:	See file http://www.ieee802.org/3/cb/public/nov16/Kim_3cb_01_1116.pdf			
The Word Encode function (see 127.2.4.3) and Word-to-Octets function (see 127.2.4.3)	C/ 127 SC 127.2.6.2.2 P81 L2 # 374			
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.	Law, David HPE			
sponse Response Status C	Comment Type T Comment Status A			
ACCEPT IN PRINCIPLE.	Remove spurious logical OR at end of equation leading to entry to RESET state in Figure 127-4.			
Add the following cross references in 127.2.6.2.1:	SuggestedRemedy			
Word Encode function (see 127.2.4.3)	Change ' mr main reset=TRUE +' to read ' mr main reset=TRUE'.			
Word-to-Octets function (see 127.2.4.3)	Response Response Status C			
See file	ACCEPT.			
http://www.ieee802.org/3/cb/public/nov16/Kim_3cb_01_1116.pdf				
127 SC 127.2.6.2.1 <i>P</i> 81 <i>L</i> 11 <i>#</i> 342	C/ 127 SC 127.2.6.2.2 P 82 L 4 # 345 Law. David HPE			
v, David HPE				
mment Type T Comment Status A	Comment Type T Comment Status A			
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	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.			
Encode and Word-to-Octets state diagram', the WORD-TO-OCTET function in Figure 127-	SuggestedRemedy			
2, tx_even cross the 2.5GPII and therfore appears to be part of the interface.	See comment.			
ggestedRemedy	Response Response Status C			
Add tx even to Figure 127-2.	ACCEPT.			
sponse Response Status C	See file http://www.ieee802.org/3/cb/public/pov16/Kim_3cb_01_1116.pdf			
sponse Response Status C ACCEPT IN PRINCIPLE.	See file http://www.ieee802.org/3/cb/public/nov16/Kim_3cb_01_1116.pdf			
esponse Response Status C				
ACCEPT IN PRINCIPLE.				

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 76 11/10/2016 5:12:56 PM

C/ 127 SC 127.2.6.2.2 P 83 L 26 # [3] Law. David HPE	C/ 127 SC 127.2.6.2.3 P 22 L 10 # 364
Comment Type E Comment Status A	Comment Type T Comment Status A
The 'else' in the states should be uppercase, see the last entry in IEEE Std 802 Table 21–1. Suggest that the 'If' and 'then' should also be UPPERCASE. See I 802.3-215 Figure 48–7 for example of this formatting.	-2015 The exit condition from the XMIT_DATA state to the XMIT_SEQUENCE state in Figure
Suggest similar formatting for state diagram function definition pseudo code the same construct on page 77, line 28.	
SuggestedRemedy See comment.	* TX_OSETindicate' becomes true the condition 'tp_en=0 * TX_OSET.indicate' will also become true, meaning that the transition to both XMIT_SEQUENCE and XMIT_DATA are valid which isn't correct.
Response Response Status C ACCEPT. See file	Similarly since 'assert_lpidle = tp_en=0 * tp_er=1 * (tpd<7:0>=0x01)', when the condition 'assert_lpidle * TX_OSET.indicate' becomes true the condition 'tp_en=0 * TX_OSET.indicate' will also become true, meaning that the transition to both XMIT_LPIDLE and XMIT_DATA are valid which isn't correct.
http://www.ieee802.org/3/cb/public/nov16/Kim_3cb_01_1116.pdf	SuggestedRemedy
ン 127 SC 127.2.6.2.3 P 22 L 8 # [aw, David HPE	Suggest that the condition 'tp_en=0 * TX_OSET.indicate' be changed to read 'lassert_lpidle * !assert_seq * tp_en=0 * TX_OSET.indicate'.
Comment Type T Comment Status A In Figure 127–5 'PCS transmit ordered set state diagram', on the transition from XMIT_DATA to XMIT_SEQUENCE suggest that "TX_OSETindicate" should rea "TX_OSET.indicate".	Response Response Status C ACCEPT.
_	Law. David HPE
uggestedRemedy See comment.	Comment Type E Comment Status A
Response Response Status C ACCEPT.	Two different fonts are being used in Figure 127–5 'PCS transmit ordered set state diagram'. This can be most clearly seen in the transition from XMIT_DATA to START_OF_PACKET where the condition is "tp_en=1 * tp_er=0 * TX_OSET.indicate". There are two different fonts are used for the "=" symbol. Another example is the transitio from CARRIER_EXTEND to START_ERROR where the condition is "tp_en=1 * tp_er=1 * TX_OSET.indicate".
	SuggestedRemedy
	Please use one font consistently.

C/ 127 SC 127.2.6.2.3

C/ 127 SC Law, David	127.2.6.2.3	<i>Р</i> 22 НРЕ	L 5 1	# 366	<i>Cl</i> 127 Law, David	SC 12	.2.6.2.3	<i>Р</i> 23 НРЕ	L 40	# 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	
SuggestedRemedy See comment.					SuggestedRemedy						
					See comment.						
					Response		Re	sponse Status C			
Response Response Status C ACCEPT.				ACCEPT.							
					C/ 127	SC 12	.2.6.2.3	P 24	L 14	# 370	
	127.2.6.2.3	P 23	L 9	# 367	Law, David			HPE			
Law, David		HPE			Comment 7	ype T	Co	omment Status A			
ordered set. It would seem that when tx_o_set is /V, /S/, /T/ or /R/ it needs to be encoded in to a code-group as defined in rows 6 to 9 of Table 127-5 'Defined ordered sets'. SuggestedRemedy Suggest that in the SPECIAL_GO state, line ' tx_code-group <= tx_o_set' is replaced with:				 therefore I read '![/COMMA/]' to mean nonmembership of the set of special code-groups which include a comma, just as the second term means nonmembership of the set of invalid data or special code-groups. SuggestedRemedy If both terms mean nonmembership of the set suggest a consistent notation be used here, and elsewhere. 							
IF tx_o_set= /R/ THEN (tx_code-group <= /K23.7/) ELSE IF tx_o_set= /S/ THEN (tx_code-group <= /K27.7/) ELSE											
		-group <= /K27.7/) -group <= /K29.7/)				ewnere.	-				
	/V/ THEN (tx_code	-group <= /K30.7/)			Response ACCEF	T.	Re	sponse Status C			
Response ACCEPT.	Respo	nse Status C									
C/ 127 SC Law, David	127.2.6.2.3	<i>P</i> 23 HPE	L 26	# 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

C/ 127 SC 127.2.6.2.3 Page 34 of 76 11/10/2016 5:12:56 PM

C/ 127 SC 127.2.6.2.3 P82 L9 # 3	C/ 127 SC 127.2.6.2.3 P85 L 5 # 347					
C/ 127 SC 127.2.6.2.3 P 82 L 9 # 3 Laubach, Mark Broadcom Limited	CI 127 SC 127.2.6.2.3 P 85 L 5 # 347 Law, David HPE					
Comment Type E Comment Status A Line 9: the "D" goto box is colliding with the text below it. Provide more separation. Line 10: There is a dashed box colliding with the text "assert_lpidle * TX_OSET.indicate". Can you fix so that the lines do not overwrite the text? Also, should be consistent with the "D" transition next to it, both have dashed boxes or both do not.	Comment Type T Comment Status A It is states that 'For EEE capability the relationship between sync_status and code_sync_status is given by Figure 127–8c; otherwise sync_status is identical to code_sync_status.'. I don't see the relationship between sync_status and code_sync_status given in Figure 127–8c, in fact I don't see sync_status used in Figure 127–8c, only code sync status is used.					
Line 53: "NOTE—Transitions B and C are only required for the EEE capability." is colliding with the figure caption. Need more visual separation. Line 5: align bottom of arrows, move right most arrow a little more right. Line 15: arrow is entering state box, should just be touching.	SuggestedRemedy Suggest that 'For EEE capability the relationship between sync_status and code_sync_status is given by Figure 127–8c; otherwise sync_status is identical to code_sync_status.' be changed to read 'For EEE capability the relationship between sync_status and code_sync_status is given by the definition of the sync_status variable in 127.2.6.1.3; otherwise sync_status is identical to code_sync_status.					
Line 42: why is there a dashed box around the "B" entry state machine, but not a similar box around the "D" entry state machine? Make box use consistent.	Response Response Status C ACCEPT.					
SuggestedRemedy As per comment.	See file http://www.ieee802.org/3/cb/public/nov16/Kim_3cb_01_1116.pdf					
Response Response Status C ACCEPT IN PRINCIPLE.	CI 127 SC 127.2.6.2.4 P 86 L 5 # 348 Law, David HPE HPE					
We accept all but with the following additions: Line 10: The "D" transition is mandatory, so it should noit Have a dashed box around it.	Comment Type T Comment Status A In Figure 127–8a 'PCS receive state diagram, part a' suggest that 'rx lpi active <= FALSE;' should read 'rx_lpi_active <= FALSE' in the LINK_FAILED state.					
Line 42 comment is best resolved with a change to the footnote: NOTE— A transition inside a dashed box is only required for the EEE capability.	SuggestedRemedy See comment.					
C/ 127 SC 127.2.6.2.3 P 85 L 2 # 135 Smith, Daniel Seagate	Response Response Status C ACCEPT.					
Comment Type ER Comment Status A effecting hysteresis	See file http://www.ieee802.org/3/cb/public/nov16/Kim_3cb_01_1116.pdf					
SuggestedRemedy s/b: affecting hysteresis (affect is a verb)						
Response Response Status C ACCEPT IN PRINCIPLE.						
After examination, we decided to remove the statement about hystersis. It should read:						
sub-states, to move between the						

SYNC_ACQUIRED_1 and LOSS_OF_SYNC states.

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

C/ 127 SC 127.2.6.2.4 Page 35 of 76 11/10/2016 5:12:56 PM

C/ 127 SC 127.2.6. _aw, David	2.4 <i>P</i> 86 HPE	L 5	# 349	Cl 127 SC 127 Law, David	.2.6.2.4 <i>P</i> 86 HPE	L 29	# 352		
	Comment Status A S receive state diagram, part a purious ';' at the end of the first , be deleted.			'rp_dv <= 0' in the	Comment Status A PCS receive state diagram, part DLE_D state.	t a' suggest that 'r	o-dv <= 0;' should read		
SuggestedRemedy See comment.				SuggestedRemedy See comment.					
Response ACCEPT.	Response Status C			Response ACCEPT.	Response Status C				
See file	g/3/cb/public/nov16/Kim_3cb	01 1116 pdf		See file http://www.ieee80	02.org/3/cb/public/nov16/Kim_3cl	b_01_1116.pdf			
C/ 127 SC 127.2.6.		L 11	# 350	C/ 127 SC 127 Law, David	.2.6.2.4 <i>P</i> 86 HPE	L 47	# 353		
	Comment Status A S receive state diagram, part a purious ';' at the end of the firs			found on Figure 1 CARRIER_DETE	Comment Status A 'PCS receive state diagram, par 27–8b 'PCS receive state diagra CT states.				
SuggestedRemedy See comment. Response	Response Status C			SuggestedRemedy 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 state.' be added to Figure 127–8a 'PCS receive state diagram, part a'. The existing note will need to be designated NOTE 1.					
ACCEPT. See file		04 4440 adf		Response ACCEPT.	Response Status C				
C/ 127 SC 127.2.6. .aw, David	g/3/cb/public/nov16/Kim_3cb_ 2.4 P 86 HPE	_01_1118.pdf L 19	# 351	See file http://www.ieee80	02.org/3/cb/public/nov16/Kim_3cl	b_01_1116.pdf			
Comment Type T In Figure 127–8a 'PCS 'rp_dv <= 0' in the RX	Comment Status A S receive state diagram, part a K state.	a' suggest that 'rj	o-dv <= 0;' should read						
SuggestedRemedy See comment.									
Response ACCEPT.	Response Status C								
See file http://www.ieee802.or	g/3/cb/public/nov16/Kim_3cb	_01_1116.pdf							
EVPE: TR/technical requir	red ER/editorial required CR	apperal required	T/technical E/editorial C	aeneral	CL -	107	Page 36 of 76		

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 127.2.6.2.4 Page 36 of 76 11/10/2016 5:12:56 PM

Laubach, Mark	P 87 Broadcom Limit	L 44 ed	# 4	<i>Cl</i> 127 SC 127.6 Hidaka, Yasuo	Р 94 Fujitsu Lab o	L 43 f America	# 172
Comment Type E Comm Un-needed arrow head, remove For consideration: some of the graphic box. Suggestion: make Note this could be a FM -> PDF	state boxes look like un e the corners look bette			SuggestedRemedy	Comment Status A onnect characteristics. Clause e to 71.8 with a reference to 7		nent specifications.
SuggestedRemedy As per comment.				Response ACCEPT.	Response Status C		
Response Respons	onse Status C			C/ 127 SC 127.7 Anslow, Pete	<i>P</i> 95 Ciena	L 39	# 59
Cl 127 SC 127.2.6.2.4 Laubach, Mark Comment Type E Comm Many of the line "corners" are n better. Also, seeing lines runnin to neaten things up.		n this figure that		SuggestedRemedy Change "2016" to "20 128A.4.2.2, 128B.4.2	Comment Status A for P802.3cb is unknown. 01x" in two places each in 127 .2, 128D.3.2.2, 130A.4.2.2, 13 by changing the variable "PIC Response Status C	30B.4.2.2.	
SuggestedRemedy				ACCEPT.	Response Status C		
SuggestedRemedy As per comment.	onse Status C			•		<i>L</i> 12 mited	# 247
SuggestedRemedy As per comment. Response Response ACCEPT. Cl 127 SC 127.3.4	onse Status C <i>P</i> 94 Fujitsu Lab of A	L 18 merica	# [171	ACCEPT. C/ 127 SC 127.7.4 Baden, Eric Comment Type TR	P 96 Broadcom Li <i>Comment Status</i> D 7.2.5.6 on link status signallin	mited	
SuggestedRemedy As per comment. Response Responder ACCEPT. Cl 127 SC 127.3.4 Hidaka, Yasuo Comment Type T Comm "Random jitter test patterms" are	P 94 Fujitsu Lab of A <i>ment Status</i> A e not specified in Anne.	merica x 127A or Anne	ex 36A which is	ACCEPT. Cl 127 SC 127.7.4 Baden, Eric Comment Type TR If my comment on 12 PICS entry needs to SuggestedRemedy	P 96 Broadcom Li <i>Comment Status</i> D 7.2.5.6 on link status signallin	mited g to be made op	tional is accepted,
SuggestedRemedy As per comment. Response Responder ACCEPT. Cl 127 SC 127.3.4 Hidaka, Yasuo Comment Type T Comm	P 94 Fujitsu Lab of A ment Status A e not specified in Anne bugh Annex 36A specif	merica x 127A or Anne ïes "Jitter test j	ex 36A which is	ACCEPT. <i>Cl</i> 127 SC 127.7.4 Baden, Eric <i>Comment Type</i> TR If my comment on 12 PICS entry needs to <i>SuggestedRemedy</i> Add a line for LNKS;	P 96 Broadcom Li <i>Comment Status</i> D 7.2.5.6 on link status signallin be added	mited g to be made op	tional is accepted,

