C/ 127 SC	C 127.2.6.2.	1	P 85	L 8	# <u>i-</u> 1	C/ FM	SC	FM	P 1	L 4	# <u>i-</u> 2
aw, David		ŀ	Hewlett Packa	ard Enter		Anslow, Po	eter		Ciena Corpo	oration	
Comment Type TR Comment Status A **** Comment submitted with the file 93380900003-Figure_127_4_comment There are two issues caused by the asynchronous reset used for the Figure Word Encode and Word-to-Octets' and Figure 127-5 'PCS transmit ordered diagrams. The first is that, depending on the relationship between reset ren edge of TX_CLK, and the pulse high time of TX_CLK, the data output by th Encode process may be in the incorrect order. The second is that reset ren transmission of packet can result in the transmission of a truncated packet. attached file Figure_127_4_comment.pdf for more details. SuggestedRemedy Please see attached file Figure_127_4_comment.pdf and for more details. Response Response Status C ACCEPT.		e Figure 127-4 'PCS ordered set' state eset removal, the rising ut by the PCS Word eset removal during packet. Please see	Comment IEEE annou IEEE IEEE Suggestee Chang Page Page Page Chang " IEE 20xx, On pa Move chang em-da Remo In the Add th	Comment Type E Comment S IEEE Std 802.3-2015/Cor 1 was publia announced the assumed approval ord IEEE P802.3bs - Amendment 10 IEEE P802.3bs - Amendment 10 IEEE P802.3cc - Amendment 11 IEEE P802.3cb - Amendment 11 IEEE P802.3cb - Amendment 12 SuggestedRemedy Change "Amendment:" to "Amendment Page 1, line 14 Page 11, line 3 Page 27, line 4 Change the list of amendments on Pather 1. IEEE Std 802.3bvTM-2017, IEEE IEEE Std 802.3-2015/Cor 1-20xxt" to: " IEEE Std 802.3bvTM-2017, IEEE 20xx, and IEEE Std 802.3bvTM-2017, IEEE 20xx, and IEEE Std 802.3ccTM-20xxt" On page 13: Move the summary for Corrigendum 7 change the date to 2017 and replace em-dash" Remove the summary for 802.3bt In the summary for 802.3bt		Comment Status A /Cor 1 was published in 2017 ned approval order for the ne endment 10 endment 11 endment 12 ::" to "Amendment 12:" on: :" to "Amend	' and The Workin xt three amendm ind line 32 from: M-20xx, IEEE St 115/Cor 1-2017, If diately after the s n 1 space - space after 802.3bs and	d 802.3bsTM-20xx, EEE Std 802.3bsTM- ummary for 802.3bv, " with "Corrigendum before 802.3cb			
		Response ACCE C/ FM Anslow, Pe	PT.	FM	Response Status C	L 35	# [i-3				
		Anslow, Peter Ciena Corporation Comment Type E Comment Status A "Working Group recirculation ballot." should be "Sponsor ballot recirculation"									
						Suggested Chang		-	oup recirculation ballot." to "S	ponsor ballot rec	irculation"

IEEE P802.3cb D3.0 2.5 Gb/s and 5 Gb/s Op	eration over Backplane Initial Sponsor ballot comments
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C/FM SC FM	P 3	L 2	# i-4	C/ 1 SC 1	P 28	L 3	# i <u>-</u> 7			
Anslow, Peter	Ciena Corpor	ation		Anslow, Peter	Ciena Corpor	ration				
Comment Type E	Comment Status A			Comment Type E	Comment Status A					
http://www.ieee802.org Physical Layer (always	g/3/WG_tools/editorial/require s capped)	ements/words.ht	ml includes:	The Working Group Cha three amendments as: IEEE P802.3bs - Amend	air has now announced the	assumed approv	al order for the next			
SuggestedRemedy Change "physical laye	r" to "Physical Layer"			IEEE P802.30S - Americ IEEE P802.3cc - Americ IEEE P802.3cb - Americ	dment 11					
Response	Response Status C			SuggestedRemedy						
ACCEPT.				Remove the editor's not of the draft.	e and take account of this a	assumed approv	al order through the rest			
C/ FM SC FM Anslow, Peter	P 6 Ciena Corpor	L 3 ation	# i-5	Response ACCEPT.	Response Status C					
Comment Type E The spelling of "Implei	Comment Status A mentors" does not match the	spelling in the 8	02.3 template.	C/ 1 SC 1.4.107	P 29	L 3	# [i-8			
SuggestedRemedy				Anslow, Peter	Ciena Corpor	ration				
Change Implementors	" to "Implementers"			Comment Type E	Comment Status A					
Response ACCEPT.	Response Status C			The Working Group Cha three amendments as: IEEE P802.3bs - Ameno IEEE P802.3cc - Ameno		assumed approv	al order for the next			
C/FM SC FM	P 11	L 3	# i-6	IEEE P802.3cb - Ameno						
Anslow, Peter	Ciena Corpor	ation		SuggestedRemedy						
Comment Type E "IEEE P802.3cb-20xx"					Remove the editor's note. Change the editing instruction to: "Change 1.4.107 (as modified by IEEE Std 802.3bs-20) as follows:"					
SuggestedRemedy					f the definition to that of P80)2.3bs.				
Change "IEEE P802.3	cb-20xx" to "IEEE Std 802.3c	:b-20xx"		Response	Response Status C					
Response ACCEPT.	Response Status C			ACCEPT.						

C/ 45 SC 45.2.1	1.6 P 33	L 41	# i <u>-</u> 9	C/ 128	SC 128.7.1	.6	P 113	L 27	# <u>i-</u> 11
Anslow, Peter	Ciena Corpo	ration		Anslow, Pe	eter		Ciena Corpor	ation	
Comment Type E	Comment Status A			Comment	Туре Е	Comment	Status A		
0 1 1 1 1 0 0 = rese		2.3bs contains:				org/3/WG_tools/ n used as an ac		ements/words.htr	nl includes:
0 1 1 1 0 1 1 = rese	erved ee802.org/3/WG_tools/editorial/	requirements/wor	ds.html.includes:	Suggested	Remedy				
"The editing instruc	tions list only amendment(s) that ubclause being changed." and 8	at have edited the	e specific part (e.g.	Page 1	e "common m 13, lines 27 a 14, line 24	ode" to "commo nd 41	on-mode":		
SuggestedRemedy					22, line 11				
Change the editing		. .		Page 1	45, line 2				
	ption for bits 1.7.6:0 in Table 45 nchanged rows not shown):"	b-7 (as modified b	y IEEE Std 802.3bs-	Response		Response	Status C		
Response	Response Status C			ACCEI	PT.				
ACCEPT.				C/ 128	SC 128.7.1	.8	P 114	L 39	# i-12
00 407 407 4	0 D.05	1.00	"	Anslow, Pe	eter		Ciena Corpor	ation	
C/ 127 SC 127.1 Anslow, Peter	.6 P 65 Ciena Corpo	L 29	# i-10	Comment	Туре Е	Comment	Status A		
Comment Type E	Comment Status A	lation		http://www.ieee802.org/3/WG_tools/editorial/requirements/words.html includes:					
51	poor English. Recent amendm	ents have used "	comprises" instead		quency				
	4.1.5, 77.1.5, and 103.1.4.			Suggested	-				
SuggestedRemedy				0	e "low frequer	ncy" to "low-freq			
	of this standard is comprised of s state diagrams," ange in 127.2.6	state diagrams,	" to "The body of this	Response ACCEI	PT.	Response	Status C		
Response	Response Status C			C/ 128A	SC 128A.3	.1.5	P 174	L 47	# <u>i-13</u>
ACCEPT.				Anslow, Pe	eter		Ciena Corpor	ation	
				Comment	Type E	Comment	Status A		
						st P802.3bx D3 the 802.3-2015		nstances of "AC	coupled" to "AC-
				Suggested	Remedy				
				Chang	e "AC coupled	d" to "AC-couple	ed" page 174, lir	ne 47 and Page 2	215, line 12.
				Response		Response	Status C		
				ACCEI	PT.				

C/ 130A SC 130A.6.3	P 225	L 10	# i <u>-</u> 14	C/ 127 SC 127	.2.6.2.4	P 92	L 5	# <u>i-</u> 17		
Smith, Daniel	Seagate Technol	ogy L		Law, David		Hewlett Pack	kard Enter			
Comment Type E	Comment Status A			Comment Type T	R (Comment Status A				
Tt set to 42 ps for 5G," doe understood to be 5 Gbps.	es not need to be stated as 5	G because this	s entire subclause is				0	comment.pdf attached ***		
SuggestedRemedy						ient Ethernet is support I enter the RX_K state s				
Change " Tt set to 42 ps fo	r 5G," to "Tt set to 42 ps,".			ordered set is als	so K28.5. I	t will then transition thro	ugh the RX_SL	EEP and		
Response R ACCEPT.	esponse Status C			second characte LPI_K state, ente	r of the /Ll, ered when	[/] ordered set, is receive a K28.5 character is rec	d. It will then tra ceived, and the			
Cl 128A SC 128A.3.4.3 Smith, Daniel	P 185 Seagate Technol	<i>L</i> 26 ogy L	# [i-15	LPI_K state, entered when a K28.5 character is received, and the LP_IDLE_I entered when a D6.5 or D26.4 character is received. It however is only on entry to the RX_SLEEP state that rp_dv is set to zero, ro one, and rpd is set to 0x01, signalling LPI on the 2.5GPII receive path. Since						
	Comment Status A name above the Termination	box.			r of the /Ll	ordered set, the first o				
SuggestedRemedy On the left side of Figure 128A-11, left side, above Termination box: TP1H-D s/b TP1D-H.				Similarly, at the end of /LI/ on the transition to /I/, the Figure 128-8 state diagram will still enter the LPI_K state since the first character of the /I/ ordered set is K28.5, and only transition to the IDLE_D state when the D5.6 or D16.2 character, the second character of the /I/ ordered set, is received.						
Response R	esponse Status C			the /1/ ordered se	et, is receiv	ea.				
ACCEPT.						the first character beir				
Cl 130A SC 130A.6.3 Smith, Daniel	P 226 Seagate Technol	L 26 ogy L	# i-16	2.5GPII, will not maintain alignment, as there will be an odd number of Idle from th the previous packet. As a result of the subclause 127.2.4.4 rules, specifically item Deficit Idle Count will have to be adjusted.						
	Comment Status A name above the Termination	box.		While there is no function impact it is not in agreement with the statement that ' in a properly behaved system, deletion of idle symbols from rpd<7:0> onto wd_rpd<31:0> should only occur at most once at the beginning of link, and afterwards no further						
SuggestedRemedy In Fig 130A-12, left side,at	ove Termination box: TP3H-	D s/b TP1D-ł	4.			required.' found in the p				
	esponse Status C			SuggestedRemedy						
Response R				See attached do	cument <f< td=""><td>igure_127_8_comment</td><td>.pdf>.</td><td></td></f<>	igure_127_8_comment	.pdf>.			
Response R ACCEPT.										