C/ 127 SC 127.7.4

C/ 127 SC 127.7. Law, David	5.4 <i>P</i> 97 HPE	L 48	# 354	C/ 127A SC 127A D'Ambrosia, John	<i>P</i> 157 Futurewei, Sul	L 6 bsidiary	# 116	
	Comment Status A est that ' of tx_code_group' sho	ould read ' of t	x_code-group' .		Comment Status A to sentences with a pointer ader.	to Annex36A.	This does not help with	
SuggestedRemedy See comment.				SuggestedRemedy				
Response ACCEPT.	Response Status C			patterns described in Ann	ne nominal bit rate is 2.5 tir			
See file http://www.ieee802.	org/3/cb/public/nov16/Kim_3cb_	01_1116.pdf		Response ACCEPT IN PRINCIPLE.	Response Status C			
C/ 127A SC 127A	C/ 127A SC 127A P 157 L 6 #	# 253	Delete Annex 127A					
Healey, Adam	Broadcom Ltd			Replace sentence on pag	e 94 line 18 [.]			
Comment Type TR	Comment Status A			"Random jitter test patterns for 2.5GBASE-X are specified in Annex 127A."				
defines the test patt appear to cite and A purpose.	E-X PMD is the one defined by C ern to be used for each paramet annex 36A test patterns. Therefo	er. Further, Clau	use 128 does not		n Annex 36A may be used and any references to the			
SuggestedRemedy Remove the Annex.				Then remove Annex 127A	λ.			
Response ACCEPT.	Response Status C			Cl 127B SC Larry, McMillan	P 158 Western Digita	L 38 al	# 111	
			· · · · · · · · · -	Comment Status A will interpret each /Q/ order lar	red_set as four /	/I/ ordered set." "set"		
				SuggestedRemedy Change to read: "1000BA sets." i.e. change "set" to	SEX PCS will interpret eac "sets"	h /Q/ ordered_s	et as four /l/ ordered	
				Response ACCEPT.	Response Status C			

C/ **127B** SC

C/ 127B SC	P 158	L 43	# 112	C/ 127B SC 127B	P 158	L 6	# 254
Larry, McMillan	Western Digita	1		Healey, Adam	Broadcom Ltd.		
Comment Type E	Comment Status A			Comment Type T	Comment Status R		
"carrier" and "error" sh	ect false carrier, but these will ould be plural, not singular	be converted to	receive error",	scope of IEEE Std 8	S/PMA operating at 2.5 times its s 302.3. As a result, it is unclear wh is non-standard application.		
SuggestedRemedy					is non-standard application.		
	detect false carriers, but these "carriers" and "error" to "errors		ed to receive errors".	SuggestedRemedy Remove the Annex			
Response	Response Status C			Response	Response Status C		
ACCEPT.				REJECT.			
C/ 127B SC Larry, McMillan	P 158 Western Digita	L 45	# 113	This is informative a 802.3 standard com	and serves the installed base of 2 apliant ports.	.5G SGMII bas	ed ports operating with
Comment Type E	Comment Status A			CI 127B SC 127B	P 158	L 30	# 20
	compliant 1000BASE-X PCS t	ransmit process	s to truncated the first	Hajduczenia, Marek	Charter Comm	unicatio	
byte of preamble" is gr	rammatically incorrect			Comment Type E	Comment Status R		
	permissible for a compliant 100			The use of keyword Shall, should, may,	s such us "will" is clearly delineat and can	ed in the Style	Manual, see 10.2.2
before "preamble"	of a preamble" i.e. change "true	ncated" to "trun	cate" and add an "a"	SuggestedRemedy			
Response ACCEPT.	Response Status C		// [000]	all of them with stat is followed clearly. In this particualr loc	se of keywords such as MUST W ements in Present Simple tense a ation, change "at the end of pack	apart from usag et will be correc	ges where Style Manua
CI 127B SC	<i>P</i> 158 UNH-IOL	L 46	# 288		cket are correctly converted as idl	es"	
Donahue, Curtis				Response	Response Status C		
Comment Type E	Comment Status A			REJECT.			
"2.5Gb/s" SuggestedRemedy Change to "2.5 Gb/s"				802.3-2015 uses th given to consider sp	e word "will" that conflicts with the becific use of "will".	e style guide. N	ot enough information
Two instances:							
Page 158, Line 46 Page 158, Line 49 Page 159, Line 6							
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/ 127B SC 127B Page 39 of 76 11/10/2016 5:12:56 PM

C/ 128 SC 7.1.6 McDermott, Thomas	P 109 Fujitsu	L 41	# 1	C/ 128 SC 128.2 Donahue, Curtis	<i>P</i> 99 UNH-IOL	L 46	# 290
retun loss in line 41, a SuggestedRemedy	Comment Status A common mode output return le ind the titel of figure 128-5 on p	bage 110.		Comment Type T "64B/66B". Should SuggestedRemedy Change to "8B/10B	Comment Status A "t this be "8B/10B" for BASE-X?		
	change 'differential mode' to 'd ange 'differenital mode' to 'com			Response	Response Status C		
Response ACCEPT.	Response Status W			ACCEPT. [Editors note: same	e as #114]		
C/ 128 SC 128.1 Healey, Adam	P 99 Broadcom Ltd	L 9	# 248	C/ 128 SC 128.2 Bains, Amrik	P 99 Cisco Systema	L 46 s	# 114
SuggestedRemedy	Comment Status A Aternal cross-reference since it -reference to Clause 45 and ch Response Status C			"The PMD Service blocks between the PMA and PMD enti SuggestedRemedy	ties."	of encoded and	scrambled 64B/66B
ACCEPT.	show as green until the chang	e markings are	removed. Then it will	The PMD Service I PMA and PMD enti <i>Response</i> ACCEPT.	nterface supports the exchange c ties. Response Status W	of encoded 8B/1	0B blocks between th
C/ 128 SC 128.2 Donahue, Curtis	P 99 UNH-IOL Comment Status A	L 43	# 289	C/ 128 SC 128.2 Donahue, Curtis	.4.3 P 101 UNH-IOL	L 42	# 291
There seems to be an	inconsistantcy between "2.5G e draft I only saw "2.5GBASE-	BASE-X PMD" KX PMD". Sho	and "2.5GBASE-KX Ild be consistant		Comment Status A Y". Should be "2.5GBASE-KX PI	ΗY".	
SuggestedRemedy				SuggestedRemedy Change to "2.5GBA	ASE-KX PHY"		
Change all instances of PMD" in the following	of "2.5GBASE-X PMD" to "2.50 places.	GBASE-KX PM	D". I see "2.5GBASE-X	Response	Response Status C		
Page 99, Line 43 Page 100, Line 24 Page 157, Line 8				ACCEPT. [Editor's note: same	e as #115]		
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/ 128 SC 128.2.4.3 Page 40 of 76 11/10/2016 5:12:56 PM

Comment Type T Comment Status A Table 125-2 in clause 125.1.4, page 57 specifies clause 73 AN is optional for 2.5GBASE- KX, but here it is written as the PCS shall support the AN. SuggestedRemedy Change "shall support" with "optionally support", or change clause 73 AN in Table 125-2 from "O" to "M". Response Response Status C ACCEPT IN PRINCIPLE. Change "shall support" with "may optionally support". CI 128 SC 128.6.10 P 105 L 26 Muto-negotiation". Should be "Auto-Negotiation". SuggestedRemedy Change to "Auto-negotiation". Response Response Status C ACCEPT.	C/ 128 SC 128.3 P 102 L 20 # 173 Hidaka, Yasuo Fujitsu Lab of America	C/ 128 SC 128.7.1 P 106 L 28 # 175 Hidaka, Yasuo Fujitsu Lab of America Fu
C/ 128 SC 128.6.10 P 105 L 26 # 292 130.7.1, P140, L28, L31 Donahue, Curtis UNH-IOL 130.7.1.8, P144, L42 130.7.1.9, P144, L48, L49 Comment Type E Comment Status A 130.7.2.1, P147, L22 "Auto-negotiation". Should be "Auto-Negotiation" (capital "N"). 130.10.4.4, P152, L47 130.10.4.4, P152, L47 SuggestedRemedy 128A.3.1, P164, L26 128A.3.1, 6, P167, L1, L2 Change to "Auto-Negotiation". 128A.3.1, P171, L25 128A.3.3, P171, L25 Response Response Status C 130A.3.1, P206, L26 ACCEPT. 130A.3.1, P206, L26 130A.3.3, P213, L28	Comment Type T Comment Status A Table 125-2 in clause 125.1.4, page 57 specifies clause 73 AN is optional for 2.5GBASE-KX, but here it is written as the PCS shall support the AN. SuggestedRemedy Change "shall support" with "optionally support", or change clause 73 AN in Table 125-2 from "O" to "M". Response Response Status C ACCEPT IN PRINCIPLE.	Comment Type TR Comment Status A "Duty Cycle Distortion (DCD)" is not an adequate term to represent a type of jitter, because it is not clear whether the DCD is on the signal itself or on the clock that genarets the signal. Use of this term is now discouraged. We should call it Even-Odd Jitter that is defined in 92.8.3.8.1. SuggestedRemedy Change "Duty Cycle Distortion" with "Even-Odd Jitter" from the entire document. It is used in the following locations: 128.7.1, P106, L28, L30 128.7.1.8, P110, L40
[Editor action: do global search of document and make the same change.] 130B.2.1, P222, L17, L19	Cl 128 SC 128.6.10 P 105 L 26 # 292 Donahue, Curtis UNH-IOL Comment Type E Comment Status A "Auto-negotiation". Should be "Auto-Negotiation" (capital "N"). SuggestedRemedy Change to "Auto-Negotiation". Response Response Status C	128.7.2.1, P112, L22 130.7.1, P140, L28, L31 130.7.1.8, P144, L42 130.7.1.9, P144, L48, L49 130.7.2.1, P147, L22 130.10.4.4, P152, L47 128A.3.1, P164, L26 128A.3.1.6, P167, L1, L2 128B.2.1, P180, L19, L21 130A.3.1, P206, L26 130A.3.1.6, P209, L18, L19 130A.3.3, P213, L28

ACCEPT IN PRINCIPLE.

Add note to end of 128.7.1.9 and 130.7.1.9 :

NOTE—Duty Cyle Distortion is also referred to as Even-odd jitter (see 92.8.3.8.1).

C/ 128 SC 128.7.1

C/ 128 SC 128.7.1.2 P 107 L 34, 3 # 127 Smith, Daniel Seagate
Comment Type ER Comment Status A ReturnLoss is not consistant with other usage.
SuggestedRemedy change to: Return_Loss
Response Response Status W ACCEPT.
Cl 128 SC 128.7.1.4 P 107 L 50 # 138 Smith, Daniel Seagate
Comment Type TR Comment Status A change to be a "maximum"
SuggestedRemedy should read: shall be less than or equal to 1200 mV.
Response Response Status C ACCEPT IN PRINCIPLE.
Double-documentation. Use table values instead.
Change text to: For a 1010 pattern, the Differential peak-to-peak output voltage is defined in Table 128-4.
C/ 128 SC 128.7.1.4 P 107 L 54 # 203
Lusted, Kent Intel
Comment Type TR Comment Status A
The minimum peak-to-peak transmitter amplitude is not specified in the specification. It is
inferred to be >720mV in the "EEE capability" paragraph on page 108, linke 19. However, it is this reader's interpretation of that EEE paragraph that the >720 requirement only applies to PHYs that support the optional EEE.
SuggestedRemedy
Sufficiently define the minimum peak-to-peak amplitude for the transmitter.
Response Response Status W ACCEPT IN PRINCIPLE.
In Table 128-4 and Table 130-4 add a new row for Differential peak-to-peak output voltage (min) as 800 mV.
I

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 C/
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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
 11/10/2016 5:12:56 PM

 SORT ORDER: Clause, Subclause, page, line
 SC
 11/10/2016 5:12:56 PM

128 SC 128.7.1.4 P 108 L 1 mith, Daniel Seagate	t 139 C/ 128 SC 128.7 Smith, Daniel	.1.4 <i>P</i> 108 <i>L</i> 19 # 140 Seagate
omment Type TR Comment Status A change to be a "maximum"	Comment Type TR change to be a "ma	Comment Status A aximum"
uggestedRemedy should read: shall be less than or equal to 30 mV peak-to-peak,	<i>SuggestedRemedy</i> should read: shall be less than o	or equal to 30 mV within
ACCEPT. Response Status C	Response ACCEPT IN PRINC	Response Status C CIPLE.
Double-documentation. Use table values instead.	Double-documenta	tion. Use table values instead.
Change text to: The Differential peak to peak output voltage when TX is disabled is defined		, the transmitter's differential peak-to-peak output voltage is defin 500 ns of tx_mode being set to QUIET and remain so while tx_m
128 SC 128.7.1.4 P 108 L 6 onahue, Curtis UNH-IOL	t 294 set to QUIET.	
omment Type E Comment Status A In Figure 128-3, it says "SL - SLn <n>".</n>	<i>Cl</i> 128 SC 128.7 Smith, Daniel	.1.5 <i>P</i> 108 <i>L</i> 31 , 3 # 128 Seagate
Change to "SL- SL <n>". esponse Response Status C ACCEPT.</n>	Comment Type ER ReturnLoss is not of SuggestedRemedy change to: Return_ Response	consistant with other usage.
	ACCEPT.	
daka, YasuoFujitsu Lab of Americaomment TypeTComment StatusA	C/ 128 SC 128.7 Hidaka, Yasuo	.1.5 <i>P</i> 109 <i>L</i> 21 # <u>179</u> Fujitsu Lab of America
Here, it is said that the common-mode voltage shall be between -0.2 and 1. Table 128-4 specifies it between 0 and 1.9V.	V, whereas Comment Type E	Comment Status A
uggestedRemedy Change "-0.2" with "0".	Equation 128-3 spe return loss from 10	ecifies the return loss from 100MHz, whereas Figure 128-4 specif MHz.
ů –	SuggestedRemedy	
Or, make a correction to the table.	0 0	B-4 frequency to start from 100MHz.
		Response Status C
esponse Response Status C ACCEPT IN PRINCIPLE.	Response ACCEPT.	

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 C/
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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
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 SORT ORDER: Clause, Subclause, page, line
 SC
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C/ 128 SC 128.7.1.6 P 109 L 42 # 295 Donahue, Curtis UNH-IOL UNH-IOL <th>C/ 128 SC 128.7.1.7 P 110 L 28, 3 # 150 Smith, Daniel Seagate</th>	C/ 128 SC 128.7.1.7 P 110 L 28, 3 # 150 Smith, Daniel Seagate
Comment Type E Comment Status A "The minimum differential return loss is shown in Figure 128-5". Should be "The minimum	Comment Type TR Comment Status A Rise/fall time ranges are ambiguous.
common-mode output return loss is shown in Figure 128-5". Also the title to Figure 128-5 is wrong.	SuggestedRemedy
SuggestedRemedy	change wording to: transition time shall be from 30 ps to 100 ps, as measured at
 Change "The minimum differential return loss is shown in Figure 128-5" to "The minimum common-mode output return loss is shown in Figure 128-5". 	Response Response Status W ACCEPT IN PRINCIPLE.
2) Change the title of Figure 128-5 to "Trasnmitter common-mode return loss". Response Response Status C	Replace both sentences with:
ACCEPT IN PRINCIPLE. 1) Change "The minimum differential return loss is shown in Figure 128-5" to "The minimum common-mode output return loss is shown in Figure 128-5".	The transition time shall as shown in Table 128-4 using the high-frequency test pattern of 128B.1.
2) Change the title of Figure 128-5 to "Transmitter common-mode return loss".	[Editor's note: the reference to test pattern may change. 128B.1 is incorrect.]
[Editor's note: same as comment #1, but without the '-' before "mode". The hyphen will be added for consistency.]	C/ 128 SC 128.7.1.8 P 110 L 38 # 270 Healey, Adam Broadcom Ltd. Broadcom Ltd.
C/ 128 SC 128.7.1.7 P 110 L 29 # 180 Hidaka, Yasuo Fujitsu Lab of America Fujitsu Lab of America	Comment Type T Comment Status A 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 tes pattern 3 is PRBS31. Are these appropriate test patterns for an 8B/10B encoded link?
Here, a reference to 128B.1 is made, but there is not high-frequency test pattern in 128B.1. The high-frequency test pattern is defined in 36A.1.	SuggestedRemedy Reevaluate the choice of jitter test patterns for 2.5GBASE-KX.
SuggestedRemedy Change the reference to 128B.1 with a reference to 36A.1.	Response Response Status C ACCEPT IN PRINCIPLE.
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 wit 5 consecutive 1's and 0's.
128B has been deleted and replaced with changes to 69A. See file	See file http://www.ieee802.org/3/cb/public/sep16/patra_3cb_01_0916_Jitter.pdf
http://www.ieee802.org/3/cb/public/nov16/mcmillan_3cb_03_CombinedAnnex%2069A128B 130B_20161107.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

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 128.7.1.8 Page 44 of 76 11/10/2016 5:12:56 PM

C/ 128 SC 128.7.1.8 P 110 L 39 # 181 Hidaka, Yasuo Fujitsu Lab of America Fujits	C/ 128 SC 128.7.1.10 P 111 L 2 # 297 Donahue, Curtis UNH-IOL
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. C C C	Comment Type TR Comment Status A 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 subclause equivalent to 128.7.1.10. SuggestedRemedy Either a) Remove 128.7.1.10 including associated text and diagrams.
CI 128 SC 128.7.1.9 P 110 L 46 # 296 Donahue, Curtis UNH-IOL Comment Type E Comment Status A Typos. "C" in "Component" and "peak-to-peaks". SuggestedRemedy Change sentence to " deterministic component of 0.15 UI peak-to-peak and a"	 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.
Response Response Status C ACCEPT.	Cl 128 SC 128.7.1.10 P 111 L 4 # 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.
	OBE, see comment #297, subclause 128.7.1.10 has been deleted.