CI 1 SC 1.4 P 28 L0 # 18 BUCANEG, DEMETRIO JR Hawaiian Electric Com Hawaiian Electric Com Comment Type E Comment Status A Instruction is to insert before 1.4.74a* and the insertion is numbered "1.4.74as 2.5GBASE-KR.K (1* Hould be numbered "1.4.74a* instead") Cl 127 SC 127 P 63 L5 # 1/21 Suggested/Remedy As cited in the 'Comment 'Status A Minor edit to coordinate with 'page 31, line 20' insertion as shown. Suggested/Remedy As cited in the 'Comment 'status R R Minor edit to coordinate with 'page 31, line 20' insertion as shown. COCEPT. CI 125 SC 125.3 P 62 L 34 # 1/19 DUCANEG, DEMETRIO JR Hawaiian Electric Com Comment Type ER Comment Type Comment Type Comment Type ER								
Comment Type E Comment Status A Instruction is to insert Status A Instruction is to insert Status A Instruction is to insert Status A SuggestedRemedy As cited in the Comment' column. Response Response Status C	C/ 1 SC 1.4	P 28	L 20	# i-18	C/ 127 SC 127	P 63	L 5	# <u>i-</u> 21
Instruction is to insert before 1.4.74a and the insertion is numbered "1.4.74a 2.5GBASE-KC.KC" Minor edit to coordinate with 'page 31, line 20' insertion as shown. KC" It should be numbered "1.4.74a" ince it is before '1.4.74a" instead? Suggested/Remedy As cited in the 'Comment' column. Response Status C ACCEPT. C125 SC 125.3 P62 L34 # [19] CMAREG, DEMETRIO JR Hawaiian Electric Com Comment Ype TR Comment Status R In Table 125.3", add a note on how the 'Maximum (bit time)' of '1024' for 'Sublayer cases the combination of PMA & PMD like '768 + 256' bit times resepctively. Suggested/Remedy As cited in the 'Comment' column. Response Response Status C REJECT. It is well understood the 2.5GBASE-KR PHY' which is the reader to separate numbers for PMA and PMD. References in the comment column take the reader to separate numbers for PMA and PMD. Monor edit to comment Ype GR Comment Ype GR Comment Ype TR Comment Status A It is well understood the 2.5GBASE-KR PHY is a combination of PMA and PMD. References in the commutate column take the reader to separate numbers for PMA and PMD. Referencedy Sub-Clause '129.7.6.4' is missing. Status A In 'Table 125.3", The 'Maximum bit time' of '1512' for 'Sublayer 50BASE-KR PMD' is not specifically shown in sub-clause '1	BUCANEG, DEMETRIO J	R Hawaiian Ele	ectric Com		BUCANEG, DEMETRIO	JR Hawaiian E	lectric Com	
KK't should be numbered '1.4.74' since it is before '1.4.74a' instead? SuggestedRemedy As cited in the 'Comment' column. Response Response Status C ACCEPT. C1 125 SC 125.3 P62 L 34 JUXCANEG, DEMETRIO JR Hawaiian Electric Com Comment Type TR Comment Type TR Comment Status R In 'Table 125-3', add a note on how the 'Maximum (bit time)' of '1024' for 'Sublayer 2.5GBASE+X PHY' which is the combination of 'PMA & PMD' like '768 + 256' bit times resepocively. Suggested/Remedy As cited in the 'Comment' column. Response Response Response Status C REJECT. It is well understoad the 2.5GBASE-KR PHY is a combination of PMA and PMD. References in the comment column take the reader to separate numbers for PMA and PMD. C1 125 S C 125.3 P62 L 38 SUZANEG, DEMETRIO JR Hawaiian Electric Com Comment Type GR Comment Status A Micro of '512' for 'Sublayer for SGBASE-KR PMD' is not specifically shown in sub-clause i130.4'' as referred. Add bit time. Suggested/Remedy As cited in the 'Comment' column. Response Camment Ty	51							
SuggestedRemedy As cited in the 'Comment' column. Response Response Status C ACCEPT. C1 125 SC 125.3 P 62 L 34 # 1/19 Did Table 125.7: add a note on how the 'Maximum (bit time)' of '1024' for 'Sublayer 2.5GBASE-KX PHY' which is the combination of PMA & PMD' like '766 + 256' bit times resepectively. Response Comment 'Lolumn. SuggestedRemedy As cited in the 'Comment' column. Response Status C RELECT. Tt is well understood the 2.5GBASE-KR PHY is a combination of PMA and PMD. References in the comment column take the reader to separate numbers for PMA and PMD. References in the comment Status A P135 L 48 # 1/±23 SUGANEG, DEMETRIO JR Hawaiian Electric Com Comment Type CR Comment Type CR Comment 'Lolumn. SuggestedRemedy As cited in the 'Comment' column. Response Status C ACCEPT. C1 125 SC 125.3 P 62 L 38 # 1/±20 SUGANEG, DEMETRIO JR Hawaiian Electric Com C1 125 SC 125.3 P 62 L 38 # 1/±20 SUGAREGRemedy' As cited in the 'Comment' Status A In Table 125.7. The 'Maximum (bit time)' of '15/L' for 'Sublayer SGBASE-KR PMD' is not specifically shown in sub-clause '130.4" as referred. Add bit time. SuggestedRemedy' SuggestedRemedy As cited in the 'Comment' column. Response Response Status C AcCEPT.<					Minor edit to coordin	ate with 'page 31, line 20' ins	ertion as shown.	
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Response Response Status C ACCEPT. C1 125 SC 125.3 P 62 L 34 # 1-19 DUCANEG, DEMETRIO JR Hawaiian Electric Com Comment Type TR Comment Status R Hawaiian Electric Com Comment Type TR Comment Status R Minor edit to coordinate with 'page 31, line 25' insertion as shown. SuggestedRemedy As cited in the 'Comment' column. Response Status C Response Response Status C C References in the comment column take the reader to separate numbers for PMA and PMD. References in the comment status A SudcAlEG, DEMETRIO JR Hawaiian Electric Com Contract Type TR Comment Type TR Comment Type TR Comment Type TR Comment Status A Response Response Status C Response Response Status A References in the comment column take the reader to separate numbers for PMA and PMO. Comment Type TR Comment Status A Sub-clause '129.7.6.4 P 135 L 48 UL215 SC 125.3 P 62 L 38 # 1-20 Sub-clause '129.7.6.4' is missing. Suggest renumbering sub-clauses if not existing or adua in the 'comment' status A S	As cited in the 'Comm	ent' column.			Response	Response Status		
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As cited in the 'Comment' column. Response Response Status C REJECT. It is well understood the 2.5GBASE-KR PHY is a combination of PMA and PMD. References in the comment column take the reader to separate numbers for PMA and PMD. CI 125 SC 125.3 P62 L 38 # 1:20 SUCANEG, DEMETRIO JR Hawaiian Electric Com Comment Type TR Comment Status A In "Table 125-3", The "Maximum (bit time)" of "512" for "Sublayer 5GBASE-KR PMD" is not specifically shown in sub-clause "130.4" as referred. Add bit time. SuggestedRemedy As cited in the 'Comment' column. Response Response Status C	SuggestedRemedy				Response	Response Status C		
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References in the comment column take the reader to separate numbers for PMA and PMD. Cl 125 SC 125.3 P 62 L 38 # [-20] BUCANEG, DEMETRIO JR Hawaiian Electric Com Comment Type TR Comment Status A In "Table 125-3", The "Maximum (bit time)" of "512" for "Sublayer 5GBASE-KR PMD" is not specifically shown in sub-clause "130.4" as referred. Add bit time. SuggestedRemedy As cited in the 'Comment' column. Response Response Status C	REJECT.	_						# <u>i-23</u>
BUCANEG, DEMETRIO JR Hawaiian Electric Com As cited in the 'Comment' column. Comment Type TR Comment Status A Response Status C In "Table 125-3", The "Maximum (bit time)" of "512" for "Sublayer 5GBASE-KR PMD" is not specifically shown in sub-clause "130.4" as referred. Add bit time. SuggestedRemedy As cited in the 'Comment' column. Response Response Status C	References in the corr				Sub-clause "129.7.6	.4" is missing. Suggest renur	nbering sub-clause	s if not existing or ad
Comment Type TR Comment Status A Response Response Status C In "Table 125-3", The "Maximum (bit time)" of "512" for "Sublayer 5GBASE-KR PMD" is not specifically shown in sub-clause "130.4" as referred. Add bit time. SuggestedRemedy As cited in the 'Comment' column. Response Response Status C	C/ 125 SC 125.3	P 62	L 38	# i <u>-</u> 20	SuggestedRemedy			
In "Table 125-3", The "Maximum (bit time)" of "512" for "Sublayer 5GBASE-KR PMD" is not appendix a specifically shown in sub-clause "130.4" as referred. Add bit time. SuggestedRemedy As cited in the 'Comment' column. Response Response Status C	UCANEG, DEMETRIO J	R Hawaiian Ele	ectric Com		As cited in the 'Com	ment' column.		
SuggestedRemedy As cited in the 'Comment' column. Response Response Status C	In "Table 125-3", The	"Maximum (bit time)" of "512		GBASE-KR PMD" is not	•	Response Status C		
As cited in the 'Comment' column. Response Response Status C		sub-clause "130.4" as referred	d. Add bit time.					
Response Response Status C	,							
	As cited in the 'Comm	ent' column.						
ACCEPT IN PRINCIPLE.	•							
	ACCEPT IN PRINCIP	LE.						
Use bit time of 1024 from 130.4 text.	Use bit time of 1024 fr	rom 130.4 text.						

CI 69A	SC 69A.2	P 161	L 24	# i-24	C/ 69A	SC 69A.2.2	P 163
Healey, Ad	lam	Broadcom Ltd.			Healey, Ad	dam	Broadcom
Comment		Comment Status A			Comment	51	Comment Status A
transm states contro	hitter control in the that "For 10GB, I.". Wouldn't it b	n Figure 69A-1 and the propose ne latter. The transmitter contro ASE-KR testing, the pattern ger e much simpler to just state at t do not use the transmitter contro	I function is de nerator is cont he end of 69A	efined in 69A.2.4 and rolled by transmitter	warrar 128.7. The te	nted for 2.5GBA 1.2 and 130.7.1 est channel retur	elaxation of the test channed SE-KX and 5GBASE-KR. I.2 are considerably better n loss is intended to be tig measurements.
Suggestea	Remedy				Suggested	dRemedy	
		changes to 69A.2 (including Fi			Remo	ve (or justify) the	e relaxation in the test char
	l is not used."	69A.2.4: "For 2.5GBASE-KX a	na SGBASE-r	R testing, transmitter	Response		Response Status C
Response		Response Status C			ACCE	PT IN PRINCIP	LE.
ACCE	PT.				Chang	ge the test chanr	nel return loss to 20 dB.
CI 69A	SC 69A.3	P 163	L 18	# <u>i-25</u>	C/ 128B	SC 128B	P 189
Healey, Ad	lam	Broadcom Ltd.			Healey, Ad	dam	Broadcom
Comment	Type ER	Comment Status A			Comment	Type TR	Comment Status A
with "F	or 5GBASE-KR	exactly the same thing as the p " instead of "For 2.5GBASE-P ASE-KR testing later in the subc	X". Further	it restates steps that	since we fol conter	the 2.5GBASE-H ded into Annex 6 nt of Annex 128E	s much of the content of A (X and 5GBASE-KR requi 69A rather than creating a 3 was not simply amended ed verbatim with the except
Suggestea	lRemedy						128B.4.2, and 128B.4.4 th
		procedure that appears to be of BASE-KR is the use of transmi		en 2.5GBASE-KX,	inserti		umns and charts specific t n in 128B.4.3.1 and 128B. ason why.
KX tes	ting," and "Fo	e first two paragraphs starting at or 5GBASE-KR testing,"). <do< td=""><td>one></td><td></td><td>Suggested Remo</td><td>dRemedy ve Annex 128B</td><td>and merge the unique con</td></do<>	one>		Suggested Remo	dRemedy ve Annex 128B	and merge the unique con
		graph starting "For 10GBASE-K atterns and transmitter control a				nnex 69B.	
	SE-KR testing.".				Response		Response Status C

Also consider removing the reference "(see Figure 69A-2)" or changing it to "(see Figure 69A-1)" if Figure 69A-2 is removed as part of the response to a separate comment.

Response Status C

Response

ACCEPT.

L 3 # i-26 m Ltd.

nel return loss (from 20 dB minimum) is The test fixture return losses defined in er that what is required for the test channel. ightly controlled to foster consistency in

annel return loss requirement.

C/ 128B SC 128B	P 189 L 6	# i-27
Healey, Adam	Broadcom Ltd.	

Annex 69B. This is an interesting choice uirements for interference tolerance testing a new annex. It is not clear why the unique ed to Annex 69B. For example, 128B.1 ption of cross-references. The introductory through 128B.4.6 are also common with the to 2.5GBASE-KX and 5GBASE-KR. The .4.3.2 deviates in format from 69B.4.3 but

ontent (table columns, figures, equations)

ACCEPT IN PRINCIPLE.

Remove Annex 128B and merge the unique content (table columns, figures, equations) into Annex 69A.

C/ 128 SC 128.7.1 P 110 L 20 # i-28 Healey, Adam Broadcom Ltd. Image: Comparison of the second secon	C/ 128A SC 128A.3.1.7 P 175 L 44 # [i-31 Healey, Adam Broadcom Ltd. Broadcom Ltd.
Comment Type E Comment Status A "See the Equation and the Equation" seems awkward.	Comment Type TR Comment Status A In Table 128A-3, how does one go from -9.5 dB to 0 dB with a step size of 1 dB?
SuggestedRemedy Change to "See Equation and Equation". This applies to both differential and common- mode return loss.	SuggestedRemedy Is there a 0.5 dB step somehwere in the progression between -9.5 and 0 dB. If so, where? Clarify.
Response Response Status C ACCEPT.	Response Response Status C ACCEPT IN PRINCIPLE.
C/ 130 SC 130.7.1 P 144 L 20 # [i-29	Change step size to 0.5.
Healey, Adam Broadcom Ltd. Comment Type E Comment Status	C/ 130A SC 130A.3.6 P 215 L 34 # [i-32] Healey, Adam Broadcom Ltd. Broadcom Ltd.
SuggestedRemedy Change "pre-cursor ratio" to "pre-cursor equalization ratio". Similarly, in 130.7.1.11 (page 150, line 1) change "pre-equalization ratios" to "pre-cursor equalization ratio" and in Table 130A-1 (page 212, line 29) change "pre-cursor ratio" to "pre-cursor equalization ratio". Response Response Status C ACCEPT. C C	 However, it is not clear why the specification is fragmented so that Np is defined in Table 130A-1 and Dp is defined in this subclause. It would be better to keep this information together. SuggestedRemedy In item c), change "using Np from Table 130A-2" to "using Np = 8". Remove "- SNDR, Np=8" from Table 130A-1. Make similar changes for Table 130A-7 and 130A.5.3 as well as Table 128A-1 and 128A.3.1.7.
C/ 130A SC 130A.5.3 P 222 L 1 # [i-30] Healey, Adam Broadcom Ltd.	Response Response Status C ACCEPT.
Comment Type E Comment Status R This is the 4th time signal-to-noise-and-distortion ratio (SNDR) is defined in this draft. The only thing that changes among the four definitions is the value of Np and the definition of the CTLE that is to be included (or in the case of 2.5GSEI drive output, not included). The	
rest of the text is redundant with the other 3 instances in the draft.	
rest of the text is redundant with the other 3 instances in the draft. SuggestedRemedy Consider eliminating the redundancy by changing 128A.3.3.3, 130A.3.6, and 120A.5.3 to refer to the definition in 128A.3.1.7 and state only the differences relative that procedure (e.g. Np value and/or CTLE inclusion/definition).	

Proposed change in the comment does not contain sufficient detail that the comment resolution group can understand the specific changes that will satisfy the commenter.

C/ 130A SC 130A.3.6 P 216 L 12 # 1-33	C/ 128A SC 128A.3.4.		L 39	# <u>i-35</u>
Healey, Adam Broadcom Ltd.	Healey, Adam	Broadcom Ltd.		
Comment Type TR Comment Status A	Comment Type T	Comment Status A		
In Table 130A-2, how does one go from -14.5 dB to 0 dB with a step size of 1 dB?		3" here, which is only one of the to add a reference to 128A.3		
SuggestedRemedy	procedure.			
Is there a 0.5 dB step somehwere in the progression between -14.5 and 0 dB. If so, where? Clarify.	SuggestedRemedy			
Response Response Status C ACCEPT IN PRINCIPLE.	= 3)" from the parameter	equired SNDR." to "required er column of the last row of Ta e 128A-3, 130A.4.2 and Table	able 128A-8. Su	iggest similar changes
Change step size to 0.5.	Response	Response Status C		
[Editor's note added after comment resolution completed.	ACCEPT.			
The comment response was corrected from ACCEPT to ACCEPT IN PRINCIPLE as there	C/ 0 SC 0	P1	L 4	# <u>i-36</u>
is text is provided in the response.]	Grow, Robert	RMG Consultir	ng	
C/ 130A SC 130A.3.6 P 216 L 6 # i-34	Comment Type E	Comment Status R		
		7 is published and subsequent at number order (bs. cc. cb).	proposed ame	endments now have
Comment Type ER Comment Status A	established amendmen	7 is published and subsequent at number order (bs, cc, cb).	proposed ame	endments now have
	established amendmen SuggestedRemedy Delete IEEE Std 802.3t		c after 802.3bs	
Comment Type ER Comment Status A The column heading "Reference" should be "Symbol" (see Table 93A-1). The minimum, maximum, and step values for "Continuous time filter, DC gain" are not all named "gDC". There should be single "gDC" in this cell aligned with the text "Continuous time filter". Again, see Table 93A-1.	established amendmen SuggestedRemedy Delete IEEE Std 802.3t	nt number order (bs, cc, cb). bt-20xx, add IEEE Std 802.3bd	c after 802.3bs	
Comment Type ER Comment Status A The column heading "Reference" should be "Symbol" (see Table 93A-1). The minimum, maximum, and step values for "Continuous time filter, DC gain" are not all named "gDC". There should be single "gDC" in this cell aligned with the text "Continuous time filter". Again, see Table 93A-1. SuggestedRemedy	established amendmen SuggestedRemedy Delete IEEE Std 802.3t deleting the publication	nt number order (bs, cc, cb). ht-20xx, add IEEE Std 802.3b update parenthetical at the en	c after 802.3bs	
Comment Type ER Comment Status A The column heading "Reference" should be "Symbol" (see Table 93A-1). The minimum, maximum, and step values for "Continuous time filter, DC gain" are not all named "gDC". There should be single "gDC" in this cell aligned with the text "Continuous time filter". Again, see Table 93A-1.	established amendmen SuggestedRemedy Delete IEEE Std 802.3t deleting the publication Response REJECT.	nt number order (bs, cc, cb). bt-20xx, add IEEE Std 802.3b update parenthetical at the en <i>Response Status</i> C	c after 802.3bs nd of the list.	. Also recommend
Comment Type ER Comment Status A The column heading "Reference" should be "Symbol" (see Table 93A-1). The minimum, maximum, and step values for "Continuous time filter, DC gain" are not all named "gDC". There should be single "gDC" in this cell aligned with the text "Continuous time filter". Again, see Table 93A-1. SuggestedRemedy Correct per comment. Note the same issues also exist in Tables 128A-2 and 130A-8.	established amendmen SuggestedRemedy Delete IEEE Std 802.3t deleting the publication Response REJECT.	nt number order (bs, cc, cb). bt-20xx, add IEEE Std 802.3bd update parenthetical at the en <i>Response Status</i> C nts is being deleted at this poin	c after 802.3bs nd of the list.	. Also recommend
Comment Type ER Comment Status A The column heading "Reference" should be "Symbol" (see Table 93A-1). The minimum, maximum, and step values for "Continuous time filter, DC gain" are not all named "gDC". There should be single "gDC" in this cell aligned with the text "Continuous time filter". Again, see Table 93A-1. SuggestedRemedy Correct per comment. Note the same issues also exist in Tables 128A-2 and 130A-8.	established amendmen SuggestedRemedy Delete IEEE Std 802.3t deleting the publication Response REJECT. The list of ammendmer publication preparation.	nt number order (bs, cc, cb). bt-20xx, add IEEE Std 802.3bd update parenthetical at the en <i>Response Status</i> C nts is being deleted at this point.	c after 802.3bs nd of the list. nt and will be fil	. Also recommend
Comment Type ER Comment Status A The column heading "Reference" should be "Symbol" (see Table 93A-1). The minimum, maximum, and step values for "Continuous time filter, DC gain" are not all named "gDC". There should be single "gDC" in this cell aligned with the text "Continuous time filter". Again, see Table 93A-1. SuggestedRemedy Correct per comment. Note the same issues also exist in Tables 128A-2 and 130A-8. Response Response Status C	established amendmen SuggestedRemedy Delete IEEE Std 802.3t deleting the publication Response REJECT. The list of ammendmer publication preparation. CI 0 SC 0	ht number order (bs, cc, cb). bt-20xx, add IEEE Std 802.3bd oupdate parenthetical at the en <i>Response Status</i> C hts is being deleted at this point. <i>P</i> 1	c after 802.3bs nd of the list. nt and will be fil	. Also recommend
Comment Type ER Comment Status A The column heading "Reference" should be "Symbol" (see Table 93A-1). The minimum, maximum, and step values for "Continuous time filter, DC gain" are not all named "gDC". There should be single "gDC" in this cell aligned with the text "Continuous time filter". Again, see Table 93A-1. SuggestedRemedy Correct per comment. Note the same issues also exist in Tables 128A-2 and 130A-8. Response Response Status C	established amendmen SuggestedRemedy Delete IEEE Std 802.3t deleting the publication Response REJECT. The list of ammendmer publication preparation. C/ 0 SC 0 Grow, Robert	ht number order (bs, cc, cb). bt-20xx, add IEEE Std 802.3bd update parenthetical at the en <i>Response Status</i> C hts is being deleted at this point. <i>P</i> 1 RMG Consultir	c after 802.3bs nd of the list. nt and will be fil	. Also recommend
Comment Type ER Comment Status A The column heading "Reference" should be "Symbol" (see Table 93A-1). The minimum, maximum, and step values for "Continuous time filter, DC gain" are not all named "gDC". There should be single "gDC" in this cell aligned with the text "Continuous time filter". Again, see Table 93A-1. SuggestedRemedy Correct per comment. Note the same issues also exist in Tables 128A-2 and 130A-8. Response Response Status C	established amendmen SuggestedRemedy Delete IEEE Std 802.3t deleting the publication Response REJECT. The list of ammendmer publication preparation. CI 0 SC 0	ht number order (bs, cc, cb). bt-20xx, add IEEE Std 802.3b bupdate parenthetical at the en <i>Response Status</i> C hts is being deleted at this point <i>P</i> 1 RMG Consultin <i>Comment Status</i> A	c after 802.3bs nd of the list. nt and will be fil	. Also recommend
Comment Type ER Comment Status A The column heading "Reference" should be "Symbol" (see Table 93A-1). The minimum, maximum, and step values for "Continuous time filter, DC gain" are not all named "gDC". There should be single "gDC" in this cell aligned with the text "Continuous time filter". Again, see Table 93A-1. SuggestedRemedy Correct per comment. Note the same issues also exist in Tables 128A-2 and 130A-8. Response Response Status C	established amendmen SuggestedRemedy Delete IEEE Std 802.3t deleting the publication Response REJECT. The list of ammendmer publication preparation. C/ 0 SC 0 Grow, Robert Comment Type E Amendment number has SuggestedRemedy	ht number order (bs, cc, cb). bt-20xx, add IEEE Std 802.3b bupdate parenthetical at the en <i>Response Status</i> C hts is being deleted at this point <i>P</i> 1 RMG Consultin <i>Comment Status</i> A	c after 802.3bs nd of the list. nt and will be fil	. Also recommend
Comment Type ER Comment Status A The column heading "Reference" should be "Symbol" (see Table 93A-1). The minimum, maximum, and step values for "Continuous time filter, DC gain" are not all named "gDC". There should be single "gDC" in this cell aligned with the text "Continuous time filter". Again, see Table 93A-1. SuggestedRemedy Correct per comment. Note the same issues also exist in Tables 128A-2 and 130A-8. Response Response Status C	established amendmen SuggestedRemedy Delete IEEE Std 802.3t deleting the publication Response REJECT. The list of ammendmer publication preparation. C/ 0 SC 0 Grow, Robert Comment Type E Amendment number has SuggestedRemedy	ht number order (bs, cc, cb). bt-20xx, add IEEE Std 802.3bd update parenthetical at the en <i>Response Status</i> C hts is being deleted at this point <i>P</i> 1 RMG Consultin <i>Comment Status</i> A as been assigned.	c after 802.3bs nd of the list. nt and will be fil	. Also recommend