C/ 128 SC 128.7.1.10 Page 45 of 76 11/10/2016 5:12:56 PM

C/ 128 SC 128.7.1.10 P 111 L 7 # 204 _usted, Kent Intel	C/ 128 SC 128.7.2.1 P 112 L 3 # 151 Smith, Daniel Seagate
Comment Type ER Comment Status A Figure 128-6 has a shadowing feature enabled that reduces readability.	Comment Type ER Comment Status A plural missing
SuggestedRemedy Remove shadowing.	SuggestedRemedy should read: The receiver interference tolerance consists
Response Response Status W ACCEPT. [Editor's note: this figure is an imported graphic that must be corrected outside of Framemaker.]	Response Response Status C ACCEPT IN PRINCIPLE.
C/ 128 SC 128.7.1.10 P 111 L 26 # 205	 Should be worded: The receiver interference tolerance shall consist of the test as described in Annex 69A with the parameters specified in Table 128–6.
Comment Type TR Comment Status A	[Editor's note: comment 128B is being changed to 69A in comments 118 and 119.]
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 amplitude of the waveform at the midpoint.	C/ 128 SC 128.7.2.1 P 112 L 5 # 182 Hidaka, Yasuo Fujitsu Lab of America
SuggestedRemedy consider defining a window in the flat portion of the waveform, away from the rise and falling edges, as the steady state voltage. see figure 72-12 for inspiration. Response Response Status W ACCEPT IN PRINCIPLE. See comment #192 and #193. [Editor's note: this figure is an imported graphic that must be corrected outside of Framemaker.]	Comment Type T Comment Status A Clause 59.9.1.1 does not exist. If this is intended to be test patterns 2 or 3 in 52.9.1.1, they are not recommended, because they are defined for 10GBASE-R which uses 64B66B encoding. They are oto much stressful for 8B10B links due to large DC wonder that do not exist after 8B10B encoding. SuggestedRemedy Use continuous jitter test pattern as defined in Annex 48A.5. See 71.7.2.1. Response Response Status C ACCEPT IN PRINCIPLE. Use test pattern as defined in Annex 36A.4.
	Cl 128 SC 128.7.2.5 P 113 L 3 # 183 Hidaka, Yasuo Fujitsu Lab of America Comment Type E Comment Status A "f" is not italic face. SuggestedRemedy
	Make "f" italic face. <i>Response Response Status</i> ACCEPT.
YPE: TR/technical required ER/editorial required GR/general required T/technical E/editoria OMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open	5

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SC 128.7.2.5 SORT ORDER: Clause, Subclause, page, line

C/ 128 SC 128.8 P 113 L 10 Healey, Adam Broadcom Ltd. Broadcom Ltd. <td># 250</td> <td>C/ 128 SC 128.10.3 P 115 L 28 # Hidaka, Yasuo Fujitsu Lab of America Fujitsu Lab of America</td> <td># 185</td>	# 250	C/ 128 SC 128.10.3 P 115 L 28 # Hidaka, Yasuo Fujitsu Lab of America Fujitsu Lab of America	# 185
Comment Type ER Comment Status A The interconnect requirements are defined in Annex 128C.		Comment Type T Comment Status A EEE is referred, but not defined.	
SuggestedRemedy Correct the reference.		SuggestedRemedy Add a row to define EEE.	
Response Response Status C ACCEPT.		Response Response Status C ACCEPT IN PRINCIPLE.	
C/ 128SC 128.10.3P 115L 9Iidaka, YasuoFujitsu Lab of America	# 184	EEE function is reflected in LPI which is defined above in same table. And T same table state "EEE:M" that is wrong. It is to be changed to "LPI:M".	D row in the
Comment Type E Comment Status A PCS is mandatory.		C/ 128 SC 128.10.4.1 P 115 L 53 # Laubach, Mark Broadcom Limited Broadcom Limited </td <td># 6</td>	# 6
SuggestedRemedy Remove "No []" in the support column for PCS. Response Response Status C		Comment Type E Comment Status A There are three occurences in this PICS section where the bottom horizonta is missing. The line needs to be there so we know that text hasn't fallen off also. Adjust whatever FM issue is causing this (never seen it before so car	the page
ACCEPT. 7 128 SC 128.10.3 P 115 L 28 Iidaka, Yasuo Fujitsu Lab of America	# [186	SuggestedRemedy As per comment. Response Response Status C	
Comment Type E Comment Status A TD is mandatory if EEE is supported.		ACCEPT.	
SuggestedRemedy Change "No []" with "N/A []" in the support column for TD.		C/ 128 SC 128.10.4.1 P 116 L 27 # Smith, Daniel Seagate	# 133
Response Response Status C		Comment Type ER Comment Status A Loopback function not effected	
ACCEPT.		SuggestedRemedy s/b: affected, not effected (it's a verb)	
		Response Response Status C ACCEPT.	
		[Editor's note: also changed in 128.6.5 p104 line 38 130.6.5 p140 line 31 1	

C/ 128 SC 128.10.4.1

Loopback affect on Transmitter loggestedRemedy s/b: Loopback effect on Transmitter (effect is a noun, a result, not an action word) esponse Response Status C ACCEPT. 128 SC 128.10.4.3 P 117 L 19 # 141 128 Sc gagate comment Type TR Comment Status A change to be a "maximum" loggestedRemedy Value/Comment column should read: Less than or equal to 30 mV within 500 ns of tx_mode = QUIET Less than or equal to 30 mV within 500 ns of tx_mode = QUIET	X 128 SC 128.10.4.1 mith, Daniel	P 116 Seagate	L 35	# 134	C/ 128A SC 128A.1 P 159 Healey, Adam Broadcom Ltd.	L 13 # 255
Site: Loopback effect on Transmitter (effect is a noun, a result, not an action word) seponse Response Status C ACCEPT:	Loopback affect on Trar				Since this is an Annex to Clause 128, it seems reaso	
Sections - Response Status C ACCEPT. 128 SC 128.10.4.3 P117 L19 # 141 mith, Daniel Seagate Clarify the relationship between a 2.5GBASE-KX PMD and the 2.5GSEI. Cearry if it is not correct, then it seems that the text and/or text point definitions should have this associated with the under. Canor text point action should read: Cearry if it is not correct, then the relationship between a 2.5GBASE-KX PMD and the 2.5GSEI. Value/Comment column should read: Less than or equal to 30 mV within 500 ns of tx_mode = QUIET Response Status C ACCEPT it For row TC3: remove '< symbol in font of <1200 mV, pk-pk. Change maximum to (max).	s/b: Loopback effect on Transmitter (effect is a noun, a result, not an action word) Response Response Status C				and TP5D-H and TP5H-D should be equivalent to to	TP4 in Clause 128. If so, then it
SuggestedRemedy SuggestedRemedy ValueComment column should read: Comment Status C Less than or equal to 30 mV within 500 ns of tx_mode = QUIET Response Response Response Status C ACCEPT IN PRINCIPLE. Commont of <1200 mV, pk-pk. Change maximum to (max).					specific partitioning of the generic channel described then it seems that the text and/or test point definitions	in Annex 128C. If all of this is correct, s should be modified to make this
mment Type TR Comment Status A change to be a "maximum" ggested/Remedy Value/Comment column should read: Less than or equal to 30 mV within 500 ns of tx_mode = QUIET seponse Response Status C ACCEPT IN PRINCIPLE. Response Status C For row TC3: remove '< symbol in front of <1200 mV, pk-pk. Change maximum to (max).			L 19	# 141	associated with is unclear. Is this Annex defining a co	ompletely different PMD?
change to be a "maximum" gggestedRemedy Value/Comment column should read: Less than or equal to 30 mV within 500 ns of tx_mode = QUIET sponse Response Status C ACCEPT IN PRINCIPLE. For row TC3: remove '<' symbol in front of <1200 mV, pk-pk. Change maximum to (max). For row TC4; change to: Tx differential output voltage (max) when disabled. Remove '<' from 30 mV, pk-pk. C 128A SC 128A:1 P160 L8 # 194 Hidaka, Yasuo Fujitsu Lab of America Comment Type T Comments Status A The definitions of the compliance points, the host compliance board, and the drive compliance board are not clearly shown in the figures. For instance, the output of PMD Transmit function is labeled as TP1_D-H in Figure 128A-2; the loss from TP1_D-H to the connector input is 0.9dB in the top figure but 1.375dB in the middle figure. SuggestedRemedy Define the compliance points clear. Response Response Status C ACCEPT IN PRINCIPLE. [Editor's note: duplicate of #257]	nith, Daniel	Seagate			SuggestedRemedy	
ggestafRemedy Value(Comment column should read: Less than or equal to 30 m within 500 ns of tx_mode = QUIET sponse Response Status C ACCEPT IN PRINCIPLE. For row TC3: remove '<' symbol in front of <1200 mV, pk-pk. Change maximum to (max).	omment Type TR	Comment Status A			Clarify the relationship between a 2.5GBASE-KX PM	D and the 2.5GSEI.
Value/Comment column should read: Less than or equal to 30 mV within 500 ns of tx_mode = QUIET seponse Response Status C ACCEPT IN PRINCIPLE. For row TC3: remove '< symbol in front of <1200 mV, pk-pk. Change maximum to (max).	change to be a "maximu	ım"			Response Response Status C	
ACCEPT IN PRINCIPLE. For row TC3: remove '< symbol in front of <1200 mV, pk-pk. Change maximum to (max). For row TC4, change to: Tx differential output voltage (max) when disabled. Remove '< from 30 mV, pk-pk.			ode = QUIET		[Editor's note: the commenter agreed to change the p	paragraph as follows, by adding this
Tx differential output voltage (max) when disabled. Cl 128A SC 128A.1 P 160 L 8 # [194] Remove '<' from 30 mV, pk-pk.	For row TC3: remove '<'	E. ' symbol in front of <1200 m	ιV, pk-pk. Chanς	ge maximum to (max).	Annex 128C, such that the test points TP0D-H and T equivalent to TP1 defined in Annex 128C, and TP5D-	P0H-D defined in this Annex are
Comment Type T Comment Status A The definitions of the compliance points, the host compliance board, and the drive compliance board are not clearly shown in the figures. For instance, the output of PMD transmit function is labeled as TP0_D-H in Figure 128A-2, the loss from TP1_D-H to the connector input is 0.9dB in the top figure but 1.375dB in the middle figure. SuggestedRemedy Define the compliance points clear. Response Response Status C ACCEPT IN PRINCIPLE. Fix figure 128A-2 to show the 2nd reference to TP1 as TP0 and elongate the path to make it look differrent. [Editor's note: duplicate of #257]					C/ 128A SC 128A.1 P 160	L 8 # 194
The definitions of the compliance points, the host compliance board, and the drive compliance board are not clearly shown in the figures. For instance, the output of PMD transmit function is labeled as TP0_D-H in Figure 128A-1, but labeled as TP1_D-H in Figure 128A-2. In Figure 128A-2, the loss from TP1_D-H to the connector input is 0.9dB in the top figure but 1.375dB in the middle figure. SuggestedRemedy Define the compliance points clear. Response Response Status C ACCEPT IN PRINCIPLE. Fix figure 128A-2 to show the 2nd reference to TP1 as TP0 and elongate the path to make it look differrent. [Editor's note: duplicate of #257]	Remove '<' from 30 mV	, pk-pk.			Hidaka, Yasuo Fujitsu Lab of A	America
compliance board are not clearly shown in the figures. For instance, the output of PMD transmit function is labeled as TP0_D-H in Figure 128A-1, but labeled as TP1_D-H in Figure 128A-2. In Figure 128A-2, the loss from TP1_D-H to the connector input is 0.9dB in the top figure but 1.375dB in the middle figure. SuggestedRemedy Define the compliance points clear. Response Response Status C ACCEPT IN PRINCIPLE. Fix figure 128A-2 to show the 2nd reference to TP1 as TP0 and elongate the path to make it look differrent. [Editor's note: duplicate of #257]					Comment Type T Comment Status A	
Define the compliance points clear. Response Response Status C ACCEPT IN PRINCIPLE. Fix figure 128A-2 to show the 2nd reference to TP1 as TP0 and elongate the path to make it look differrent. [Editor's note: duplicate of #257]					compliance board are not clearly shown in the figures transmit function is labeled as TP0_D-H in Figure 128 Figure 128A-2. In Figure 128A-2, the loss from TP1_	s. For instance, the output of PMD 8A-1, but labeled as TP1_D-H in
Response Response Status C ACCEPT IN PRINCIPLE. Fix figure 128A-2 to show the 2nd reference to TP1 as TP0 and elongate the path to make it look differrent. [Editor's note: duplicate of #257]				SuggestedRemedy		
ACCEPT IN PRINCIPLE. Fix figure 128A-2 to show the 2nd reference to TP1 as TP0 and elongate the path to make it look differrent. [Editor's note: duplicate of #257]				Define the compliance points clear.		
Fix figure 128A-2 to show the 2nd reference to TP1 as TP0 and elongate the path to make it look differrent. [Editor's note: duplicate of #257]					Response Response Status C	
it look differrent. [Editor's note: duplicate of #257]				ACCEPT IN PRINCIPLE.		
						as TP0 and elongate the path to make
					[Editor's note: duplicate of #257]	