C/ 0 SC 0 Grow, Robert	P1 RMG Consulting	L 28	# i-38	<i>CI</i> 0 Grow, Rol	SC 0 bert			P 13 RMG Consult	L 28 ing	# <u>i-</u> 41
	t Status R	endment to IEE	E Std 802.3-2015.	Comment IEEE estab Suggeste	⁺ <i>Type</i> Std 802.3 lished am d <i>Remedy</i>	endmer	nt number ord	Status A and subsequer er (bs, cc, cb).	nt proposed ame	endments now have
	Status C			descr draft l	iption for 8	30 ['] 2.3cc	from its lates	t draft and desc	ribe it as Ameno	dment 11 (if P802.3cd g of the 802.3cb
The list of ammendments and corrigination maintained here.	gendum composing	the base docur	nent will be	Response ACCE			Response	Status C		
C/ 0 SC 0 Grow, Robert	P3 RMG Consulting	L 2	# i-39	<i>Cl</i> 0 Grow, Rol	SC 0 bert			P 27 RMG Consult	L 3 ing	# i-42
Comment Type E Commen Awkward grammar	t Status A			<i>Comment</i> Amer		E mber ha	<i>Comment</i> as been assig			
SuggestedRemedy Change to read and management of at 2.5 Gb/s and 5 Gb/s over electri Response ACCEPT.		transfer of Ethe	ernet format frames	Suggeste Insert Response ACCE	amendm e		nber "12" after <i>Response</i> S	"Amendment". S <i>tatus</i> C		
C/ 0 SC 0 Grow, Robert	P 11 RMG Consulting	L 3	# <u>i-40</u>	C/ 0 Grow, Rol	SC 0 bert			P 27 RMG Consult	L 10 ing	# i-43
Comment Type E Comment This box will be included in the pub not be the project name draft, or rel	<i>t Status</i> A lished document, the	erefore, the doc	ument name should	Comment Typo' Suggeste Delet	? dRemedy		Comment	Status A	ent title	
SuggestedRemedy Change IEEE Std P802.3cb-20xx to title.	DIEEE Std 802.3cb-	20xx. Delete th	ne word Draft in the	Response ACCE	;		Response S			

Response Response Status C ACCEPT.

Comment ID j-43

IEEE P802.3cb D3.0 2.5 Gb/s and 5 Gb/s Operation over Backplane Initial Sponsor ballot comments

C/ 1 SC 1 Grow, Robert	P 28 RMG Consultir	L 3 ng	# <u>i-</u> 44	C/ 1 SC 1.4 P 28 L 38 # i-46 Grow, Robert RMG Consulting				
	Comment Status A 117 is published and subsequent ent number order (bs, cc, cb).	0	endments now have	Comment Type E Comment Status A The proper insert point for 200G and 400G is after 2.5G terms (802.3 sort order place "." before a zero). Specifying proper insert point will require coordination with P802.3 D3.2 comment resolutions.				
Delete the Editor's No Response ACCEPT.	ote. Response Status C			SuggestedRemedy If P802.3bs updates subclause numbering, then 5G terms should come after 400G te in P802.3bs. Response Response Status C				
C/ 1 SC 1.3 Grow, Robert Comment Type TR	P 28 RMG Consultir Comment Status A	L 15 ng	# [i-45	ACCEPT IN PRINCIPLE. Changes will be made if 802.3bs is available in time for our recirculation. Publication editors have indicated they will do renumbering during publication preparation.				
include a normative r appears that footnote redirection from ftp.so SuggestedRemedy Change footnote 22 of	eument, but cannot find the 2015 reference to a document that is in 22 in the base document requi eagate.com to ta.snia.org should of base document and include a F normative reference (if not SI <i>Response Status</i> U PLE.	not available p res update for d not be neces pproriate infor	bublically. It also SFF documents (a ssary). mation for how to get	Cl 1 SC 1.4 P 29 L 3 # i-47 Grow, Robert RMG Consulting # Comment Type ER Comment Status A P802.3bs has been assigned Amendment 10. SuggestedRemedy Rewrite editors note, editing instruction and text for an edit to 802.3bs text. Suggest note should still note the definition is being modified by P802.3bs, and base text is free P802.3bs/D3.2 (unless D3.3 is available before your editing is ready for ballot).				
Change reference to:				Response Response Status U ACCEPT IN PRINCIPLE.				
Add a footnote with tl	available from the Storage Netw			The base text for this change is from P802.3bs/D3.3 . [Editor's note added after comment resolution completed. Based on the comment response the editor's note has been deleted and replaced wit editing instructions that reads 'Change the base text of the definition to that of 802.3b shown.']				

C/ 45 SC 45	P 33	L 3	# i-48	C/ 73 SC 73.6.4 P 52 L 21	# i-49					
Grow, Robert	RMG Consultin	ig		RAN, ADEE Intel Corporation						
Comment Type E	Comment Status A			Comment Type G Comment Status R						
Intended publication	order has been specified by our	WG Chair.		The third paragraph of 73.6.4 is the subject of approved main	tenance request 1283 (See					
SuggestedRemedy				http://www.ieee802.org/3/maint/requests/maint_1283.pdf).						
	view subclause numbers based of Iments assigned a lower amendr		hed amendments and	The approval has resulted in changing this paragraph in 802.3	3cd D1.0.					
Response ACCEPT.	Response Status C			As 802.3cb is expected to be included in the next 802.3 revision (and 802.3cd is expect to be an amendment of that revision), it would be beneficial to have the change implemented in 802.3cb. This would remove the need to add more PHYs to the long laundry list.						
				SuggestedRemedy						
				Per maintenance request 1283:						
				Replace the third paragraph of 73.6.4 with the following NOTE	E:					
				NOTEPrevious editions of this standard prohibited advertisement of PHYs that su operation over electrical backplanes with PHYs that support operation over copper assemblies.						
				In subclause 73.11.4.3, delete PICS item LE18. Response Response Status C						
				REJECT.						
				Rationale for rejecting this comment is:						
				 a) the text does seem to be correct in the context of P802.3cb and b) Significant advantage does not exist for pulling the text from P802.3cd and installing P802.3cb at this time. Naturally P802.3cd will need to update its illustration of Clause 7 changes to account for the changes made in the P802.3cb [draft] amendment but it ha ample time to do so. The time pressure on P802.3cb is greater. 						

CI 73 SC 73.10.1 P 54 L 6 # [i-50] RAN, ADEE Intel Corporation	C/ 125 SC 125.1.3 P 59 L 33 # 1-53 RAN, ADEE Intel Corporation
Comment Type E Comment Status A Typo in newly inserted text: "link_stats" should be "link_status".	Comment Type E Comment Status A The base text is incorrectly quoted.
SuggestedRemedy Fix per comment, items 2 and 3 in the list.	In 802.3bz, the first paragraph ends with "is explained in the following paragraphs". Here it ends with "is explained as follows".
Response Response Status C ACCEPT.	SuggestedRemedy Correct the first paragraph to be the same as in 802.3bz.
C/ 125 SC 125.1.2 P 59 L 25 # [i-51 RAN, ADEE Intel Corporation	Response Response Status C ACCEPT.
Comment Type E Comment Status A The editorial instruction is "change", but the newly Inserted text is not underlined.	CI 125 SC 125.1.3 P 60 L 6 # [i-54 RAN, ADEE Intel Corporation
SuggestedRemedy Change the format of item d to underline. Response Response Status C ACCEPT.	Comment Type G Comment Status A Editorial instruction should be "replace", since the existing figure is replaced with a new figure. SuggestedRemedy Per comment.
C/ 125 SC 125.1.2 P 59 L 23 # [i-52] RAN, ADEE Intel Corporation Intel Corporation Intel Corporation Intel Corporation	Response Response Status C ACCEPT.
Comment Type E Comment Status A "bitwide" is "bit wide" in the base text. If this is a correction to should be stated in the editing instruction and formatted accordingly.	C/ 69 SC 69.1.2 P 46 L 4 # i-55 RAN, ADEE Intel Corporation Intel Corporation Intel Corporation
The suggested remedy assumes this is unintended. SuggestedRemedy Change "bitwide" to "bit wide".	Comment Type E Comment Status A Text in figure 69-3 is in Times font. Similar figures in the base document (e.g. 69-1 and 69 2) use Arial font. SuggestedRemedy
Response Response Status C ACCEPT.	Change all text embedded in figure 69-3 to 8-point Arial font. Response Response Status C ACCEPT.

C/ 73 SC 73.1 P 51 # i-56 C/ 127 P64 L 27 L7 SC 127.1.2 # i-59 RAN, ADEE Intel Corporation RAN, ADEE Intel Corporation Comment Type G Comment Status A Comment Type Е Comment Status A "Change" instruction is not used for figures (per style manual). Figures can be replaced by Some of the text in figure 127-1 is in Times font. Similar figures in the base document use new figures, using the "replace" instruction. Arial font. SuggestedRemedy Also, this figure seems to be based on amendment 802.3by. Change all embedded text to Arial. SuggestedRemedy Response Response Status C Change editing instruction to "replace". ACCEPT. Add "(as amended by 802.3by-2016)" after the figure number. C/ 127 SC 127.1.4 P 65 L 19 # i-60 Response Response Status C RAN. ADEE Intel Corporation ACCEPT. Comment Type E Comment Status A C/ 73 SC 73.1 P 51 L 27 # i-57 There is only one exception. RAN. ADEE Intel Corporation Also, in 125.1.2 the XGMII is described as using "a 32-bit-wide data path" while here it Comment Status A Comment Type G uses "an word-wide data path" The "25GMII" line appears in Times font, unlike the rest of the text. SuggestedRemedy SuggestedRemedy Change "The only exceptions are a) " to "The only exception is". Change to Arial font. Change "an word-wide data path" to "a 32-bit-wide data path". Response Response Status C Response Response Status C ACCEPT. ACCEPT. P 61 C/ 125 SC 125.1.4 L 38 # i-58 C/ 127 SC 127.1.6 P 65 / 29 # i-61 RAN. ADEE Intel Corporation RAN, ADEE Intel Corporation Comment Type Ε Comment Status A Comment Type E Comment Status A The editing instruction is "change", but the new inserted rows are not underlined. The first sentence says "The body of this standard is comprised of state diagrams. SuagestedRemedv including the associated definitions of variables, constants, and functions". Format the rows for 2.5GBASE-KX and 5GBASE-KR in underlined font. This is obviously not true: the standard comprises many more than just state diagrams and Response Response Status C associated definitions. ACCEPT. Furthermore, this subclause is out of place here: a similar subclause (127.2.6) appears right before the state diagram content. There is no need for this text in the introduction. SugaestedRemedv Delete the entire subclause 127.1.6. Response Response Status C ACCEPT.

IEEE P802.3cb D3.0 2.5 Gb/s and 5 Gb/s Operation over Backplane Initial Sponsor ballot comments

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: Comment ID

CI 127 SC 127.2.2 P 66 L 53 # i-62 RAN, ADEE Intel Corporation	CI 127 SC 127.2.6.2.1 P 85 L 34 # i-64 RAN, ADEE Intel Corporation					
Comment Type T Comment Status A						
The test says "() and transmits one 2.5GPII symbol and its associated transmit and transmit error at a time to the PCS Transmit Process"	Comment Type TR Comment Status A It seems that some conditions are missing in the state transition arrows out of states TX_2.5GPII_4 through TX_2.5GPII_6.					
Should "transmit and transmit error" be "transmit enable and transmit error" ?	Should the condition be "cg_timer_done"?					
Also, Figure 127-2 includes another signal, tx_even, generated from this process. It is not mentioned here, nor in the next paragraph. Should it be?	SuggestedRemedy Add conditions as required.					
SuggestedRemedy	Response Response Status U					
Edit the text to clarify (I do not know whether tx_even should be listed here)	ACCEPT.					
Response Response Status C ACCEPT IN PRINCIPLE.	CI 130ASC 130A.3P 212L 30# i-65Mcclellan, BrettMarvell Semiconducto					
Add to the following sentence on page 67, line 1:	Comment Type T Comment Status D					
The PCS Transmit process continuously generates code-groups based upon the tpd<7:0>, tp_en , tx_even , and tp_er signals on the 2.5GPII, sending them immediately to the PMA	Pre-cursor ratio has been changed from 1.25+/0.05 to 0.65+/- 0.65, obviously +/- 0.65 is not correct.					
Service Interface via the PMA_UNITDATA.request primitive.	SuggestedRemedy					
	change +/-0.65 to +/-0.05					
C/ 0 SC 0 P 73 L 3 # [i-63] RAN, ADEE Intel Corporation	Proposed Response Response Status Z					
	REJECT.					
Comment Type E Comment Status A The term "ordered_set" appears in many places but is not defined anywhere. "ordered set" (without the underscore) seems to be used interchangeably.	This comment was WITHDRAWN by the commenter.					
The based document (e.g. clause 36) uses "ordered set" consistently.						
SuggestedRemedy						
Change "ordered_set" to "ordered set" across the draft.						
Response Response Status C						
ACCEPT.						

C/ 128 SC 128.1	P 103	L 28	# i-66	C/ 128 SC 128	3.2.2	P 104	L 32	# <u>i-</u> 68
RAN, ADEE	Intel Corporation	n		RAN, ADEE	I	ntel Corporatior	۱	
Comment Type G	Comment Status A			Comment Type E	Comment St	atus A		
This subclause is title of EEE, which is an o	d "Overview", but more than hall ptional feature.	f of its text discu	ussed technical details	"This primitive de	efines the transfer of d	ata (in the form	of serialized	data)"
	e, a feature should be described l			The parenthesize words can be us	ed words don't add an ed here.	y value. the wor	ding in 128.2.	.1 is better, can simila
• •	subclause. There is a dedicated		EE III 126.0.10.	SuggestedRemedy				
SuggestedRemedy	of 128.1, keep the first sentence			Replace the con	tents of this subclause	with the followi	ng:	
"A 2.5GBASE-KX PH	Y with the optional Energy-Efficiency Power Idle (LPI) mode to con	ent Ethernet (E		"This primitive de <i>Response</i> ACCEPT.	efines the transfer of a Response Sta		am from the I	PMD to the PMA".
Move the rest of the p	paragraph to 128.6.10, with edito	rial license to re	ephrase if necessary.			D / 44		
Response	Response Status C			C/ 128 SC 128		P 108	L 31	# i-69
ACCEPT.				RAN, ADEE		ntel Corporatior	1	
/ 128 SC 128.2	P 103	L 45	#	Comment Type T				
AN, ADEE	Intel Corporation	-	# i <u>-</u> 67	The words "with should be disable	a single variable" were ed.	e used in clause	71 since trar	nsmitters of four lanes
	Comment Status A reface supports the exchange of MA and PMD entities"	f encoded and s	scrambled 8B/10B	In most of the ot	ly one transmitter, so her single-lane clause seems to be the only e	s this wording is		
"The PMD Service Int blocks between the P Scrambling is not spe	erface supports the exchange of			In most of the ot 110.7.5). 70.6.5		s this wording is exception.	s not used (se	e 72.6.5, 89.5.6,
"The PMD Service Int blocks between the P Scrambling is not spe 8B/10B encoding doe	erface supports the exchange of MA and PMD entities" ecified or mentioned anywhere el s not include scrambling.	se in 2.5GBSE	-X. Unlike BASE-R,	In most of the ot 110.7.5). 70.6.5	her single-lane clause seems to be the only e	s this wording is exception.	s not used (se	e 72.6.5, 89.5.6,
"The PMD Service Int blocks between the P Scrambling is not spe 8B/10B encoding doe Moreover, the PMD se	erface supports the exchange of MA and PMD entities" acified or mentioned anywhere el s not include scrambling. ervice interface is specified in ter	se in 2.5GBSE	-X. Unlike BASE-R,	In most of the ot 110.7.5). 70.6.5 Also, the list follo SuggestedRemedy Change the seco	her single-lane clause seems to be the only o owing this paragraph is ond sentence in the firs	s this wording is exception. s not connected st paragraph FR	s not used (se yo it logically	e 72.6.5, 89.5.6,
"The PMD Service Int blocks between the P Scrambling is not spe 8B/10B encoding doe Moreover, the PMD se	erface supports the exchange of MA and PMD entities" ecified or mentioned anywhere el s not include scrambling.	se in 2.5GBSE	-X. Unlike BASE-R,	In most of the ot 110.7.5). 70.6.5 Also, the list follo SuggestedRemedy Change the seco "When implement	her single-lane clause seems to be the only o owing this paragraph is	s this wording is exception. s not connected st paragraph FR	s not used (se yo it logically	e 72.6.5, 89.5.6,
"The PMD Service Int blocks between the P Scrambling is not spe 8B/10B encoding doe Moreover, the PMD se The sentence is wrong uggestedRemedy	erface supports the exchange of MA and PMD entities" acified or mentioned anywhere el s not include scrambling. ervice interface is specified in ter	se in 2.5GBSE	-X. Unlike BASE-R,	In most of the ot 110.7.5). 70.6.5 Also, the list follo SuggestedRemedy Change the seco "When implemen TO	her single-lane clause seems to be the only o owing this paragraph is ond sentence in the firs	s this wording is exception. s not connected st paragraph FR smitter to be dis	yo it logically 20M abled with a s	e 72.6.5, 89.5.6, single variable"
"The PMD Service Int blocks between the P Scrambling is not spe 8B/10B encoding doe Moreover, the PMD so The sentence is wron- uggestedRemedy Change FROM	erface supports the exchange of MA and PMD entities" ecified or mentioned anywhere el is not include scrambling. ervice interface is specified in ter g and should be corrected.	se in 2.5GBSE	-X. Unlike BASE-R, 8B/10B blocks.	In most of the ot 110.7.5). 70.6.5 Also, the list follo SuggestedRemedy Change the seco "When implemen TO	her single-lane clause seems to be the only o owing this paragraph is ond sentence in the firs nted, it allows the trans	s this wording is exception. s not connected st paragraph FR smitter to be dis all meet the follo	yo it logically 20M abled with a s	e 72.6.5, 89.5.6, single variable"
"The PMD Service Int blocks between the P Scrambling is not spe 8B/10B encoding doe Moreover, the PMD so The sentence is wron SuggestedRemedy Change FROM	erface supports the exchange of MA and PMD entities" ecified or mentioned anywhere el s not include scrambling. ervice interface is specified in ter g and should be corrected.	se in 2.5GBSE	-X. Unlike BASE-R, 8B/10B blocks.	In most of the ot 110.7.5). 70.6.5 Also, the list follo <i>SuggestedRemedy</i> Change the seco "When implemen TO "When this funct	her single-lane clause seems to be the only o owing this paragraph is ond sentence in the firs nted, it allows the trans ion is supported, it sha	s this wording is exception. s not connected st paragraph FR smitter to be dis all meet the follo	yo it logically 20M abled with a s	e 72.6.5, 89.5.6, single variable"
"The PMD Service Int blocks between the P Scrambling is not spe 8B/10B encoding doe Moreover, the PMD se The sentence is wron uggestedRemedy Change FROM "The PMD Service Int blocks between the P TO "The PMD Service Int	erface supports the exchange of MA and PMD entities" ecified or mentioned anywhere el s not include scrambling. ervice interface is specified in ter g and should be corrected.	se in 2.5GBSE rms of bits, not f encoded and s f bit streams rep	-X. Unlike BASE-R, 8B/10B blocks. scrambled 8B/10B	In most of the ot 110.7.5). 70.6.5 Also, the list follo SuggestedRemedy Change the seco "When implemen TO "When this funct Response	her single-lane clause seems to be the only o owing this paragraph is ond sentence in the firs nted, it allows the trans ion is supported, it sha	s this wording is exception. s not connected st paragraph FR smitter to be dis all meet the follo	yo it logically 20M abled with a s	e 72.6.5, 89.5.6, single variable"
"The PMD Service Int blocks between the P Scrambling is not spe 8B/10B encoding doe Moreover, the PMD se The sentence is wron SuggestedRemedy Change FROM "The PMD Service Int blocks between the P TO "The PMD Service Int	erface supports the exchange of MA and PMD entities" ecified or mentioned anywhere el s not include scrambling. ervice interface is specified in ter g and should be corrected. erface supports the exchange of MA and PMD entities"	se in 2.5GBSE rms of bits, not f encoded and s f bit streams rep	-X. Unlike BASE-R, 8B/10B blocks. scrambled 8B/10B	In most of the ot 110.7.5). 70.6.5 Also, the list follo SuggestedRemedy Change the seco "When implemen TO "When this funct Response	her single-lane clause seems to be the only o owing this paragraph is ond sentence in the firs nted, it allows the trans ion is supported, it sha	s this wording is exception. s not connected st paragraph FR smitter to be dis all meet the follo	yo it logically 20M abled with a s	e 72.6.5, 89.5.6, single variable"

C/ 128 SC 128.6.6 RAN, ADEE	P 108 Intel Corporati	L 49	# i-70	C/ 128 SC 128.6. RAN, ADEE	10 P 109 Intel Corporat	L 25	# <u>i-</u> 71	
		UII						
normal mode of operation Per the style manual (10 Loopback is not unavoid Recent PMA/PMD clause setting, so this statement SuggestedRemedy Delete the quoted senter	2.2) "must is used only to c able, so it is inappropriate h es (72 and later) do not stat t is not necessary here.	lescribe unavoid ere.	dable situations".	 Comment Type G Comment Status A 45.2.7.13 does not describe EEE capabilities and parameter advertisement for this clau It only refers to 73A.4 for devices that use clause 73. So an unsophisticated reader may not find where the advertisement bits are controlled. The reference here should be to 45.2.7.14aa (which defines the relevant register for 2.5GBASE-KX), as done in 130.6.10. Also, 73A.4 refers back to 45.2.7.13, which lists registers for all existing PMDs that use clause 73, but not for 2.5GBASE-KX nor for 5GBASE-KR Either 73A.4 should be amended to also refer to 45.2.7.14aa, or 45.2.7.13 should menti that some PMDs use the register defined in 45.2.7.14aa instead. Note that 45.2.7.13 and 73A.4 are not amended in this draft. SuggestedRemedy 				
				Change the reference	ce to 45.2.7.14aa.			
				Add a reference to 4	5.2.7.14aa in either 73A.4 or 4	5.2.7.13.		
				Response ACCEPT IN PRINC	Response Status C IPLE.			
				Make the following o	changes to reference the bits in	the new register	, 7.62:	
				Page following a EE Bits 15:0 of register field of Message Ne Bits 3:1 of register 7 and 1000BASE-T te Devices using Claus negotiation, and dev	7.60 map to bits U10 through U E technology message code as 7.60 map to bits U15 through U xt Page with EEE technology m .60 also map to bits U24 throug chnology message code as def se 28 auto-negotiation may igno rices using Clause 73 autonego bitation. Some devices using Cl	defined in 28C. O respectively o essage code as th U22 respectiv ined in 28C.11. re bits defined fi tiation may igno	12. f the unformatted code defined in 73A.4. ely of the 10GBASE-T or Clause 73 auto- re bits defined for	