C/ 128A SC 128A.1 P 160 L 8 # 256 Healey, Adam Broadcom Ltd. Broadcom Ltd.	C/ 128A SC 128A.1.1 P 161 L 29 # 148 Smith, Daniel Seagate
Comment Type TR Comment Status A In Figure 128A-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 TP1 or change the test point to TP0.	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.	Proposed Response Response Status Z REJECT.
Fix figure 128A-2 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.
[Editor's note: duplicate of #257]	C/ 128A SC 128A.2 P 163 L 17 # 264 Healey, Adam Broadcom Ltd. Br
C/ 128A SC 128A.1 P 160 L 27 # 257 Healey, Adam Broadcom Ltd. Comment Type TR Comment Status A	Comment Type TR Comment Status A In the second part of the figure, it seems the test point at the PMD receiver function should be TP5H-D. the test point at the connection interface should be TP4H-D, the "Tx PCB"
Why is the loss from TP1D-H to the connector 0.9 dB in one part of the figure and 1.375	should be "Rx PCB", and the AC coupling capacitors shown between the TP4 and TP5.
dB in another part of the figure. What has changed? Similarly for the TP1 to TP5 insertion loss.	SuggestedRemedy
loss.	Modify the figure per the comment.ResponseResponse StatusC
loss. SuggestedRemedy	Modify the figure per the comment.
loss. SuggestedRemedy Clarify the difference between the diagrams in Figure 128A-2. Response Response Status C ACCEPT IN PRINCIPLE. Fix figure 128A-2 to show the 2nd reference to TP1 as TP0 and elongate the path to make	Modify the figure per the comment. Response Response Status C ACCEPT.
loss. SuggestedRemedy Clarify the difference between the diagrams in Figure 128A-2. Response Response Status C ACCEPT IN PRINCIPLE. Fix figure 128A-2 to show the 2nd reference to TP1 as TP0 and elongate the path to make it look differrent. See file	Modify the figure per the comment. Response Response Status C ACCEPT. File: calbone_3cb_01_0916.pdf 4 C/ 128A SC 128A.3.1 P 164 L 1 # 21
loss. SuggestedRemedy Clarify the difference between the diagrams in Figure 128A-2. Response Response Status C ACCEPT IN PRINCIPLE. Fix figure 128A-2 to show the 2nd reference to TP1 as TP0 and elongate the path to make it look differrent.	Modify the figure per the comment. Response Response Status C ACCEPT. File: calbone_3cb_01_0916.pdf 4 C/ 128A SC 128A.3.1 P 164 L 1 # 21 Hajduczenia, Marek Charter Communicatio Comment Type E Comment Status A
loss. SuggestedRemedy Clarify the difference between the diagrams in Figure 128A-2. Response Response Status C ACCEPT IN PRINCIPLE. Fix figure 128A-2 to show the 2nd reference to TP1 as TP0 and elongate the path to make it look differrent. See file	Modify the figure per the comment. Response Response Status C ACCEPT. File: calbone_3cb_01_0916.pdf Image: Click and the status in the status of the st

C/ 128A SC 128A.3.1

C/ 128A SC 128A.3.1 P 164 L 7 # 74 Calbone, Anthony Seagate Seagate	C/ 128A SC 128A.3.1.4.1 P 166 L 32 # 195 Hidaka, Yasuo Fujitsu Lab of America
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	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 PAM4 test pattern.
Widen Units column so the whole word fits into one line.	SuggestedRemedy
Response Response Status C	Use the linear pulse fitting procedure for NRZ that is described in 92.8.3.5.1 and use PRBS9 test pattern.
ACCEPT. C/ 128A SC 128A.3.1 P 164 L 17 # 73 Calbone, Anthony Seagate	Response Response Status C ACCEPT IN PRINCIPLE. 000000000000000000000000000000000000
Comment Type E Comment Status A The return loss value is pointing to both an insertion loss and return loss equation.	See comment #258. C/ 128A SC 128A.3.1.4.1 P 166 L 33 # 236 Ewen, John GlobalFoundries Even and the second
SuggestedRemedy Change the value to "See Equation (128A-2)" Response Response Status C	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. A
ACCEPT. C/ 128A SC 128A.3.1.2 P 165 L 6 # 298 Donahue, Curtis UNH-IOL Comment Type E Comment Status A In Figure 128A-6 there are two instances of "SL". One of them should be "SL <n>". Same things appears in Figure 120A-6 in 130A.3.1.2.</n>	SuggestedRemedy Use a PRBS9 test pattern for the linear pulse fit as specified in 120.5.11.1.2 Response Response Status C ACCEPT IN PRINCIPLE. Comment #258 is the correct text and references needed here.
Same timings appears in Figure 120A-6 in TSOA.3.1.2. SuggestedRemedy Change one of the "SL" to "SL <n>" in Figure 128A-6 and 130A-6.</n>	CI 128A SC 128A.3.1.4.1 P 166 L 33 # 126 Slavick, Jeff Broadcom Limited Broadcom Li
Response Response Status C ACCEPT.	Comment Type TR Comment Status A PRBS13Q is a PAM4 data pattern. If you want to use a NRZ PRBS13 pattern for Linear fit 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 127 for use by 128A
	Response Response Status W ACCEPT.
	Same as comment #258.

C/ 128A SC 128A.3.1.4.1 Page 50 of 76 11/10/2016 5:12:57 PM

Cl 128A SC 128A.3.1.4.1 P 166 L 33 # 235 Ewen, John GlobalFoundries	C/ 128A SC 128A.3.1.4.2 P 166 L 40 # 259 Healey, Adam Broadcom Ltd. Broadcom Ltd. <td< th=""></td<>
Comment Type T Comment Status R Is Np=100 correct? This seems an order of magnitude larger than other clauses. SuggestedRemedy Change to Np=3 to be consistent with SNDR definition in 128A.3.1.7	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
Response Response Status C REJECT.	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.
Np=100 is correct.	Response Response Status C ACCEPT.
[Editor note: Related to comment #259.]	
C/ 128A SC 128A.3.1.4.1 P 166 L 33 # 258 Healey, Adam Broadcom Ltd. Broadcom Ltd.	[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]
Comment Type TR Comment Status A	C/ 128A SC 128A.3.1.5 P 166 L 49 # 299
PRBS13Q is a PAM4 test pattern and seems to be inappropriate for this interface.	Donahue, Curtis UNH-IOL
Furthermore, 94.3.12.5.2 pertains to the measurement of PAM4 signals. Note the similar issue with 128A.3.3.1.	Comment Type E Comment Status A
SuggestedRemedy 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.	S SuggestedRemedy Change to "five". Response Response Status C
Response Response Status C ACCEPT IN PRINCIPLE.	ACCEPT.

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 Np $\,$

=100.

C/ 128A SC 128A.3.1.5 Page 51 of 76 11/10/2016 5:12:57 PM

C/ 128A SC 128A.3.1.6 Healey, Adam	P 166 L Broadcom Ltd.	.54	# 260	C/ 128A SC 128A.3.2 Hajduczenia, Marek	P 167 Charter Comm	L 24 nunicatio	# 22
Comment Type T Comment SuggestedRemedy	Status A tic jitter is 0.12 UI and ompliant implementat	ion exhibit jitter	in excess of 0.32	Comment Type E no need to break the line column and shrink the Pa column to make sure "s"	Comment Status A in "See Equation (128A-2)" arameter column to comper	' statement - ext isate. Also, exte	
Check the jitter math. Note that DCD stated in 128A.3.1.6. Response Response S ACCEPT IN PRINCIPLE. In Table 128A-1: Change maximum Tj to 0.32 UI.		ponent of deterr	ministic jitter as	Please make sure all tab <i>Response</i> ACCEPT.	multiple tables in the draft th les have "-" in Units column <i>Response Status</i> C cells of all tables throughou	where no units	
See file http://www.ieee802.org/3/cb/public/se	p16/patra_3cb_01_0	916_Jitter_num	iber.pdf	Wherever the words are until this is resolved, thro	extending to a new line, adj ughout the draft.	ust the column v	vidths of the tables
Change "Duty Cycle Distortion" line b Duty Cycle Distortion (included in Dj)		inging text to:		CI 128A SC 128A.3.2 Calbone, Anthony	P 167 Seagate	L 27	# 76
Cl 128A SC 128A.3.2 Calbone, Anthony	P 167 L Seagate	.17	# 75	Comment Type E The interference tolerance	Comment Status A e Subclause reference is in	correct	
Comment Type E Comment S The second sentence is inconsistent		haracteristics s	ections.	SuggestedRemedy Change 128A.3.2.1 to 12	8A.3.2.2		
SuggestedRemedy Remove the second sentence: "The to (such as scrambled idle)."	est transmitter then t	ransmits any va	alid PCS output	Response ACCEPT.	Response Status C		
Response Response S ACCEPT.	Status C			C/ 128A SC 128A.3.2 Calbone, Anthony	P 167 Seagate	L 28	# 77
C/ 128A SC 128A.3.2 Calbone, Anthony	P 167 L Seagate	.23	# 78	Comment Type E The jitter tolerance Subcl	Comment Status A ause reference is incorrect		
Comment Type E Comment	Status A	41	and the s	SuggestedRemedy Change 128A.3.2.1 to 12	8A.3.2.3		
The Units column is not wide enough SuggestedRemedy Widen Units column so the whole wo		the "s" is on a s	second line.	Response ACCEPT.	Response Status C		
	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/ 128A SC 128A.3.2 Page 52 of 76 11/10/2016 5:12:57 PM

	Cl 128A SC 128A.3.2.2 P 168 L 30 # 9
Hidaka, Yasuo Fujitsu Lab of America	Laubach, Mark Broadcom Limited
Comment Type T Comment Status A It is not clear how the crosstalik is applied in the receiver interference tolerance test. In Figure 128A-9, the crosstalk is applied only during the calibration. Also, Figure 128A-8 and 128A-9 seem identical.	Comment Type T Comment Status A What is "Termination", e.g., definition, requirements, etc.? Searching the draft, can only find this word in this and similar CI 128A figures. So, what is the proper termination for the calibration and test setups?
SuggestedRemedy	SuggestedRemedy
Apply crosstalk during test.	Define termination as used in this draft.
Response Response Status C ACCEPT IN PRINCIPLE.	Response Response Status C ACCEPT IN PRINCIPLE.
Agree to add crosstalk requirement for the Tx driver that provides the crosstalk during a receiver interference test. This will require a procedure to be created and approved by the commenter. (From file: calbone_3cb_01_0916.pdf) - remove the TX that was present during calibration	Add footnote with asterisk on first instance with the words: * The single-ended transmit signals are terminated in 50 ohms to provide a 100 ohm differential termination. [Editor's note: first occurance is Figure 128A-8.]
 move noise injection to after the ISI channel text and figures need to change 	C/ 128A SC 128A.3.2.3 P 168 L 52 # 80 Calbone, Anthony Seagate Comment Type E Comment Status A
 - change 128A.3.2.2, 128A.3.4.2, 130A.3.2.2, 130A.3.4.2 according to documents Calbone_3cb_02_0916.pdf (and) Calbone_3cb_03_0916.pdf - note changes to figures 128A-8, 128A-9, 130A-8 and 130A-9 	The Figure 128A-10 reference is incorrect. SuggestedRemedy Change 128A-10 to 128A-9. Response Response Status C
C/ 128ASC 128A.3.2.2P 167L 40# 79Calbone, AnthonySeagate	
	C/ 128A SC 128A.3.2.3 P 168 L 52 # 200 Hidaka, Yasuo Fujitsu Lab of America Fuji
The Figure 128A-9 reference is incorrect. SuggestedRemedy	Comment Type E Comment Status A Table 128A-10 is applied peak-to-peak sinusoidal jitter.
	Comment Type E Comment Status A

C/ 128A SC 128A.3.2.3 Page 53 of 76 11/10/2016 5:12:57 PM

C/ 128A SC 128A.3.2.3 P 169 L 1 Hidaka, Yasuo Fujitsu Lab of America	# 201	C/ 128ASC 128A.3.3P 171L 8#23Hajduczenia, MarekCharter Communicatio
Comment Type T Comment Status A the host interference tolerance test		Comment Type E Comment Status A Is "per lane (range)" really intended to be crossed out?
SuggestedRemedy the host jitter tolerance test		SuggestedRemedy Remove the cross-out
Response Response Status C ACCEPT IN PRINCIPLE.		Similar issue on page 206, line 8 Response Response Status C ACCEPT IN PRINCIPLE.
Replace with:		Same as comment #63.
the jitter tolerance test C/ 128A SC 128A.3.2.3 P 170 L 11 _aubach, Mark Broadcom Limited	# 8	C/ 128A SC 128A.3.3 P 171 L 8 # 63 Anslow, Pete Ciena Cie
The alignment of box corners, lines, and arrows could be improved. All same diagram should most often be the same size. In many figures, the same to lines be used to be the same size.	text is uncomfortably	Since this parameter is indeed a range (not a min or max value), "(range)" seems correct. SuggestedRemedy
	text is uncomfortably becific for page and	
same diagram should most often be the same size. In many figures, to close to lines, boxes, and the figure caption. Generally, I like to be spi- line, but after getting through the entire doc some over all neatening m know it might be considered time consuming) SuggestedRemedy Suggested, as per comment. Response Response Status C	text is uncomfortably becific for page and	SuggestedRemedy replace "per lane (range)" with "(range)" in normal font. Response Response Status C ACCEPT IN PRINCIPLE. [Editor's note: duplicate of #23]
 same diagram should most often be the same size. In many figures, t close to lines, boxes, and the figure caption. Generally, I like to be sp line, but after getting through the entire doc some over all neatening m know it might be considered time consuming) SuggestedRemedy Suggested, as per comment. 	text is uncomfortably becific for page and night be nice (yes, I	SuggestedRemedy replace "per lane (range)" with "(range)" in normal font. Response Response Status C ACCEPT IN PRINCIPLE.
same diagram should most often be the same size. In many figures, the close to lines, boxes, and the figure caption. Generally, I like to be spilline, but after getting through the entire doc some over all neatening michaeline, but after getting through the entire doc some over all neatening michaeline, but after getting through the entire doc some over all neatening michaeline, but after getting through the entire doc some over all neatening michaeline, but after getting through the entire doc some over all neatening michaeline, but after getting through the entire doc some over all neatening michaeline, but after getting through the entire doc some over all neatening michaeline, but after getting through the entire doc some over all neatening michaeline, but after getting through the entire doc some over all neatening michaeline, but after getting through the entire doc some over all neatening michaeline, but after getting through the entire doc some over all neatening michaeline, but after getting through the entire doc some over all neatening michaeline, but after getting through the entire doc some over all neatening michaeline, but after getting through the entire doc some over all neatening michaeline, but after getting through the entire doc some over all neatening michaeline, but after getting through the entire doc some over all neatening michaeline, but after getting through the entire doc some over all neatening michaeline, but after getting through the entire doc some over all neatening michaeline, but after getting through the entire doc some over all neatening michaeline, but after getting through the entire doc some over all neatening michaeline, but after getting through the entire doc some over all neatening michaeline, but after getting through the entire doc some over all neatening michaeline, but after getting through the entire doc some over all neatening michaeline, but after getting through the entire doc some over all neatening michaeline, but after getting through the entire doc some o	text is uncomfortably becific for page and night be nice (yes, I	SuggestedRemedy replace "per lane (range)" with "(range)" in normal font. Response Response Status C ACCEPT IN PRINCIPLE. [Editor's note: duplicate of #23] [Editor's note: delete 'per lane (range)'] C/ 128A SC 128A.3.3 P 171 L 9 81
same diagram should most often be the same size. In many figures, to close to lines, boxes, and the figure caption. Generally, I like to be spilline, but after getting through the entire doc some over all neatening models in the model of the 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. P specific figures to change.] C/ 128A SC 128A.3.3 P 171 L 7 Calbone, Anthony Seagate	text is uncomfortably becific for page and night be nice (yes, I Please identify # 82	SuggestedRemedy replace "per lane (range)" with "(range)" in normal font. Response Response Status ACCEPT IN PRINCIPLE. [Editor's note: duplicate of #23] [Editor's note: delete 'per lane (range)'] C/ 128A SC 128A.3.3 P 171 L 9 Calbone, Anthony Seagate Comment Type E
same diagram should most often be the same size. In many figures, to close to lines, boxes, and the figure caption. Generally, I like to be spilline, but after getting through the entire doc some over all neatening movies in 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. P specific figures to change.] C/ 128A SC 128A.3.3 P 171 L 7 Calbone, Anthony Seagate Comment Type E Comment Status A	text is uncomfortably becific for page and night be nice (yes, I Please identify # 82	SuggestedRemedy replace "per lane (range)" with "(range)" in normal font. Response Response Status C ACCEPT IN PRINCIPLE. [Editor's note: duplicate of #23] [Editor's note: delete 'per lane (range)'] C/ 128A SC 128A.3.3 P 171 L 9 Calbone, Anthony Seagate Comment Type E Comment Type E Comment Status A Text is crossed out in the signaling rate parameter SuggestedRemedy