<i>CI</i> 128 RAN, ADEE	SC 128.6.10	P 109 Intel Corporat	L 23 ion	# <u>i-72</u>	<i>CI</i> 128 RAN, ADEI	SC 128.7.1.4		111 I Corporatio	L 50 on	# <u>i-73</u>	
Comment Ty	/pe т С	comment Status A			Comment 7	ype TR	Comment Statu	s A			
and Wal	"The PMD LPI function responds to the transitions between Active, Sleep, Quiet, Refresh, and Wake states ()"					The test pattern defined in 52.9.1.2 is for 10GBASE-R. This PMD uses 8B/10B encoding and devices don't need to be able to generate or tolerate square waves with runs longer than 5 UI, so this pattern is is inappropriate here.					
with diffe	erent names. The P	PMD states. They are de MD does not respond to			The pa	ttern used for th	his encoding (e.g. in	71.7.1.4) i	is defined in 48	A.2.	
requests	s based on these tra	ansitions.	Suggested	Remedy							
		"The transmitter sends transmitter during quiet,					to 48A.2, and delete ght consecutive zero			ght consecutive ones 00)"	
phase					Change	e PICS item TC	4 accordingly to use	e run lengtł	h of 5.		
		PMD does not have thes			Response		Response Status	s U			
sent the	m. It is the PCS's fu	e interface primitives. It is inction. This sentence m			ACCEF	РТ.					
PMD cla	ause.				C/ 128	SC 128.7.1.4	4 P	112	L 19	# i-74	
		e based on 72.6.11. Note			RAN, ADEI	E	Intel	I Corporatio	on		
72 (exce required	• •	t include a "PMD LPI fur	nction" subclause	e, so perhaps it is not	Comment T A note		Comment Statu		a "shall" staten	nent.	
uggestedR	emedy				(T), , (,						
		n the first paragraph to			``	(The formatting of this statement uses mixed font sizes. Should it be part of the note at all?)					
generate		oonds to PMD_TXQUIET nit state diagram (See 12			SuggestedRemedy Change "shall be as specified" to "is specified". Decide whether this is part of the note or a separate paragraph; use appropriate format consistently.						
Ũ	he second paragrap	h.									
Conside	r deleting the whole	subclause.			Response ACCEF	PT IN PRINCIPI	Response Status	s U			
Apply th	e same change in 1	30.6.10.									
esponse	Re	esponse Status C			Make 2nd sentence below Note 2 a separate paragraph.						
ACCEP	T IN PRINCIPLE.				[Editor'	[Editor's note added after comment resolution completed.					
Change	the first sentence ir	n the first paragraph to:			The comment response was corrected from ACCEPT to ACCEPT IN PRINCIPLE as there is text is provided in the response.]						
generate diagram		onds to PMD_TXQUIET nit state diagram (See 12 h.			IS LEXT		le response.]				
Apply th	e same change in 1	30.6.10.									
COMMENT				T/technical E/editorial G SE STATUS: O/open W/		U/unsatisfied	Z/withdrawn	Comme	nt ID i-74	Page 17 of 37 3/15/2018 6:54:4	

CI O SC O P 114 L 29 # [i-75	C/ 127 SC 127.2.2 P 66 L 30 # 1-77					
RAN, ADEE Intel Corporation Comment Type TR Comment Status A Annex 36A defines test patterns for 1000BASE-X PMDs, which use a different signaling frequency. They are also specified in bit times instead of UI, which is incorrect. Also, the interference tolerance test pattern has to be compatible with the PCS/XGMII	RAN, ADEE Intel Corporation Comment Type T Comment Status A Shouldn't the signal detect (sent from the PMD to the PMA and PCS, used in autonegotiation) and LPI signals for TX/RX LPI mode appear in this diagram? SuggestedRemedy					
defined in in clause 127. The one in 36A.4 seems to assume GMII. The test patterns for the signaling frequency and PCS used in this PHY are defined in Annex 48A. SuggestedRemedy	Add the signals as appropriate. possibly in a separate diagram form LPI (see for examp figures 105-2 and 105-3 in 802.3by). <i>Response</i> <i>Response</i> <i>Response</i> <i>Response</i> <i>C</i> ACCEPT.					
Change 36A.1 to 48A.1, twice in 128.7.1.7. Also fix the wrong reference in PICS item TC17. Change 36A.2 to 48A.2 in 128.7.1.8.	Cl 127 SC 127.2 P 67 L 21 # i-78 RAN, ADEE Intel Corporation Comment Type TR Comment Status A					
Change 36A.4 to 48A.4 in 128.7.2.1. Change similarly in other places if I missed some. Response Response Status U ACCEPT.	The PCS used in a PHY that uses auto-negotiation has to support Auto-negotiation by additional primitive AN_LINK.indication(link_status) to inform the AN of the PCS status (see 73.9.1). See for example 48.2.7, 49.2.16, 107.4.					
C/ 128 SC 128.10.3 P 119 L 25 # [-76 RAN, ADEE Intel Corporation	SuggestedRemedy Add a new subclause to clause 127 with contents based on one of the subclauses listed above.					
Comment Type TR Comment Status A Signal detect is mandatory for EEE (per 128.6.4). Its status should be LPI:M. SuggestedRemedy	The appropriate place seems to be after 127.2.2 "Functions within the PCS". Response Response Status U ACCEPT IN PRINCIPLE.					
Change status of item SD to LPI:M and Support to "Yes" / "N/A". Response Response Status U ACCEPT.	Just above the subclause header, "127.2.3 Use of code-groups", insert new subclause shown below: (subclauses below this one will be renumbered) 127.2.2 PCS used with 2.5GBASE-KX PMD					
	The following requirements apply to a PCS used with a 2.5GBASE-KX PMD. Support for the Auto-Negotiation process defined in Clause 73 is mandatory. The PCS shall support the primitive AN_LINK.indication(link_status) (see 73.9). The parameter link_status shall take the value FAIL when code_sync_status=FAIL and the value OK when code_sync_status =OK. The primitive shall be generated when the value of link_status					

changes.

V 128 SC 128.10.4.3 P 122 L 4 # [i-79] AN, ADEE Intel Corporation	C/ 128 SC 128.10.4.3 P 122 L 19 # i-82 RAN, ADEE Intel Corporation
<i>omment Type</i> TR <i>Comment Status</i> A "5 sec" in TC13 is wrong, should be 5 microseconds. according to the reference subclause.	Comment Type TR Comment Status A "11111111 00000000" is not alternating polarity.
uggestedRemedy Change "sec" to "\mu sec" (Greek letter mu)	The pattern is specified in the referenced subclause. If more detailed definition is required it should be placed there, not in the PICS.
esponse Response Status U ACCEPT.	SuggestedRemedy Delete this pattern from the PICS item.
Image: 128 SC 128.10.4.3 P 122 L 5 # i-80 AN, ADEE Intel Corporation	Response Response Status U ACCEPT IN PRINCIPLE.
<i>comment Type</i> TR <i>Comment Status</i> A Common mode voltage has to be within this range, not equal to the boundaries	Change Value/Comment column to contain: See pattern definition in 128.7.1.8.
uggestedRemedy Change "=" to "within"	C/ 128 SC 128.10.4.3 P 122 L 23 # [i-83 RAN, ADEE Intel Corporation Intel Corporation Intel Corporation
ACCEPT.	Comment Type TR Comment Status A Item TC22 is in the transmitter PICS but refers to 128.7.2 which is a receiver specification.
Image: 128 SC 128.10.4.3 P 122 L 16 # [i-81] AN, ADEE Intel Corporation	There is no "shall" in the referenced subclause and no "transmitter output waveform" specification in this clause.
omment Type TR Comment Status A "Jitter test frame per 52.9.1.1" is not mentioned in the referenced subclause.	SuggestedRemedy Delete item TC22.
ugges <i>tedRemedy</i> Fix to whatever this should be, or delete item	Response Response Status U ACCEPT.
esponse Response Status U ACCEPT IN PRINCIPLE.	
Change the 'Feature' column to read: 'Jitter test pattern' (singular).	
Change the 'Value/Comment' column to read:	
As defined in 36A.2.	

C/ 128 SC 128.7.2.1 RAN, ADEE	P 115 Intel Corporation	L 37	# <u>i-84</u>	Cl 128A SC 128A Healey, Adam	.3.1.7	P 175 Broadcom Ltd.	L 12	# <u>i-86</u>
Is there a reason that the 7 (10GBASE-KX4)? I was KX4.	Comment Status A parameters specified here are assuming this should be a si noise here is 10.2 mV RMS w	ngle-lane de	rivative of 10GBASE-	Table 128A-2 [for t	he host only]. Tab g a specific value	alizer from 93A.1 le 128A-2 specif for gDC is given.	ies a range of Also, 128A.3.	using the values from values for gDC but no 1 and its subclauses nost only" seems
supposed to be stronger? SuggestedRemedy	uirements of this clause requable 71-7. If this is intentional			of gDC that maxim for 130A.3.6 and 13 of 128A.3.1.7.	izes the SNDR wa 30A.5.3. In additio	is intended)? Thi n, remove the ph	is criteria also	nge (perhaps the valu needs to be provided nost only" from item b)
Response ACCEPT IN PRINCIPLE. Change value to 8.1.	Response Status C			be used to satisfy t	ial license, that ar he SNDR requirer	iy gDC value in t nent. Make simil	ar changes in	by Table 128A-2 may 130A.3.6 and 130A.5.
· · · //·	P 123 Intel Corporation Comment Status A does not exist. Clause 59 is fo	L 10	# <u>i-85</u>	In addition, remove	e the phrase for tr	ie nost only from	n item d) of 12	84.3.1.7.
SuggestedRemedy Use the right reference.	ould be the one in 46A.4 (per Response Status U	another cor	nment).					
ACCEPT.								

· · · · · · · · · · · · · · · · · · ·					
2/ 129 SC 129.1.2 P 125 L 23 # i-87	C/ 129 SC 129.2 P 127 L 32 # <u>i-89</u>				
AN, ADEE Intel Corporation	RAN, ADEE Intel Corporation				
comment Type TR Comment Status A	Comment Type TR Comment Status A				
In 45.2.3.13.4 it is stated that hi_ber indicates a BER>=1e-4. This meaning was maintained in several PCS definitions (e.g. clauses 49, 82, 107) by choosing the timers and counter thresholds appropriately.	The PCS used in a PHY that uses auto-negotiation has to support Auto-negotiation by additional primitive AN_LINK.indication(link_status) to inform the AN of the PCS status (see 73.9.1).				
This PCS has half the data rate of 10GBASE-R, so the exception of hi_ber asserted when reaching 32 in the same time period effectively enables 4 times higher BER before hi_ber	See for example 48.2.7, 49.2.16, 107.4.				
is asserted, compared to 10GBASE-R.	Strangely, there is a PICS table for this requirement, although it is not stated in the clause body.				
In 129.2.1 it is stated that the maximum is 16, but the period is 250 microseconds, which contradicts the statement here (and seems to be more correct).	SuggestedRemedy				
	Add a new subclause to clause 129 with contents based on one of the subclauses listed				
The BER PICS item is still in contradiction.	above.				
Note that in 107.2 (PCS for 25GBASE-R, which also changes the hi_ber function) the definitions of 125us_timer, ber_cnt, and hi_ber are modified together.	The appropriate place seems to be at the end of 129.2.				
SuggestedRemedy	Use the new clause as reference for the PICS items in 129.7.6.5.				
Change this subclause to align it with the definitions in 129.2.1, that is, a count up to 16 in	Response Response Status U				
a period of 250 microseconds.	ACCEPT IN PRINCIPLE.				
Change the BER PICS item similarly.	At the end of 129.2, add a new subclause that says:				
Consider defining all related variables that may need to change, as in 107.2.					
Response Response Status U	129.new PCS used with 5GBASE-KR PMD				
ACCEPT IN PRINCIPLE.	The following requirements apply to a PCS used with a 5GBASE-KR PMD. Support for the				
Change this subclause to align it with the definitions in 129.2.1, that is, a count up to 16 in a period of 250 microseconds. <done></done>	Auto-Negotiation process defined in Clause 73 is mandatory. The PCS shall support the primitive AN_LINK.indication(link_status) (see 73.9). The parameter link_status shall tak the value FAIL when PCS_status=false and the value OK when PCS_status=true. The primitive shall be generated when the value of link_status changes.				
Change the BER PICS item similarly.<129.7.3>					
V 129 SC 129.1.3 P 126 L 15 # i-88	Update PICs 129.7.6.4, row AN2, to reflect this change in the Value/Comment column.				
AN, ADEE Intel Corporation					
Comment Type E Comment Status A This is the PCS/PMA subclause, so these sublayers should be shaded in the diagram.					
See for example Figure 82-1.					
See for example Figure 62-1.					
per comment.					
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: Comment ID