C/ 128A SC 128A.3.3 Page 54 of 76 11/10/2016 5:12:57 PM

C/ 128A SC 128A.3.3 P 171 L 28 # 83 Calbone, Anthony Seagate Seagate Seagate Seagate	C/ 128A SC 128A.3.3.1 P 171 L 38 # 238 Ewen, John GlobalFoundries GlobalFoundries # 238
Comment Type E Comment Status A The Signal-to-noise-and-distortion ratio (min) Subclause reference is incorrect.	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 Change 128A.3.3.2 to 128A.3.3.3	SuggestedRemedy
Response Response Status C	Use a PRBS9 test pattern for the linear pulse fit as specified in 120.5.11.1.2
ACCEPT.	Response Response Status C ACCEPT IN PRINCIPLE.
C/ 128A SC 128A.3.3.1 P 171 L 36 # 196 Hidaka, Yasuo Fujitsu Lab of America Fujitsu Lab of	See comment #258.
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 PAM4 test pattern.	C/ 128A SC 128A.3.3.2 P 171 L 8 # 300 Donahue, Curtis UNH-IOL Comment Type E Comment Status A
SuggestedRemedy	Remove the striked out text "per lane (range)".
Use the linear pulse fitting procedure for NRZ that is described in 92.8.3.5.1 and use PRBS9 test pattern.	SuggestedRemedy See comment.
Response Response Status C	Response Response Status C
ACCEPT IN PRINCIPLE. See comment #258.	ACCEPT. [Editor's note: same as #23]
C/ 128A SC 128A.3.3.1 P 171 L 38 # 237 Ewen, John GlobalFoundries Filter GlobalFoundries Filter	C/ 128A SC 128A.3.3.2 P 171 L 43 # 84 Calbone, Anthony Seagate
Comment Type T Comment Status R Is Np=100 correct? This seems an order of magnitude larger than other clauses.	Comment Type E Comment Status A There is an extra parenthesis around p(k)
SuggestedRemedy Change to Np=3 to be consistent with SNDR definition in 128A.3.3.3	SuggestedRemedy Remove the extra parathesis. Change p(k)) to p(k).
Response Response Status C REJECT.	Response Response Status C ACCEPT.
Np=100 is correct.	
[Editor note: Related to comment #259.]	

C/ 128A SC 128A.3.3.2 Page 55 of 76 11/10/2016 5:12:57 PM

/ 128A SC 128A.3.4 albone, Anthony	P 172 Seagate	L 8	# 85	C/ 128A SC 128A.4.2.2 P 175 Anslow, Pete Ciena	L 36 # 64
omment Type E The Units column is not	Comment Status A wide enough for the title Un	its, so the "s" is	on a second line.	Comment Type E Comment Status A "Annex title" should be replaced by the annex title!	
uggestedRemedy Widen Units column so	he whole word fits into one	line.		SuggestedRemedy Replace "Annex title" with "2.5Gb/s Storage Enclose	ure Interface (2.5GSEI)"
esponse ACCEPT.	Response Status C			Response Response Status C ACCEPT.	
128A SC 128A.3.4.3 albone, Anthony	P 173 Seagate	L 35	# 86	Cl 128A SC 128A.4.2.2 P 175 Hajduczenia, Marek Charter Comr	L 42 # 24
omment Type E The Figure 128A-10 refe	Comment Status A rence is incorrect.			Comment Type E Comment Status A I do not think 802.3cb will be published in 2016.	
<i>uggestedRemedy</i> Change 128A-10 to 128	\-11 .			SuggestedRemedy Please change all references to "802.3cb-2016" to '	"802.3cb-201x"
esponse ACCEPT.	Response Status C			Response Response Status C ACCEPT.	
128A SC 128A.4.2.1 nslow, Pete	<i>P</i> 175 Ciena	L 21	# 69	C/ 128A SC 128A.4.4 P 176 Anslow, Pete Ciena	L 16 # 66
<i>mment Type</i> E Comment i-52 against P the base standard.	Comment Status A 802.3bx D3.0 changed all ir	nstances of "enq	uiries" to "inquiries" in	Comment Type T Comment Status A "10E-12" is equivalent to 1E-11 and also not in the f	format used in 802.3.
iggestedRemedy Change "enquiries" to "i esponse	nquiries" here, in 128B.4.2. <i>Response Status</i> C	1, 128D.4.2.1, a	nd 130A.4.2.1	SuggestedRemedy Change to "10-12" where "-12" is a superscript. Make the same change in 128A.4.4.2 (2 places), 12 130A.4.4.2 (2 places), 130A.4.4.4 (2 places)	28A.4.4.4 (2 places), 130A.4.4,
ACCEPT IN PRINCIPLE	•			Response Response Status C ACCEPT.	

C/ 128A SC 128A.4.4

C/ 128A SC 128A.4.4 P 176 L 16 # 25	C/ 128B SC 128B P 179 L 5 # 118
ajduczenia, Marek Charter Communicatio	D'Ambrosia, John Futurewei, Subsidiary
Comment Type E Comment Status A	Comment Type ER Comment Status A
We do not use "E" based description for BER very often	Annex 128B is primarily a duplication of Annex 69B. Such duplication should be avoided
SuggestedRemedy	SuggestedRemedy
Change "BER < 10E-12" to proper format as seen in 128A.1.1	There are two options
Same for HI4, HI6, DI4, DI6 more of "E" based BER values in Table 128C–1	 delete annex 128B - modify annex 69B to add in specific requirements related to 2.5GBASE-KR
There are more instances in text and in PICS that need to be replaced.	2. Delete redundant text in annex 128b, and replace in each instance with pointer to the
esponse Response Status C	original text in Annex 69B
ACCEPT.	Response Response Status W
	ACCEPT IN PRINCIPLE.
128A SC 128A.4.4 P 176 L 16 # 65	Use solution #1.
nslow, Pete Ciena	Delete annex 128B, and place 2.5G information into 69A.
Comment Type T Comment Status A	C/ 128B SC 128B.2.4 P 181 L 25 # 301
The abbreviation "BER" stands for "bit error ratio", not "bit error rate"	Donahue. Curtis UNH-IOL
SuggestedRemedy	
CuggestedRemedy Change "Bit Error Rate" to "Bit error ratio" in 128A.4.4 and 130A.4.4	Comment Type TR Comment Status A
Change "Bit Error Rate" to "Bit error ratio" in 128A.4.4 and 130A.4.4	Comment Type TR Comment Status A Since Clause 128 doesn't define equalization is this transmitter control necessary? It's or
-	Comment Type TR Comment Status A Since Clause 128 doesn't define equalization is this transmitter control necessary? It's or used to change equalizor values during the receiver interference tolerance test.
Change "Bit Error Rate" to "Bit error ratio" in 128A.4.4 and 130A.4.4 Response Response Status C ACCEPT.	Comment Type TR Comment Status A Since Clause 128 doesn't define equalization is this transmitter control necessary? It's or used to change equalizor values during the receiver interference tolerance test. SuggestedRemedy
Change "Bit Error Rate" to "Bit error ratio" in 128A.4.4 and 130A.4.4 Pesponse Response Status C ACCEPT. 7 128A SC 128A.4.4.2 P 177 L 4 # 67	Comment Type TR Comment Status A Since Clause 128 doesn't define equalization is this transmitter control necessary? It's or used to change equalizor values during the receiver interference tolerance test. SuggestedRemedy Remove 128B.2.4
Change "Bit Error Rate" to "Bit error ratio" in 128A.4.4 and 130A.4.4 esponse Response Status C ACCEPT. 7 128A SC 128A.4.4.2 P 177 L 4 # 67 nslow, Pete Ciena	Comment Type TR Comment Status A Since Clause 128 doesn't define equalization is this transmitter control necessary? It's or used to change equalizor values during the receiver interference tolerance test. SuggestedRemedy Remove 128B.2.4 Response Response Status C
Change "Bit Error Rate" to "Bit error ratio" in 128A.4.4 and 130A.4.4 Response Response Status C ACCEPT. C/ 128A SC 128A.4.4.2 P 177 L 4 # 67 Inslow, Pete Ciena Comment Type E Comment Status A	Comment Type TR Comment Status A Since Clause 128 doesn't define equalization is this transmitter control necessary? It's or used to change equalizor values during the receiver interference tolerance test. SuggestedRemedy Remove 128B.2.4
Change "Bit Error Rate" to "Bit error ratio" in 128A.4.4 and 130A.4.4 esponse Response Status C ACCEPT. 7 128A SC 128A.4.4.2 P 177 L 4 # 67 nslow, Pete Ciena comment Type E Comment Status A http://www.ieee802.org/3/WG_tools/editorial/requirements/words.html says that "The	Comment Type TR Comment Status A Since Clause 128 doesn't define equalization is this transmitter control necessary? It's or used to change equalizor values during the receiver interference tolerance test. SuggestedRemedy Remove 128B.2.4 Response Response Status C
Change "Bit Error Rate" to "Bit error ratio" in 128A.4.4 and 130A.4.4 Response Response Status C ACCEPT. C/ 128A SC 128A.4.4.2 P 177 L 4 # 67 Inslow, Pete Ciena Comment Type E Comment Status A http://www.ieee802.org/3/WG_tools/editorial/requirements/words.html says that "The symbol 'bps' is not used, instead 'b/s' is used"	Comment Type TR Comment Status A Since Clause 128 doesn't define equalization is this transmitter control necessary? It's or used to change equalizor values during the receiver interference tolerance test. SuggestedRemedy Remove 128B.2.4 Response Response Status ACCEPT.
Change "Bit Error Rate" to "Bit error ratio" in 128A.4.4 and 130A.4.4 esponse Response Status C ACCEPT. / 128A SC 128A.4.4.2 P 177 L 4 # 67 nslow, Pete Ciena omment Type E Comment Status A http://www.ieee802.org/3/WG_tools/editorial/requirements/words.html says that "The symbol 'bps' is not used, instead 'b/s' is used" uggestedRemedy	Comment Type TR Comment Status A Since Clause 128 doesn't define equalization is this transmitter control necessary? It's or used to change equalizor values during the receiver interference tolerance test. SuggestedRemedy Remove 128B.2.4 Response Response Status C ACCEPT. C/ 128B SC 128B.3 P181 L 40 # <u>302</u> Donahue, Curtis UNH-IOL
Change "Bit Error Rate" to "Bit error ratio" in 128A.4.4 and 130A.4.4 Pesponse Response Status C ACCEPT. T 128A SC 128A.4.4.2 P 177 L 4 # 67 Inslow, Pete Ciena Comment Type E Comment Status A http://www.ieee802.org/3/WG_tools/editorial/requirements/words.html says that "The symbol 'bps' is not used, instead 'b/s' is used"	Comment Type TR Comment Status A Since Clause 128 doesn't define equalization is this transmitter control necessary? It's or used to change equalizor values during the receiver interference tolerance test. SuggestedRemedy Remove 128B.2.4 Response Response Status C ACCEPT. C/ 128B SC 128B.3 P181 L 40 # <u>302</u> Donahue, Curtis UNH-IOL
Change "Bit Error Rate" to "Bit error ratio" in 128A.4.4 and 130A.4.4 Response Response Status C ACCEPT. 27 128A SC 128A.4.4.2 P 177 L 4 # 67 nslow, Pete Ciena Comment Type E Comment Status A http://www.ieee802.org/3/WG_tools/editorial/requirements/words.html says that "The symbol 'bps' is not used, instead 'b/s' is used" suggestedRemedy Change "Gbps" to "Gb/s" in 128A.4.4.2 (2 places), 128A.4.4.4 (2 places), 130A.4.4.2	Comment Type TR Comment Status A Since Clause 128 doesn't define equalization is this transmitter control necessary? It's or used to change equalizor values during the receiver interference tolerance test. SuggestedRemedy Remove 128B.2.4 Response Response Status C ACCEPT. CI 128B SC 128B.3 P181 L 40 # 302 Donahue, Curtis UNH-IOL (2 Comment Type E Comment Status A
Change "Bit Error Rate" to "Bit error ratio" in 128A.4.4 and 130A.4.4 Response Response Status C ACCEPT. To 128A SC 128A.4.4.2 P 177 L 4 # 67 Inslow, Pete Ciena Comment Type E Comment Status A http://www.ieee802.org/3/WG_tools/editorial/requirements/words.html says that "The symbol 'bps' is not used, instead 'b/s' is used" SuggestedRemedy Change "Gbps" to "Gb/s" in 128A.4.4.2 (2 places), 128A.4.4.4 (2 places), 130A.4.4.2 places), 130A.4.4.4 (2 places)	(2 Comment Type TR Comment Status A Since Clause 128 doesn't define equalization is this transmitter control necessary? It's or used to change equalizor values during the receiver interference tolerance test. SuggestedRemedy Remove 128B.2.4 Response Response Status C ACCEPT. C/ 128B SC 128B.3 P 181 L 40 # 302 Donahue, Curtis UNH-IOL UNH-IOL (2 Comment Type E Comment Status A
Change "Bit Error Rate" to "Bit error ratio" in 128A.4.4 and 130A.4.4 Pesponse Response Status C ACCEPT. To 128A SC 128A.4.4.2 P 177 L 4 # 67 Inslow, Pete Ciena Comment Type E Comment Status A http://www.ieee802.org/3/WG_tools/editorial/requirements/words.html says that "The symbol 'bps' is not used, instead 'b/s' is used" PuggestedRemedy Change "Gbps" to "Gb/s" in 128A.4.4.2 (2 places), 128A.4.4.4 (2 places), 130A.4.4.2 places), 130A.4.4.4 (2 places) Pesponse Response Status C	(2 Comment Type TR Comment Status A Since Clause 128 doesn't define equalization is this transmitter control necessary? It's or used to change equalizor values during the receiver interference tolerance test. SuggestedRemedy Remove 128B.2.4 Response Response Response CI 128B SC 128B 128B