C/ 129 SC 129 RAN, ADEE	P.7.3 P 133 Intel Corpor	L 16 ation	# <u>i-90</u>	C/ 130 RAN, ADE	SC 130.1 E	P 137 Intel Corpora	L 28 ation	# <u>i-92</u>
Comment Type G	R Comment Status A			Comment	Type G	Comment Status A		
Item JTM has sta	atus "PMA:M" but PMA is not a de	efined option.				d "Overview", but more than	half of its text dis	cussed technical detail
It is unclear what	"supports test pattern mode" me	ans when its refer	ence is the whole	of EEI	E, which is an op	otional feature.		
clause 49.						, a feature should be describ subclause. There is a dedicat		
Many other PICS	items are conditional on JTM, so	they all become	ill-defined.	Suggestee	dRemedy			
of the 10GBASE item. If it did have	ludes the statement: "The 5GBAS R PCS specified in Clause 49." 1 e one, it could remove the need for nd have no explicit equivalents in	This statement doe or many items that	es not have a PICS	"A 5G option	BASE-KR PHY	of 130.1, keep the first sente with the optional Energy-Effi w Power Idle (LPI) mode to	cient Ethernet (El	
uggestedRemedy				Move	the rest of the p	aragraph to 130.6.10, with e	ditorial license to	rephrase if necessary.
	S to make it clear and consistent.	The major option	s and conditions must	Response	•	Response Status C		,,
be well defined.				•	PT IN PRINCIP	•		
Add a mandatory included in claus	PICS item for the quoted statem e 49.	ent that would cov	ver all the requirements	In the	last paragraph o below.	of 130.1, keep the first sente	nce only. Move th	ne remain text, as
PICS must alway removing the PIC	rs have a reference. If the referen CS item.	ce is in clause 49	then consider	Add th	ne following text	as a second paragraph at 13	30.6.10:	
esponse ACCEPT IN PRII At 129.7.3, delete	-			and W of the	ake states via t function is optic	responds to the transitions he PMD_TX_MODE and PM nal. EEE neters will be advertised duri	D_RX_MODE re	quests. Implementation
		1.40	#	- descri	bed in 45.2.7.14	laa. The transmitter on the lo	cal device will inf	form the link partner's
/ 129 SC 129 AN, ADEE	0.7.5 P 134 Intel Corpor	L 13 ation	# <u>i-91</u>	the lin		o, refresh and wake. The loca smitter and can change indep		
omment Type G						5		
test pattern mode	o subclause 129.2.1, but the features can operate simultaneously) is		`	<i>C</i> / 130 RAN, ADE	SC 130.6.2	P 141 Intel Corpora	L 35 ation	# i-93
anywhere else in	this clause.			Comment	Type E	Comment Status A		
Likewise for item	SM5.				<i>J I</i> ²	"The use of the word will is o	leprecated and sl	hall not be used when
uggestedRemedy				stating	g mandatory req	uirements; will is only used i	n statements of fa	act".
Delete these item	ns?			This is	s a mandatory re	equirement.		
esponse	Response Status C			Suggested				
ACCEPT IN PRI	•			•••	ge "will" to "shall	".		
At 129.7.3, delete	e the JT3 and SM5 rows.			Response		Response Status C		
						-		_
PE: IR/technical r	equired ER/editorial required GR	//deneral required	I/technical E/editori	al (-)/deneral		Comm	nent ID i-03	Page 22 of 2