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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Cl 128B SC 128B.4.4. Hajduczenia, Marek	2 P 183 Charter Comm	L 44 unicatio	# 26	<i>Cl</i> 128C <i>SC</i> 128C.4.1 Donahue, Curtis	<i>P</i> 186 UNH-IOL	L 24	# 304
Comment Type E We do have a special s SuggestedRemedy	Comment Status A symbol for ">=" please see the	e front matter a	nd table of symbols	Comment Type E Top two rows of Table 128 "f_min" where "_" represent		ax" and "F min". S	Should be "f_max" and
,	nces of ">=" with appropriate bols	symbol. The s	ame goes for "<="	SuggestedRemedy Change to "f_max" and "f_	_min".		
Response ACCEPT.	Response Status C			Response F ACCEPT.	Response Status C		
C/ 128C SC 128C.3	P 185	L 50	# 303	Capital F becomes lowerc	ase f and MIN and MAX b	ecome subscript	S.
Donahue, Curtis Comment Type E "100 (Ohm)+/- 10%".	UNH-IOL Comment Status A			Cl 128C SC 128C.4.1 Anslow, Pete Comment Type E	P 186 Ciena Comment Status A	L 27	# 71
SuggestedRemedy				802.3 does not use the for			
Note: Use Ohm symbo Response	eads "100 (Ohm) +/- 10%". I. Response Status C			SuggestedRemedy Change "2E-5" to 2 x 10-5 Change the numbers in th Scrub the draft for other ir	e next three rows in an eq		1 "-5" is a superscript.
ACCEPT.				Response F	Response Status C		
C/ 128C SC 128C.3 Hajduczenia, Marek	P 185 Charter Comm	L 50 unicatio	# 27	ACCEPT.			
Comment Type E Missing space in "100	Comment Status A ± 10%." - make sure "±" syn	bol has always	s spaces around it				
SuggestedRemedy Per comment							
Response ACCEPT.	Response Status C						

C/ 128C SC 128C.4.1 Page 58 of 76 11/10/2016 5:12:57 PM

C/ 128C SC 128C.4.3 P 188 L 2 # 272 Healey, Adam Broadcom Ltd.	CI 128C SC 128C.4.4 P 188 L 41 Smith, Daniel Seagate	# 129
Comment Type TR Comment Status A Using Equation (128C-7), it appears the maximum insertion loss for 5GBASE-KR is allowed to be about 33.6 dB at 2.578125 GHz. This does not agree with a fitted attenuation limit of 13.4 dB at 2.578125 GHz and an insertion loss deviation limit of +/-2.8 dB at 2.578125 GHz. This implies the insertion loss should not exceed 16.2 dB at that frequency.	Comment Type ER Comment Status A Missing parenthesis on the term: Af) SuggestedRemedy s/b: A(f)	
SuggestedRemedy	Response Response Status C	
Revisit the insertion loss equation for 5GBASE-KR.	ACCEPT.	
Response Response Status C ACCEPT IN PRINCIPLE.	CI 128C SC 128C.4.4 P 188 L 46 Healey, Adam Broadcom Ltd. Broadcom Ltd	# 274
Corrected equation 128C-7 was incorrect and was changed, and Figure 128C-3 was replotted.	Comment Type TR Comment Status A Equations (128C-9) and (128C-10) are incorrect.	
See file http://www.ieee802.org/3/cb/public/sep16/patra_3cb_01_0916_IL.pdf	SuggestedRemedy Change "0.7^(-9)" to "0.7x10^(-9)" in both cases.	
See replot at http://www.ieee802.org/3/cb/public/nov16/Fig%20128C-3%20-%20Insertion%20Loss.png	Response Response Status C ACCEPT. Exponent notation changed.	
CI 128C SC 128C.4.3 P 188 L 13 # 273 Healey, Adam Broadcom Ltd. Broadcom Ltd. # 273 Comment Type TR Comment Status A Equation (128C-7) states the range of the limit to be fmax, and in Table 128C-1, fmax is assigned a value of 7 GHz. However, Figure 128C-3 only plots the limit to about 2.25 GHz	[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. Check Equation 130C-9.]	
and it is unclear how the curve applies to 2.5GBASE-KX and 5GBASE-KR (compare to Figure 128C-2).	Cl 128C SC 128C.4.6.1 P 190 L 34 Donahue, Curtis UNH-IOL	# 305
SuggestedRemedy Replace the plot with one that illustrates the limit over the specified frequency range and annotate the plot so show how it applies to 2.5GBASE-KX and 5GBASE-KR respectively	Comment Type E Comment Status A Missing "(" in "PSNEXT)".	
(including the "high confidence" regions").	SuggestedRemedy	
Response Response Status C	Change to "(PSNEXT)".	
ACCEPT IN PRINCIPLE. Creating new equation and plot for 5GBASE-KR.	Response Response Status C ACCEPT.	
Changed Figure 128C-3 for updated equation for 2.5GBASE-KX.		
Implement the changes in file: http://www.ieee802.org/3/cb/public/nov16/calbone_3cb_01_1116.pdf		

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/ 128C SC 128C.4.6.1 Page 59 of 76 11/10/2016 5:12:57 PM

Cl 128D SC 128D P 193 Healey, Adam Broadcom L	L 6 .td.	# 269	Cl 128D SC 128D.2 Calbone, Anthony	P 194 Seagate	L 49	# 110
Comment Type T Comment Status A The title of this annex is "Test Fixtures for 2.5 Gb/ seems to define the test fixtures for the SEIs. Test and 130.7.1.1 which are presumably also backplar	t fixtures are also		Comment Type E Title is incorrect SuggestedRemedy Change title to "Mated	Comment Status A		
SuggestedRemedy Rename the Annex to "Test Fixtures for Storage E consolidate the Clause 128 and Clause 130 test fi			Response ACCEPT.	Response Status C		
Response Response Status C ACCEPT IN PRINCIPLE.			C/ 128D SC 128D.2.3 Hajduczenia, Marek	P 196 Charter Com	L 31 municatio	# 29
Rename the Annex to "Test Fixtures for Storage E	Enclosure Interface	es"	Comment Type E	Comment Status A		
Cl 128DSC 128DP 193Calbone, AnthonySeagateComment TypeEComment StatusA	L 8	# 109	Tables are usually cent SuggestedRemedy Please center Table 12			
Figure 128D-1 is mentioned twice. SuggestedRemedy Consider revising to "test fixtures illustrated in Figu	ure 128D-1" or sor	nething similar.	Response ACCEPT.	Response Status C		
Response Response Status C ACCEPT IN PRINCIPLE.		Ũ				
Change sentnece to: Transmitter and receiver measurements are made Figure 128D–1.	e utilizing the test f	ixtures specified in				
C/ 128D SC 128D.1.2 P 193	L 50	# 28				
Hajduczenia, Marek Charter Cor	nmunicatio					
Comment Type E Comment Status A text in lines 50-54 is shown in italics, but it is not p	part of the equatior	1.				
SuggestedRemedy Please apply proper text tyle						
Simialr problem on page 196, lines 50-52; page 20	02, line 54					
Response Response Status C ACCEPT.						

C/ 128D SC 128D.2.3 Page 60 of 76 11/10/2016 5:12:57 PM

C/ 128D SC 128D.2.3.1 P 196 L 39 # 306 Donahue, Curtis UNH-IOL UNH-IOL Image: Content of the second sec	C/ 128D SC 128D.2.3.2 P 197 L 19 # 307 Donahue, Curtis UNH-IOL
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". SuggestedRemedy 1) Change the subclause title to "Mated test fixture multiple disturber near-end crosstalk (MDNEXT) loss". 2) Change "Single Disturber Near-End Crosstalk" to "Multiple Disturber Near-End	Comment Type TR Comment Status A This subclause is either missing parameters (mostly far-end) or has some additional 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 Either a) Remove Equation 128D-7 and any references to that equation.
Crosstalk". <i>lesponse</i> Response Status C ACCEPT IN PRINCIPLE. (From calbone_3cb_01_0916.pdf): - change annex 128D according to document Calbone_3cb_04_0916.pdf)	or b) Add in far-end parameters to these definitions and rename Wnt in Eq. 128D-7 to Wft. <i>Response Response Status</i> C ACCEPT IN PRINCIPLE.
Delete subclause: 128D.2.3.1 Mated test fixtures integrated crosstalk noise In clause 128D, change all reference to MDNEXT to NEXT.	Adopt suggestion a). (From calbone_3cb_01_0916.pdf): - change annex 128D according to document Calbone_3cb_04_0916.pdf)
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.	Cl 129 SC 129.1.3 P 120 L 15 # 187 Hidaka, Yasuo Fujitsu Lab of America Comment Type E Comment Status A 5GBASE-X PCS in Figure 129-1. SuggestedRemedy Change "5GBASE-X PCS" with "5GBASE-R PCS". Response Response Status C ACCEPT.

C/ 129 SC 129.1.3 Page 61 of 76 11/10/2016 5:12:57 PM

C/ 129 SC 129.1.3 Donahue, Curtis	<i>P</i> 120 UNH-IOL	L 16	# 308	C/ 129 SC 129.5 Donahue, Curtis	<i>P</i> 126 UNH-IOL	L 10	# 311
Comment Type E "5GBASE-X PCS". Sho	Comment Status A build be "5GBASE-R PCS".				Comment Status A aragraph to abbreviate "bit-tim		ne on;y instance of "BT
SuggestedRemedy Change to "5GBASE-R	PCS"			SuggestedRemedy	hould be consistant throughou	t draft.	
0				Change "BT" to "bit-t	imes"		
Response ACCEPT.	Response Status C			Response ACCEPT.	Response Status C		
[Editor's note: duplicate	e of #187]			C/ 129 SC 129.7.3	P 128	L 14	# 040
C/ 129 SC 129.1.4	P 121	L 17	# 309	Donahue, Curtis	UNH-IOL	L 14	# <u>3</u> 12
onahue, Curtis	UNH-IOL			Comment Type E	Comment Status A		
	Comment Status A inconsistantcy between "5GE only saw "5GBASE-KR PME			"PCS" is used in the the same name. SuggestedRemedy	Value column of rows 3 and 4.	Two major capa	abilities should not use
uggestedRemedy				Change the "PCS" in	row 4 to "BER".		
,	f "5GBASE-R PMD" to "5GB. laces.	ASE-KR PMD". I	see "5GBASE-R	Response ACCEPT.	Response Status C		
Page 121, Line 17 Page 125, Line 5 Page 134, Line 24				<i>Cl</i> 129 <i>SC</i> 129.7.6 Donahue, Curtis	.3 P 130 UNH-IOL	L 40	# 313
Response	Response Status C			Comment Type E	Comment Status A		
ACCEPT.				The PICS table in 12	9.7.6.2 and 29.7.6.3 are idention	cal.	
	D.405	/ 00	" 010	SuggestedRemedy			
/ 129 SC 129.3.2.2 onahue, Curtis	<i>P</i> 125 UNH-IOL	L 39	# 310	Populate the PICS ta	ble in 129.7.6.3 with the appro	priate text.	
,				Response	Response Status C		
Comment Type E	Comment Status A nstances of "sixteen". The IE	EE atula manual	state the numbers loss	ACCEPT IN PRINCI	PLE.		
	t out. To be consistant with o			Change 129.7.6.2 Lo Item: LB1	opback tabel to read:		
SuggestedRemedy				Feature: PMA Loopb	ack		
Change all instances of	f "sixteen" to "16".			Subclause: 129.3.3 Value/Comment: cor	form to the requirements of Cl	ause	
Response	Response Status C			51.8			
ACCEPT.				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

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C/ 129 SC 129.7.6.6 P 131 L 25 # 355	C/ 130 SC 130.6.4 P 138 L 5 # 188
aw, David HPE	Hidaka, Yasuo Fujitsu Lab of America
Comment Type E Comment Status A Suggest we don't use dashes in PICS item designation.	Comment Type T Comment Status A It is too rough to say that the definition of the PMD signal detect function is beyond the scope of this specification.
uggestedRemedy Suggest that the item designations LP-0X be changed to read 'LPX'.	SuggestedRemedy
esponse Response Status C	Give a brief definition of the PMD signal detect function regarding to the functionality. I may be OK to say the detail implementation is beyond the scope of this specification.
ACCEPT. 7 130 SC 130.1 P 133 L 9 # 251	Response Response Status C ACCEPT IN PRINCIPLE.
ealey, Adam Broadcom Ltd. omment Type E Comment Status A Clause 45 is not an external cross-reference since it is amended in this draft.	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.
uggestedRemedy Make this a live cross-reference to Clause 45 and change the font color to black.	C/ 130 SC 130.7.1.2 P 141 L 23 # [189] Hidaka, Yasuo Fujitsu Lab of America
· · · · · · · · · · · · · · · · · · ·	
ACCEPT. C	Comment Type T Comment Status A This clause specifies not only impedance of test fixture, but also return loss of test fixt
ACCEPT. 7 130 SC 130.6.4 P 138 L 3 # 314	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
ACCEPT. / 130 SC 130.6.4 P 138 L 3 # 314 onahue, Curtis UNH-IOL	This clause specifies not only impedance of test fixture, but also return loss of test fixt
ACCEPT. 130 SC 130.6.4 P 138 L 3 # <u>314</u> onahue, Curtis UNH-IOL <i>omment Type</i> E Comment Status A "Global PMD signal detect function" should be "Global_PMD_signal_detect function"	This clause specifies not only impedance of test fixture, but also return loss of test fixture <i>SuggestedRemedy</i> Change the title of clause from "Test fixture impedance" to "Test fixture characteristics <i>Response</i> <i>Response</i> <i>C</i>
ACCEPT. 1 130 SC 130.6.4 P 138 L 3 # <u>314</u> onahue, Curtis UNH-IOL omment Type E Comment Status A "Global PMD signal detect function" should be "Global_PMD_signal_detect function" uggestedRemedy Change to "Global_PMD_signal_detect function".	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 ACCEPT. C/ 130 SC 130.7.1.2 P 141 L 34 # 190
ACCEPT. 130 SC 130.6.4 P 138 L 3 # <u>314</u> Denahue, Curtis UNH-IOL Domment Type E Comment Status A "Global PMD signal detect function" should be "Global_PMD_signal_detect function" UggestedRemedy Change to "Global_PMD_signal_detect function". Desponse 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 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
ACCEPT. 130 SC 130.6.4 P 138 L 3 # <u>314</u> Drahue, Curtis UNH-IOL Domment Type E Comment Status A "Global PMD signal detect function" should be "Global_PMD_signal_detect function" DuggestedRemedy Change to "Global_PMD_signal_detect function". Desponse Response Status C	This clause specifies not only impedance of test fixture, but also return loss of test fixture <i>SuggestedRemedy</i> Change the title of clause from "Test fixture impedance" to "Test fixture characteristics <i>Response Response Status</i> C ACCEPT. <i>CI</i> 130 <i>SC</i> 130.7.1.2 <i>P</i> 141 <i>L</i> 34 <i>#</i> 190 Hidaka, Yasuo Fujitsu Lab of America <i>Comment Type</i> T <i>Comment Status</i> A Equation 130-1 and 130-2 are not continuous at 2579 MHz. <i>SuggestedRemedy</i>
ACCEPT. 130 SC 130.6.4 P 138 L 3 # 314 130 SC 130.6.4 P 138 L 3 # 314 Inahue, Curtis UNH-IOL UNH-IOL Image: Comment Status A Imag	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:
ACCEPT. # 130 SC 130.6.4 P 138 L 3 # 314 onahue, Curtis UNH-IOL formment Type E Comment Status A "Global PMD signal detect function" should be "Global_PMD_signal_detect function" uggestedRemedy Change to "Global_PMD_signal_detect function". Pesponse Response Status C	This clause specifies not only impedance of test fixture, but also return loss of test fixture <i>SuggestedRemedy</i> Change the title of clause from "Test fixture impedance" to "Test fixture characteristics <i>Response Response</i> Status C ACCEPT. C/ 130 SC 130.7.1.2 P 141 L 34 # 190 Hidaka, Yasuo Fujitsu Lab of America <i>Comment Type</i> T <i>Comment Status</i> A Equation 130-1 and 130-2 are not continuous at 2579 MHz. <i>SuggestedRemedy</i> Change the right hand side of Equation 130-2 as follows: 24 - 13.275 log_10 (f / 1289 MHz) <i>Response</i> Status C

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/generalC/130Page 63 of 76COMMENT STATUS: D/dispatched A/accepted R/rejectedRESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawnSC 130.7.1.211/10/2016 5:12:57 PMSORT ORDER: Clause, Subclause, page, lineSC 130.7.1.2SC 130.7.1.211/10/2016 5:12:57 PM

C/ 130 SC 130.7.1.4 P 141 Smith, Daniel Seagate	L 46	# 142	Cl 130 SC 130.7.1.4 P 142 L 17 # 144 Smith, Daniel Seagate
Comment Type TR Comment Status A change to be a "maximum"			Comment Type TR Comment Status A change to be a "maximum"
SuggestedRemedy should read: shall be less than or equal to 1200 mV,			SuggestedRemedy should read: shall be less than or equal to 30 mV
Response Response Status C ACCEPT IN PRINCIPLE.			Response Response Status C ACCEPT IN PRINCIPLE.
Double documentation. Use table value instead. Te	xt should read:		Double documentation. Use table value instead. Text should read:
For a 1010 pattern, the peak-to-peak Differential pe Table 130–4, regardless of equalization setting.	ak-to-peak outpu		For EEE capability, the transmitter's Differential peak-to-peak output voltage with TX disabled is defined in Table 130–4, within 500 ns of tx_mode being set to QUIET and remain so while tx_mode is set to QUIET.
C/ 130 SC 130.7.1.4 P 141 Smith, Daniel Seagate	L 47	# 143	 C/ 130 SC 130.7.1.7 P144 L 30 # 209 Lusted, Kent Intel
Comment Type TR Comment Status A			Comment Type TR Comment Status A
change to be a "maximum" uggestedRemedy			The rising and falling transition times requirement references v1 and v4. v4 is the pre-
should read:			emphasis point. v3 is the negative waveform level. SuggestedRemedy
shall be less than or equal to 30 mV peak-to-peak Response Response Status C			change "v4" to "v3"
ACCEPT IN PRINCIPLE.			Response Response Status W
Double documentation. Use table value instead. Te	xt should read:		ACCEPT.
Differential peak-to-peak output voltage with TX dis	abled is defined i	n Table 130–4.	C/ 130 SC 130.7.1.7 P 144 L 31 # 316 Donahue, Curtis UNH-IOL UNH-IOL Image: Curtis Image: Cu
C/ 130 SC 130.7.1.4 P 142 Donahue, Curtis UNH-IOL	L 5	# 315	Comment Type ER Comment Status A The enabling/disabling of equalization in this paragraph is confusing. First it says "with no
Comment Type E Comment Status A In Figure 130-3, "SL - SLn <n>".</n>			equalization and a run of at least eight consecutive ones." then says "equalization may be disabled completely during this testing." Should be clear and consistant.
uggestedRemedy			SuggestedRemedy
Change to "SL - SL <n>".</n>			Remove the last sentence of this paragraph. This will make it clear that equalization needs to be disabled to accurately measure the transition time, and it would be consistant with 10GBASE-KR as well.
Response Response Status C			Response Response Status C
ACCEPT.			ACCEPT.

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 C/ 130

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 SC 130.7.1.7

 SORT ORDER: Clause, Subclause, page, line
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C/ 130 SC 130.7.1.8 P 144 L 155 # 191 Hidaka, Yasuo Fujitsu Lab of America Fujit	C/ 130 SC 130.7.1.11 P 145 L 23 # 241 Ewen, John GlobalFoundries
Comment Type TR Comment Status D Methodology of jitter measurement in Annex 48B.3 is old and not good. SuggestedRemedy Use the methodology of jitter measurement described in 92.8.3.8 which uses PRBS9. Proposed Response Response Status Z REJECT. This comment was WITHDRAWN by the commenter.	Comment Type T Comment Status A Subclause 130.7.1.11 appears incomplete. Voltages v1-v4 and ratio Rpre are defined but no values are specified for the PMD in Clause 130. PICS item TC21 however defines this as a mandatory feature which seems inconsistent. SuggestedRemedy I'm not sure of the original intent of this subclause. Perhaps the entire subclause should be moved to Annex 130A where the value for Rpre is defined. Response Response Status C ACCEPT IN PRINCIPLE. Acception C
2/130 SC 130.7.1.10 P 145 L 1 # 317	Same as #317.
Donahue, Curtis UNH-IOL Comment Type TR Comment Status A	C/ 130 SC 130.7.1.11 P 145 L 25 # 252 Healey, Adam Broadcom Ltd. Broadcom Ltd. <td< td=""></td<>
130.7.1.10 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. SuggestedRemedy Add electrical requirements involving the test pattern voltages, similar to those found in	Comment TypeTRComment StatusAA procedure for the measurement of v1, v2, v3, and v4 (and Rpre) is provided but no requirements on the values of v1, v2, v3, and v4 (and Rpre) are given.SuggestedRemedy
72.7.1.11.	Include the requirements or, if there are no requirements, remove the subclause.
Response Response Status W ACCEPT IN PRINCIPLE.	Response Response Status C ACCEPT IN PRINCIPLE.
In Table 130-4 add a new row above Common-mode voltage limits that says: Pre-cursor ratio (Rpre) [column 1] 130.7.1.11 [column 2]	See comment #317. This was approved 6 Yes, 0 No, 0 Abstain.
with a value of 1.25 +/- 0.05 [column 3] [nothing in column 4]	C/ 130 SC 130.7.1.11 P 145 L 29 # 206
See file http://www.ieee802.org/3/cb/public/sep16/patra_3cb_01_0916_Tx_waveform.pdf	Comment Type ER Comment Status A Figure 130-7 has a shadowing feature enabled that reduces readability.
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. The	SuggestedRemedy Remove shadowing.
Rpre requirements are shown in Table 130-4.	Response Response Status W ACCEPT. [Editor's note: this figure is an imported graphic that must be corrected outside 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 C/ 130 SC 130.7.1.11 SORT ORDER: Clause, Subclause, page, line

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C/ 130 SC 130.7.1.11 P 145 L 52 # 208 Lusted, Kent Intel Intel	C/ 130 SC 130.7.1.11 P 146 L 2 # 193 Hidaka, Yasuo Fujitsu Lab of America Fujits
Comment Type TR Comment Status A For v1 and v3, the average voltage in the interval t1 to t2-T includes the shoulder rise time of the waveform. this artificially reduces the measured voltage from the true amplitude of the waveform at the midpoint. SuggestedRemedy consider defining a window in the flat portion of the waveform, away from the rise and falling edges, as the steady state voltage. see figure 72-12 for inspiration.	Comment Type TR Comment Status A v3 is defined as the average voltage in the interval t2 to t3-T, but t2 is in the middle of falling edge. SuggestedRemedy Define v3 as the average voltage in the interval t2+2T to t3-T. Response Response Status C ACCEPT IN PRINCIPLE.
Response Response Status W	Define v3 as the average voltage in the interval t2+2T to t3-2T.
ACCEPT IN PRINCIPLE. See comments #192 and #193	CI 130 SC 130.7.1.11 P 146 L 8 # 207 Lusted, Kent Intel
[Editor's note: this figure is an imported graphic that must be corrected outside of Framemaker.]	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.
C/ 130 SC 130.7.1.11 P 145 L 53 # 192 Hidaka, Yasuo Fujitsu Lab of America	SuggestedRemedy
Comment Type TR Comment Status A v1 is defined as the average voltage in the interval t1 to t1-2T, but t1 is in the middle of the rising edge.	Set a value for Rpre. Define the min and max value of Rpre Add relevant PICS entry.
SuggestedRemedy	Response Response Status W
Define v1 as the average voltage in the interval t1+2T to t2-T. Response Response Status C ACCEPT IN PRINCIPLE. Define v1 as the average voltage in the interval t1+2T to t2-2T.	ACCEPT IN PRINCIPLE. See comment #317 for first part 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: Feature: Pre-cursor ratio
	Subclause: 130.7.1.11 Value/Comment: as specified in Table 130-4 Status: M Support: Yes []

C/ 130 SC 130.7.1.11 Page 66 of 76 11/10/2016 5:12:57 PM

C/ 130 SC 130.8 P 148 L 10 # 271 Healey, Adam Broadcom Ltd. Broa	C/ 130 SC 130.10.4.4 P 152 L 14 # 146 Smith, Daniel Seagate
Comment Type TR Comment Status A The interconnect characterstics are not defined in Annex 130B.	Comment Type TR Comment Status A change to be a "maximum"
SuggestedRemedy Change the reference to Annex 128C. Response Response Status C	SuggestedRemedy Value/Comment column should read: Less than or equal to 30 mV Response Response Status C
ACCEPT.	ACCEPT.
CI 130 SC 130.10.4.2 P 150 L 53 # 7 Laubach, Mark Broadcom Limited Broadcom Limited F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F F	Maximum transmitter differential peak-to-peak voltage when TX disabled should read in the Value column:
The bottom horizontal line of the table is missing. It needs to be there.	30 mV
SuggestedRemedy As per comment.	Cl 130 SC 130.10.4.4 P 152 L 24 # 147
Response Response Status C ACCEPT.	Smith, Daniel Seagate Comment Type TR Comment Status D _ change to be a "maximum"
C/ 130 SC 130.10.4.4 P 152 L 11 # 145 Smith, Daniel Seagate Comment Type TR Comment Status	SuggestedRemedy Value/Comment column should read: Less than or equal to 30 mV within 500 ns of tx_quiet
change to be a "maximum"	Proposed Response Response Status Z
SuggestedRemedy Value/Comment column should read: Less than or equal to 1200 mV for a 1010 pattern	REJECT. This comment was WITHDRAWN by the commenter.
Response Response Status C ACCEPT IN PRINCIPLE.	C/ 130A SC P 201 L 6 # 318 Donahue, Curtis UNH-IOL
The voltage is a 'maximum'. Change text in Value column to read: 1200 mV for a 1010 pattern	Comment Type E Comment Status A Annex title is "5Gb/s Storage Enclosure Interface".
	"5Gb/s" in 130A.4 title too.
	SuggestedRemedy Change "5Gb/s" to 5 Gb/s" in both titles.
	Response Response Status C ACCEPT.
TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open V	

SORT ORDER: Clause, Subclause, page, line

C/ 130A Anslow, Pete		130A		P 201 ena	L 6	# 70
Comment Ty		Е	Comment Stat			
	•	_	Sb/s" (there is alwa		e between a num	ber and its unit.)
SuggestedR Change			Gb/s" here and on	page 218	lines 2 and 36	
Response ACCEP ⁻	Г.		Response Stat	us C		
C/ 130A	SC	130A.1		P 201	L 13	# 261
Healey, Ada	m		Br	oadcom Lt	d.	
Comment Ty	'pe	TR	Comment Stat	us A		
clear. If i associat	it is r ed w	ot correct ith is uncl	text and/or test po t, then the relation ear. Is this Annex	ship betwe	en this interface	odified to make this and clause it is rent PMD?
SuggestedR			hatween a ECRA	ר אס סא	D and the ECCE	I
Response	ie re	auonsnip	between a 5GBA		D and the SGSE	I.
•	ΓΙΝΙ	PRINCIPL	Response Stat	us C		
Same re	solut	tion as co	mment #255 but f	or Annex 1	30A.	
C/ 130A	SC	130A.1		P 202	L 3	# 87
Calbone, An	thony	1	Se	agate		
Comment Ty The Figu	•	E 30A-2 refe	Comment Stat			
SuggestedR Change		<i>dy</i> \-2 to 130	A-3.			

Response Response Status C ACCEPT.

<i>Cl</i> 130A Healey, Ada	SC 130A.1 am	P 202 Broadcom Ltd.	L 7	# 262
0	51	Comment Status A est point adjacent to the PMD nich is correct?	transmit func	tion is TP0 but here it
Suggestedl	Remedy			

Include the TX PCB before TP0 or change the test point to TP1.

Response Response Status C

ACCEPT IN PRINCIPLE.

Fix figure 130A-1 to show the 2nd reference to TP1 as TP0 and elongate the path to make it look differrent.

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.1	P 202	L 14	# 263
Healey, Adam	Broadcom Ltd.		

Comment Type TR Comment Status A

Why 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.

SuggestedRemedy

Clarify the difference between the diagrams in Figure 130A-2.

Response Response Status C

ACCEPT IN PRINCIPLE.

Fix figure 130A-2 to show the 2nd reference to TP1 as TP0 and elongate the path to make it look differrent.

Refer to:

calbone_3cb_01_0916.pdf posted on Public page for Sept Interim.

[Editor's note: file located at http://www.ieee802.org/3/cb/public/sep16/index.html]

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.1 Page 68 of 76 11/10/2016 5:12:57 PM

C/ 130A SC 130A.1.1 Smith, Daniel	P 203 Seagate	L 29	# 149	C/ 130A SC 130A.3.1 Hajduczenia, Marek	P 206 Charter Comm	L 1 nunicatio	# 30
<i>Comment Type</i> TR change to be a "maxim	Comment Status D			Comment Type E Subclause reference col	Comment Status A umn is empty		
SuggestedRemedy Value/Comment colum		40.40		SuggestedRemedy Please insert references	in Subclause reference colu	umn	
Proposed Response REJECT.	R) shall be less than or equal to <i>Response Status</i> Z	0 10-12 with any	errors	Response ACCEPT.	Response Status C		
	THDRAWN by the commenter	r.		See file http://www.ieee802.org/3	3/cb/public/nov16/smith_3cb	_02_1116_com	nment_30.pdf
	P 204 Broadcom Lim	L 10	# 10	Cl 130A SC 130A.3.1 Calbone, Anthony	P 206 Seagate	L 7	# 89
Comment Type E Line 10 and 25. Text is collision.	Comment Status A running into lines. Maintain s	slightly larger vis	ual separation to avoid	The Units column is not SuggestedRemedy	wide enough for the title Uni	ts, so the "s" is	s on a second line.
				Widen Units column so	the whole word fits into one I	ine.	
Almost same for Figure	e 130A–5 on Page 205.			Widen Units column so t Response ACCEPT.	the whole word fits into one I Response Status C	ine.	
Almost same for Figure SuggestedRemedy As per comment.	e 130A–5 on Page 205. Response Status C			Response		<i>L</i> 9	# 234
Almost same for Figure SuggestedRemedy As per comment. Response ACCEPT. Cl 130A SC 130A.2	, , , , , , , , , , , , , , , , , , ,	L 20	# 265	Response ACCEPT. C/ 130A SC 130A.3.1	Response Status C P 206 GlobalFoundri Comment Status A	<i>L</i> 9	# <mark>234</mark>
Almost same for Figure SuggestedRemedy As per comment. Response ACCEPT.	Response Status C		# 265	Response ACCEPT. Cl 130A SC 130A.3.1 Ewen, John Comment Type E Table 130A-1 is missing SuggestedRemedy	Response Status C P 206 GlobalFoundrie Comment Status A subclause references	<i>L</i> 9	# 234
Almost same for Figure SuggestedRemedy As per comment. Response ACCEPT. Cl 130A SC 130A.2 Healey, Adam Comment Type TR In the second part of th be TP5H-D. the test po	Response Status C P 205 Broadcom Ltd.	nt at the PMD re	ceiver function should H-D, the "Tx PCB"	Response ACCEPT. C/ 130A SC 130A.3.1 Ewen, John Comment Type E Table 130A-1 is missing	Response Status C P 206 GlobalFoundrid Comment Status A subclause references nces Response Status C	<i>L</i> 9	# 234
Almost same for Figure SuggestedRemedy As per comment. Response ACCEPT. Cl 130A SC 130A.2 Healey, Adam Comment Type TR In the second part of th be TP5H-D. the test po	Response Status C P 205 Broadcom Ltd. Comment Status A ne figure, it seems the test poi pint at the connection interface nd the AC coupling capacitors	nt at the PMD re	ceiver function should H-D, the "Tx PCB"	Response ACCEPT. Cl 130A SC 130A.3.1 Ewen, John Comment Type E Table 130A-1 is missing SuggestedRemedy Insert appropriate refere Response ACCEPT IN PRINCIPLE See file	Response Status C P 206 GlobalFoundrid Comment Status A subclause references nces Response Status C	<i>L</i> 9 es	

C/ 130A SC 130A.3.1 Page 69 of 76 11/10/2016 5:12:57 PM

Cl 130A SC 130A.3.1 Donahue, Curtis	<i>P</i> 206 UNH-IOL	L 9	# 319	C/ 130A SC 130A.3.1 Calbone, Anthony	P 206 Seagate	L 9	# 88
Comment Type E Remove the striked out	Comment Status A text "per lane (range)".			Comment Type E Comm Text is crossed out in the signali	nent Status A ng rate parameter		
SuggestedRemedy See comment.				SuggestedRemedy Remove the "per lane (range)" to	ext that is crossed of	ut.	
Response ACCEPT IN PRINCIPLI [Editor's note: duplicate				Response Respon ACCEPT. [Editor's note: duplicate of #23.]	nse Status C		
C/ 130A SC 130A.3.1 Healey, Adam	P 206 Broadcom Ltd	L 9	# <u>2</u> 66	C/ 130A SC 130A.3.1 Calbone, Anthony	P 206 Seagate	L 10	# 91
phrase "per lane (range	Comment Status A ce" column of Table 130A-1 " in the signaling rate row is			Comment Type E Comn There is no subclause reference SuggestedRemedy	nent Status A		
SuggestedRemedy	in and correct the formatting	orror		Add 130A.3.1.2 to DC CMV Sub	clause reference		
Response ACCEPT IN PRINCIPL	Response Status C	enor.		Response Respon ACCEPT.	nse Status C		
Same as comment #63				C/ 130A SC 130A.3.1 Calbone, Anthony	P 206 Seagate	L 12	# 92
Fill in blank columns with http://www.ieee802.org/	h information from: 3/cb/public/nov16/smith_3cb	_02_1116_com	ment_30.pdf	Comment Type E Comm There is no subclause reference	nent Status A		
Cl 130A SC 130A.3.1 Calbone, Anthony	P 206 Seagate	L 9	# 90	SuggestedRemedy Add 130A.3.1.2 to AC CMV Sub	clause reference		
Comment Type E There is no subclause r	Comment Status A eference			Response Respon ACCEPT.	nse Status C		
SuggestedRemedy Add 130A.3.1.1 to signa	ling rate Subclause referenc	e		Cl 130A SC 130A.3.1 Calbone, Anthony	P 206 Seagate	L 14	# 93
Response ACCEPT.	Response Status C			Comment Type E Comm There is no subclause reference	nent Status A		
				SuggestedRemedy Add 130A.3.1.2 to pk-pk transm	itter disabled Subcla	use reference	
				Response Respon ACCEPT.	nse Status C		

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SC 130A.3.1 11/10/2016 5:12:57 PM SORT ORDER: Clause, Subclause, page, line

Cl 130A SC 130A.3.1 Calbone, Anthony	<i>P</i> 206 Seagate	L 15	# 94	C/ 130A SC 130A.3.1 P 206 L 21 # 9 Calbone, Anthony Seagate	7			
Comment Type E There is no subclause re	Comment Status A eference			Comment Type E Comment Status A There is no subclause reference				
SuggestedRemedy Add 130A.3.1.2 to pk-pk	< transmitter enabled Subcla	use reference		SuggestedRemedy Add 130A.3.1.4.2 to vf(min) Subclause reference				
Response ACCEPT.	Response Status C			Response Response Status C ACCEPT.				
C/ 130A SC 130A.3.1 Calbone, Anthony	P 206 Seagate	L 17	# 95	C/ 130A SC 130A.3.1 P 206 L 21 # 9 Calbone, Anthony Seagate	8			
Comment Type E There is no subclause re	Comment Status A eference			Comment Type E Comment Status A There is no subclause reference				
SuggestedRemedy Add 130A.3.1.3 to return	n loss Subclause reference			SuggestedRemedy Add 130A.3.1.4.2 linear fit pulse peak (min) Subclause reference				
Response ACCEPT.	Response Status C			Response Response Status C ACCEPT.				
Cl 130A SC 130A.3.1 Calbone, Anthony	P 206 Seagate	L 20	# 96	C/ 130A SC 130A.3.1 P 206 L 24 # 9 Calbone, Anthony Seagate	9			
Comment Type E There is no subclause re	Comment Status A eference			Comment Type E Comment Status A There is no subclause reference				
SuggestedRemedy Add 130A.3.1.4.2 to vf(r	max) Subclause reference			SuggestedRemedy Add 130A.3.1.6 to all Jitter Subclause references				
Response ACCEPT.	Response Status C			Response Response Status C ACCEPT.				
C/ 130A SC 130A.3.1 Calbone, Anthony	P 206 Seagate	L 20	# 101	C/ 130A SC 130A.3.1 P 206 L 28 # 1 Calbone, Anthony Seagate	00			
Comment Type E The mV units are slightl	Comment Status A y off of the Values			Comment Type E Comment Status A There is no subclause reference				
SuggestedRemedy Move the mV's down a l	bit			SuggestedRemedy Add 130A.3.1.7 to txsndr Subclause reference				
Response ACCEPT.	Response Status C			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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C/ 130A SC 130A.3.1.1 Hajduczenia, Marek	P 206 Charter Commu	L 37 unicatio	# 31	C/ 130A SC 130A.3.1.4.1 P 208 L 48 # Hidaka, Yasuo Fujitsu Lab of America	197
Comment Type E Comment Odd dash over "93" in 192.93 ps stat				Comment Type TR Comment Status A The linear pulse fitting procedure in 94.3.12.5.2 is for PAM4 signal, and PRB PAM4 test pattern.	S13Q is a
SuggestedRemedy Make sure dash is removed				SuggestedRemedy	
Response Response S	Status C			Use the linear pulse fitting procedure for NRZ that is described in 92.8.3.5.1 PRBS9 test pattern.	and use
ACCEPT. 	P 206	L 37	# 130	Response Response Status C ACCEPT IN PRINCIPLE.	
Smith, Daniel	Seagate	L 31	# 130	Change is similar to comment #267.	
Comment Type ER Comment - Overbar on the decimal 193.93	Status A			Cl 130A SC 130A.3.1.4.1 P 208 L 50 # Ewen, John GlobalFoundries	± 239
SuggestedRemedy remove the overbar				Comment Type T Comment Status A Why is a PAM4 pattern used for the linear fit pulse response when normal op	peration use
Response Response S ACCEPT.	Status C			NRZ? Also the reference to 120.5.10.2.3 appears incorrect. SuggestedRemedy	
	D 000	1 40	# 007	Use a PRBS9 test pattern for the linear pulse fit as specified in 120.5.11.1.2	
C/ 130A SC 130A.3.1.4.1 Healey, Adam	P 208 Broadcom Ltd.	L 48	# 267	Response Response Status C	
				ACCEPT IN PRINCIPLE.	
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				See comment #267.	
issue with 130A.3.3.1.				CI 130A SC 130A.3.1.4.2 P 209 L 1 #	[‡] 102
SuggestedRemedy				Calbone, Anthony Seagate	
Change the reference to 92.8.3.5 or a that 92.8.3.5 specified the use of PR be required in this case.				Comment Type E Comment Status A The is not a period after the 1st sentence.	
Response Response S	Status C			SuggestedRemedy	
ACCEPT IN PRINCIPLE.				Add a period after 130A.3.1.4.1.	
Replace the paragraph with the text b The linear fit pulse response is chara with the exception that the measuren =8.	cterized using th			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

C/ 130A SC 130A.3.1.4.2 Page 72 of 76 11/10/2016 5:12:57 PM

C/ 130A SC 130A.3.1.4.2 P 209 L 2 # 268 Healey, Adam Broadcom Ltd. Broadcom Ltd.	C/ 130A SC 130A.3.2 P 209 L 40 # 103 Calbone, Anthony Seagate
Comment Type T Comment Status A 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 parameters defined in this subclause. It is not necessary to state the requirements again. SuggestedRemedy	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.
Remove the last two sentences from this subclause. Note similar issues in 130A.3.1.6, 130A.3.1.7, 130A.3.3.2, and 130A.3.3.3.	Response Response Status C ACCEPT.
Response Response Status C ACCEPT IN PRINCIPLE.	C/ 130A SC 130A.3.2.2 P 209 L 53 # 11 Laubach, Mark Broadcom Limited Image: Comparison of the second
[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 128A.3.3.3.	Comment Type E Comment Status A Orphan subtitle. Keep with next few lines.
See file http://www.ieee802.org/3/cb/public/nov16/mcmillan_3cb_01_1116_Annexes_128A&130AM arkedUp.pdf	SuggestedRemedy As per comment.
P 209 L 16 # 275 Iealey, Adam Broadcom Ltd.	Response Response Status C ACCEPT.
Comment Type T Comment Status A 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.	CI 130A SC 130A.3.2.2 P 211 L 13 # 12 Laubach, Mark Broadcom Limited Image: Comment Type E Comment Status A Right side of box is missing. Fix. Fix. Image: Comment Status
uggestedRemedy Check the jitter math. Note that DCD is considered a component of deterministic jitter as stated in 128A.3.1.6.	SuggestedRemedy As per comment.
esponse Response Status C ACCEPT IN PRINCIPLE.	Response Response Status C ACCEPT.
In Table 130A-1: Change maximum Tj to 0.27 UI.	C/ 130A SC 130A.3.2.3 P 211 L 35 # 104 Calbone, Anthony Seagate
See file http://www.ieee802.org/3/cb/public/sep16/patra_3cb_01_0916_Jitter_number.pdf	Comment Type E Comment Status A The reference to Table 130A-10
Change "Duty Cycle Distortion" line by indenting it and changing text to: Duty Cycle Distortion (included in Dj)	SuggestedRemedy Change Table 130A-10 to Figure 130A-10
	Response Response Status C ACCEPT.

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 C/ 13

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 SC 13

 SORT ORDER: Clause, Subclause, page, line
 C/
 C// 13

C/ 130A SC 130A.3.2.3 Page 73 of 76 11/10/2016 5:12:57 PM

C/ 130ASC 130A.3.3P 213L 9Calbone, AnthonySeagate	# 106	C/ 130A SC 130A.3.3.1 P 213 L 39 # 198 Hidaka, Yasuo Fujitsu Lab of America
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 TR 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.
SuggestedRemedy Widen Units column so the whole word fits into one line.		SuggestedRemedy
Response Response Status C		Use the linear pulse fitting procedure for NRZ that is described in 92.8.3.5.1 and use PRBS9 test pattern.
ACCEPT.		Response Response Status C
C/ 130ASC 130A.3.3P 213L 30Calbone, AnthonySeagate	# 105	ACCEPT IN PRINCIPLE. Change is similar to comment #267.
Comment Type E Comment Status A The Subclause reference is incorrect		C/ 130A SC 130A.3.3.1 P 213 L 41 # 240 Ewen, John GlobalFoundries
SuggestedRemedy Change the txsndr reference to 130A.3.3.3 Response Response Status C		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.
ACCEPT IN PRINCIPLE. [Editor's note: where is 'txsndr' in the table? Signal-to-noise-and-distortion ratio (min)]		SuggestedRemedy Use a PRBS9 test pattern for the linear pulse fit as specified in 120.5.11.1.2
C/ 130A SC 130A.3.3.1 P 213 L 24 Ewen, John GlobalFoundries	# 242	Response Response Status C ACCEPT IN PRINCIPLE.
Comment Type E Comment Status A		See comment #267.
Table 130A-6 The subclause reference for Pre-cursor ratio is incorrect. SuggestedRemedy		C/ 130A SC 130A.3.3.2 P 213 L 46 # 107 Calbone, Anthony Seagate
Refer to 130.7.1.11 or update 130A.3.3.1 to define pre-cursor ratio.		Comment Type E Comment Status A
Response Response Status C		There is an extra parenthesis around p(k)
ACCEPT.		SuggestedRemedy
Reference changed to 130.7.1.11		Remove the extra parathesis. Change p(k)) to p(k).
		Response Response Status C ACCEPT.

C/ 130A SC 130A.3.3.2 Page 74 of 76 11/10/2016 5:12:57 PM

C/ 130A SC 130A.3.4 P 214 Calbone, Anthony Seagate	L 10	# 108	C/ 130B SC 130B D'Ambrosia, John	Р 221 Futurewei, St	L 5 ubsidiary	# 119
Comment Type E Comment Status A The Units column is not wide enough for the title	e Units, so the "s" is	on a second line.	Comment Type ER	Comment Status A a duplication of Annex 69B	,	on should be avoided.
SuggestedRemedy Widen Units column so the whole word fits into Response Response Status C ACCEPT.	one line.		5GBASE-KR	odify annex 69B to add in s in annex 12830b, and repla		
C/ 130A SC 130A.3.4 P 214 Laubach, Mark Broadcon	L 10 n Limited	# 13	8	Response Status W		
Comment Type E Comment Status A Adjust column size to avoid breaking "s" of "Uni SuggestedRemedy	ts" onto separate lin	e.	Use solution #1. Delete annex 130B, and	place 5G information into 6	69A.	
As per comment.			C/ 130B SC 130B.1	P 221	L 17	# 320
Response Response Status C ACCEPT.			Donahue, Curtis <i>Comment Type</i> E "Channel".	UNH-IOL Comment Status A		
C/ 130A SC 130A.4.4.3 P 220 Anslow, Pete Ciena	L 19	# 68	SuggestedRemedy Change to "channel" (low	vercase). Also in 128B.1.		
Comment Type E Comment Status A The IEEE style manual says "A multiplication si a multiply sign.	gn (×), not the letter	"x"" should be used for	č	Response Status C		
SuggestedRemedy Replace the "x" with a multiply sign (Ctrl-q 0). Check the draft for other instances.			Cl 130B SC 130B.2.2 Donahue, Curtis	P 222 UNH-IOL	L 35	# 321
Response Response Status C ACCEPT.			Comment Type E "ILTC" should be "IL_TC	Comment Status A "where "_" represents sub	script text.	
			Also in 128B.2.2. SuggestedRemedy Change "ILTC" to IL_TC'	' in both locations.		
				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

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<i>Cl</i> 130B Donahue, C		130B.3	P 2 UNH	2 23 -IOL	L 38	# 322
Comment Ty "2.5GBA		E (X" should	Comment Status be "5GBASE-KR".	Α		
SuggestedR Change		<i>dy</i> GBASE-K	R"			
Response ACCEP	Т.		Response Status	С		
<i>Cl</i> 130B Donahue, C		130B.3	P 2 UNH	2 23 -IOL	L 43	# 323
Comment Ty Looks lil		E s sentence	Comment Status		eference, "in for 5G	BASE-KR".
SuggestedR Change			for 5GBASE-KR."			
Response ACCEP	Т.		Response Status	С		
C/ 344 Law, David	SC	127.2.6.2.	2 P 8 HPE	32	L 2	# 344
	e 127 ead 'i	p_en=0 *		state	diagram' suggest tha from the state TX_T	at 'tx_en=0 * tx_er=0' EST_XMIT to
SuggestedR See con						
Response ACCEP	Т.		Response Status	С		
See file http://ww	vw.ie	ee802.org/	/3/cb/public/nov16/k	(im_3	cb_01_1116.pdf	

C/ 344 SC 127.2.6.2.2