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: Comment ID

Comment ID i-93

Page 22 of 37 3/15/2018 6:54:45 PM

this state diagram. Response Response Status C ACCEPT IN PRINCIPLE. IEEE Std 802.3cc(TM)-201x Addubte line times downline times with TX 0.50 PM 1/5/0 is with times with TX 0.50 PM 1/5/0 is with times with titer with titer with titer with times with tit	C/ 130 SC 130.6.4 P 141 L 48 # i-94	C/ FM SC FM P1 L3 # i-96
 2.5G-KX and 5G-KR is undefined nomenclature. This clause is only about 5GBASE-R. Suggested/Remedy Change Tyz 2.5G-KX and 5G-KR* to 'by 5GBASE-R PHYs'. Alternatively, delete these words. Response Response Status U ACCEPT IN PRINCIPLE. Change Tyz 2.5G-KX and 5G-KR* to 'by 5GBASE-R PHYs''. Cit 127 SC 127.2.6.2.1 P 5 L 33 # [:95 Comment Status A The transition from the stater data could potentially replace the following: Suggested/Remedy Comment Status A Comment Status A The transition from the stater data data primer done. Suggested/Remedy Suggested/Remedy (2) On page 1, line 3 ' IEEE Std 802.3-2015/COT 1-200x, liEEE Std 802.3-2015/COT 1-200x, unclet EES Std 802.3-2015/COT 1-200x, unclet EES Std 802.3-2015/COT 1-200x, and IEEE Std 802.3-2015/COT 1-200x, an	AN, ADEE Intel Corporation	Law, David Hewlett Packard Enter
This clause is only about 5GBASE-R. SuggestedRemedy Change 'by 2.5G-KX and 5G-KR' to 'by 5GBASE-R PHYs'. Alternatively, delete these words. Response Response Status U ACCEPT IN PRINCIPLE. Change 'by 2.5G-KX and 5G-KR' to 'by 5GBASE-R PHYs'. Change 'by 2.5G-	51	
This clause is only about 5GBASE-R. Suggested/Remedy Change thy 2.5G-KX and 5G-KR* to 'by 5GBASE-R PHYs*. Alternatively, delete these words. Response Status U ACCEPT IN PRINCIPLE: Change 'by 2.5G-KX and 5G-KR* to 'by 5GBASE-R PHYs*. Critery SC 127.2.6.2.1 P85 L 33 # 95 Comment Status A The transition from the state TX_2.5GPIL_4 to TX_2.5GPIL_5 to TX_2.5GPIL_5 to TX_2.5GPIL_6 and from TX_2.5GPIL_6 from TX_2.5GPIL_5 to TX_2.5GPIL_6 to the 'z_3GPIL_6 to TX_2.5GPIL_7. Note: Tve submitted another comment related to other issues that could potentially replace this state diagram. Response Response Status C Add cthier_done to the transition condition on the TX_2.5GPIL_4 to TX_2.5GPIL_6 from TX_2.5GPIL_5 to TX_2.5GPIL_6 and from TX_2.5GPIL_6 to TX_2.5GPIL_7. Note: Tve submitted another comment related to other issues that could potentially replace this state diagram. Response Response Status C Add cthier_done to the transition condition on the TX_2.5GPIL_4 to TX_2.5GPIL_6 to TX_2.5GPIL_6 to TX_2.5GPIL_6 to TX_2.5GPIL_6 to TX_2.5GPIL_6 to TX_2.5GPIL_7. Note: Tve submitted another comment related to other issues that could potentially replace this state diagram. Response Response Status C ACCEPT IN PRINCIPLE: Add the 'og_timer_done' transition condition on the TX_2.5GPIL_4/5/6 transition arrows, as shown on TX_2.5GPIL_0/1/2 transition arrows. Response Response Status C ACCEPT IN PRINCIPLE: Replace redundant information on lines 2 to 5 with the following phrase (all on one line):	"2.5G-KX and 5G-KR" is undefined nomenclature.	
SuggestedRemedy Change "by 2.5G-KX and 5G-KR" to "by 5GBASE-R PHYs". Atternatively, delete these words. Response Response Status U ACCEPT IN PRINCIPLE. Change "by 2.5G-KX and 5G-KR" to "by 5GBASE-R PHYs". C/I 127 SC 127.26.2.1 P 85 L 33 # 195 Comment Type T Comment Status A The transition from the state TX_2.5GPIL_5, from TX_2.5GPIL_5, from TX_2.5GPIL_5, from TX_2.5GPIL_6, and from TX_2.5GPIL_5, from TX_2.5GPIL_6, and from TX_2.5GPIL_6, to TX_2.5GPIL_7. Note: I've submitted another comment related to other issues that could potentially replace this state diagram. Response Response Status C ACCEPT IN PRINCIPLE. Add cg_timer_done to the transition from TX_2.5GPIL_6 to TX_2.5GPIL_7. Note: I've submitted another comment related to other issues that could potentially replace this state diagram. Response Response Status C ACCEPT IN PRINCIPLE. Add dt he "og_timer_done" transition condition on the TX_2.5GPIL_4/5/6 transition arrows, as shown on TX_2.5GPIL_0/1/2 transition arrows. Response Response Status C ACCEPT IN PRINCIPLE. Add the "og_timer_done" transition condition on the TX_2.5GPIL_4/5/6 transition arrows, as shown on TX_2.5GPIL_0/1/2 transition arrows. C	This clause is only about 5GBASE-R.	
Suggest that: Alternatively, delete these words. Response Response Status ACCEPT IN PRINCIPLE. Change 'by 2.5G-KX and 5G-KR' to 'by 5GBASE-R PHYs'. CI 127 SC 127.2.6.2.1 P 85 L 33 Hewlett Packard Enter Comment Type T Comment Status A SuggestedRemedy Add cg_timer_done to the transition from TX_2.5GPIL_5, from TX_2.5GPIL_6 to TX_2.5GPIL_7. Add cg_timer_donet transition condition on the TX_2.5GPIL_15, from TX_2.5GPIL_6 to TX_2.5GPIL_6 to TX_2.5GPIL_7. Add the 'cg_timer_donet' transition condition on the TX_2.5GPIL_4/5/6 transition arrows, as shown on TX_2.5GPIL_0/1/2 transition arrows. <	SuggestedRemedy	•
Atternatively, delete these words. Response Response Status U ACCEPT IN PRINCIPLE. Change 'by 2.5G-KX and 5G-KR' to 'by 5GBASE-R PHys'. C/1 27 SC 127.2.6.2.1 P85 L33 # 195 C/1 27 SC 127.2.6.2.1 P85 L33 # 195 Comment Type T Comment Status A The transition from the state TX_2.5GPIL_5 to TX_2.5GPIL_5 t	Change "by 2.5G-KX and 5G-KR" to "by 5GBASE-R PHYs".	
Response Response Status U ACCEPT IN PRINCIPLE. Change 'by 2.5G-KX and 5G-KR* to 'by 5GBASE-R PHYs*. C/ 127 SC 127.2.6.2.1 P 85 L 33 # [:95 Comment Type T Comment Status A Comment Type T Comment Status A The transition from the state TX_2.5GPIL_6 to TX_2.5GPIL_5, from TX_2.5GPIL_5 to TX_2.5GPIL_6 to TX_2.5GPIL_6 to TX_2.5GPIL_7 'n Figure 127.4 'PCS Word Encode and Word-to-Octets state diagram' should all be qualified by cg-timer_done. [3] On page 1, lines 27. through 33, delete text related to IEEE P802.3bt-20xx and IEEE Std 802.3cc (TM)-20x.' SuggestedRemedy Add cg_timer_done to the transition from TX_2.5GPIL_6 to TX_2.5GPIL_7.' [3] On page 1, lines 27. through 33, delete text related to IEEE P802.3bt-20x and insert the following: Response Response Status C AcCEPT IN PRINCIPLE. [4] On page 1, lines 20. through 46, delete text related to IEEE Std 802.3-2015/Cor 1-2017 This corrigendum clarifies which lane of the media dependent interface (MDI) of a multilane Physical Layer entity (PHY) is used as the timestamping reference point. [4] On page 1, lines 20. through 46, delete text related to IEEE Std 802.3-2015/Cor 1-200 Response Response Status C AcCEPT IN PRINCIPLE. [4] On page 1, lines 20 through 46, delete text related to IEEE Std 802.3-2015/Cor 1-200	Alternatively, delete these words.	Suggest that:
ACCEPT IN PRINCIPLE. Change "by 2.5G-KX and 5G-KR" to "by 5GBASE-R PHYs". CI 127 SC 127.2.6.2.1 P85 L33 # 1-95 Law, David Hewlett Packard Enter Comment Type T Comment Status A The transition from the state TX_2.5GPII_5, from TX_2.5GPII_5 to TX_2.5GPII_6, and from TX_2.5GPII_7 in Figure 127-4 'PCS Word Encode and Word-to-Octets state diagram' should all be qualified by cg_timer_done. SuggestedRemedy Add cg_timer_done to the transition from TX_2.5GPII_6 to TX_2.5GPII_7. Note: I've submitted another comment related to other issues that could potentially replace this state diagram. Response Response Status C ACCEPT IN PRINCIPLE. Add the "cg_timer_done" transition condition on the TX_2.5GPII_4/5/6 transition arrows, as shown on TX_2.5GPII_0/1/2 transition arrows.		
Change "by 2.5G-KX and 5G-KR" to "by 5GBASE-R PHYs". C/1 127 SC 127.2.6.2.1 P85 L.33 # 1-95 Comment Type T Comment Status A The transition from the state TX_2.5GPIL_4 to TX_2.5GPIL_5 from TX_2.5GPIL_5 in to TX_2.5GPIL_7 in Figure 127.4 PCS Word Encode and Word-to-Octets state diagram' should all be qualified by cg_timer_done. SuggestedRemedy Add cg_timer_done to the transition from TX_2.5GPIL_6 in afrom TX_2.5GPIL_5 from TX_2.5GPIL_6 in afrom TX_2.5GPIL_6 in afrom TX_2.5GPIL_7 in Figure 127.4 PCS Word Encode and Word-to-Octets state diagram' should all be qualified by cg_timer_done. SuggestedRemedy Add cg_timer_done to the transition from TX_2.5GPIL_6 in TX_2.5GPIL_7. Note: I've submitted another comment related to other issues that could potentially replace this state diagram. Response Response Status C ACCEPT IN PRINCIPLE. Add the "cg_timer_done" transition arrows. as shown on TX_2.5GPIL_0/1/2 transition arrows.		
 [2] On page 1, line 31¹ IEEE Std 802.3bv-2017, IEEE St	Change "by 2 5G KY and 5G KP" to "by 5GRASE P PHYs"	
Law, David Hewlett Packard Enter Comment Type T Comment Status A The transition from the state TX_2.5GPIL 6, to TX_2.5GPIL 5, from TX_2.5GPIL 5, from TX_2.5GPIL 6, to TX_	,	[2] On page 1, line 31 ' IEEE Std 802.3bv-2017, IEEE Std 802.3bt-20xx, IEEE Std
Comment Type T Comment Status A 802.3cc-20xx.'. The transition from the state TX_2.5GPII_6 to TX_2.5GPII_5, from TX_2.5GPII_5 to TX_2.5GPII_6, and from TX_2.5GPII_7 in Figure 127.4 'PCS Word Encode and Word-to-Octets state diagram' should all be qualified by cg_timer_done. 802.3cc-20xx.'. SuggestedRemedy Add cg_timer_done to the transition from TX_2.5GPII_6 to TX_2.5GPII_6 to TX_2.5GPII_7. IEEE Std 802.3(TM)-2015/Cor 1-2017 Note: I've submitted another comment related to other issues that could potentially replace this state diagram. C Response Response Status C ACCEPT IN PRINCIPLE. Add the "cg_timer_done" transition condition on the TX_2.5GPII_4/5/6 transition arrows. IEEE Std 802.3cc(TM)-201x This amendment includes changes to IEEE Std 802.3-2015 and adds Clause 114. This amendment adds 25 Gb/s Physical Layer specifications and management parameters for operation over single-mode fiber. Response Response Status C ACCEPT IN PRINCIPLE. Response Status C ACCEPT IN PRINCIPLE. Add the "cg_timer_done" transition arrows. Response Response Status C C ACCEPT IN PRINCIPLE. Response Status C Response Response Status C ACCEPT IN PRINCIPLE. Replace redundant information on lines 2 to 5 with the following phrase (all on one line):		
The transition from the state TX_2.5GPII_6 to TX_2.5GPII_5, from TX_2.5GPII_5 to TX_2.5GPII_6, and from TX_2.5GPII_6 to TX_2.5GPII_7 in Figure 127-4 'PCS Word Encode and Word-to-Octets state diagram' should all be qualified by cg_timer_done. SuggestedRemedy Add cg_timer_done to the transition from TX_2.5GPII_6 to TX_2.5GPII_5, from TX_2.5GPII_6, and from TX_2.5GPII_6, and from TX_2.5GPII_7. Note: I've submitted another comment related to other issues that could potentially replace this state diagram. Response Response Status C ACCEPT IN PRINCIPLE. Add the "cg_timer_done" transition condition on the TX_2.5GPII_4/5/6 transition arrows, as shown on TX_2.5GPII_0/1/2 transition arrows. IEEE Std 802.3cc(TM)-201x This amendment includes changes to IEEE Std 802.3-2015 and adds Clause 114. This amendment adds 25 Gb/s Physical Layer specifications and management parameters for operation over single-mode fiber. Response Response Status C ACCEPT IN PRINCIPLE.		
TX_2.5GPII_6, and from TX_2.5GPII_7 in Figure 127-4 'PCS Word the following: SuggestedRemedy IEEE Std 802.3(TM)-2015/Cor 1-2017 Add cg_timer_done to the transition from TX_2.5GPII_4 to TX_2.5GPII_7. This corrigendum clarifies which lane of the media dependent interface (MDI) of a multilane Physical Layer entity (PHY) is used as the timestamping reference point. Note: I've submitted another comment related to other issues that could potentially replace this state diagram. IEEE Std 802.3(CTM)-2015/Cor 1-2017 Response Response Status C ACCEPT IN PRINCIPLE. Add the "cg_timer_done" transition condition on the TX_2.5GPII_4/5/6 transition arrows, as shown on TX_2.5GPII_0/1/2 transition arrows. IEEE Std 802.3cc(TM)-201x This amendment includes changes to IEEE Std 802.3-2015 and adds Clause 114. This amendment includes changes to IEEE Std 802.3-2015 and adds Clause 114. This amendment adds 25 Gb/s Physical Layer specifications and management parameters for operation over single-mode fiber. Response Response Status C Add the "cg_timer_done" transition arrows. Response Sta	51	
Encode and Word-to-Octets state diagram' should all be qualified by cg_timer_done. SuggestedRemedy Add cg_timer_done to the transition from TX_2.5GPII_4 to TX_2.5GPII_5, from TX_2.5GPII_6, and from TX_2.5GPII_6 to TX_2.5GPII_7. Note: I've submitted another comment related to other issues that could potentially replace this state diagram. Response Response Status C ACCEPT IN PRINCIPLE. Add the "cg_timer_done" transition condition on the TX_2.5GPII_4/5/6 transition arrows, as shown on TX_2.5GPII_0/1/2 transition arrows. BEEE Std 802.3cc(TM)-2015/Cor 1-2017 This corrigendum clarifies which lane of the media dependent interface (MDI) of a multi- lane Physical Layer entity (PHY) is used as the timestamping reference point. [4] On page 13, lines 42 through 46, delete text related to IEEE Std 802.3-2015/Cor 1-200 and insert the following: IEEE Std 802.3cc(TM)-201x This amendment includes changes to IEEE Std 802.3-2015 and adds Clause 114. This amendment adds 25 Gb/s Physical Layer specifications and management parameters for operation over single-mode fiber. Response Response Status C ACCEPT IN PRINCIPLE.		
Suggested/emedy Add cg_timer_done to the transition from TX_2.5GPII_4 to TX_2.5GPII_5, from TX_2.5GPII_6 to TX_2.5GPII_6, and from TX_2.5GPII_7. Note: I've submitted another comment related to other issues that could potentially replace this state diagram. Response Response Status ACCEPT IN PRINCIPLE. Add the "cg_timer_done" transition condition on the TX_2.5GPII_4/5/6 transition arrows, as shown on TX_2.5GPII_0/1/2 transition arrows. Response Response Status C Response Status C Response C Response Response Status C Response Response Response Status C Response Status C Response Response Response Status C Replace redundan		
TX_2.5GPII_5 to TX_2.5GPII_6, and from TX_2.5GPII_6 to TX_2.5GPII_7. Note: I've submitted another comment related to other issues that could potentially replace this state diagram. Response Response Status ACCEPT IN PRINCIPLE. Add the "cg_timer_done" transition condition on the TX_2.5GPII_4/5/6 transition arrows. Add the "cg_timer_done" transition arrows. Add the "cg_timer_done" transition arrows. Response Response to IEEE Std 802.3-2015 and adds Clause 114. This amendment includes changes to IEEE Std 802.3-2015 and adds Clause 114. This amendment adds 25 Gb/s Physical Layer specifications and management parameters for operation over single-mode fiber. Response Response Status C ACCEPT IN PRINCIPLE. Add the "cg_timer_done" transition arrows. Response to IEEE Std 802.3-2015 and adds Clause 114. This amendment adds 25 Gb/s Physical Layer specifications and management parameters for operation over single-mode fiber. Response Response Status C ACCEPT IN PRINCIPLE. Replace redundant information on lines 2 to 5 with the following phrase (all on one line):	SuggestedRemedy	IEEE Std 802.3(TM)-2015/Cor 1-2017
this state diagram. Response Response Status C ACCEPT IN PRINCIPLE. Add the "cg_timer_done" transition condition on the TX_2.5GPII_4/5/6 transition arrows, as shown on TX_2.5GPII_0/1/2 transition arrows. Here and insert the following: IEEE Std 802.3cc(TM)-201x This amendment includes changes to IEEE Std 802.3-2015 and adds Clause 114. This amendment adds 25 Gb/s Physical Layer specifications and management parameters for operation over single-mode fiber. Response Response Status C ACCEPT IN PRINCIPLE. Response Response Status C ACCEPT IN PRINCIPLE. Replace redundant information on lines 2 to 5 with the following phrase (all on one line):		
ACCEPT IN PRINCIPLE. Add the "cg_timer_done" transition condition on the TX_2.5GPII_4/5/6 transition arrows, as shown on TX_2.5GPII_0/1/2 transition arrows. HEE Std 802.3cc(1M)-201x This amendment includes changes to IEEE Std 802.3-2015 and adds Clause 114. This amendment adds 25 Gb/s Physical Layer specifications and management parameters for operation over single-mode fiber. Response Response Status C ACCEPT IN PRINCIPLE. Replace redundant information on lines 2 to 5 with the following phrase (all on one line):		[4] On page 13, lines 42 through 46, delete text related to IEEE Std 802.3-2015/Cor 1-20x and insert the following:
ACCEPT IN PRINCIPLE. Add the "cg_timer_done" transition condition on the TX_2.5GPII_4/5/6 transition arrows, as shown on TX_2.5GPII_0/1/2 transition arrows. This amendment adds 25 Gb/s Physical Layer specifications and management parameters for operation over single-mode fiber. <i>Response Response Status</i> C ACCEPT IN PRINCIPLE. Replace redundant information on lines 2 to 5 with the following phrase (all on one line):	Response Response Status C	IEEE Std 802 3cc/TM)-201x
Add the "cg_timer_done" transition condition on the TX_2.5GPII_4/5/6 transition arrows, as shown on TX_2.5GPII_0/1/2 transition arrows. shown on TX_2.5GPII_0/1/2 transition arrows. <i>Response Status C</i> ACCEPT IN PRINCIPLE. Replace redundant information on lines 2 to 5 with the following phrase (all on one line):	ACCEPT IN PRINCIPLE.	
ACCEPT IN PRINCIPLE. Replace redundant information on lines 2 to 5 with the following phrase (all on one line):		amendment adds 25 Gb/s Physical Layer specifications and management parameters for
Replace redundant information on lines 2 to 5 with the following phrase (all on one line):		Response Response Status C
		ACCEPT IN PRINCIPLE.
(Amendment of IEEE Std 802.3 [™] -2015)		Replace redundant information on lines 2 to 5 with the following phrase (all on one line):
		(Amendment of IEEE Std 802.3 [™] -2015)

C/FM SC FM	P 8	L 14	# i-97	C/ 127 SC	127.2.4.2	P 69	L 25	# <u>i-100</u>
aw, David	Hewlett Packa	ard Enter		Law, David		Hewlett Pack	ard Enter	
IEEE 802.3 working gr the IEEE P802.3xx wo SuggestedRemedy Add a footnote to Yong	Comment Status A B reads 'The following individu oup at the beginning of rking group ballot' two officers	s weren't membe ads 'Not a mem	ers at that time.	Table 127-3 '\	Word Encoc and S3 as c	Comment Status A ta S2' and 'Prev Data S3' le mapping' are not define alculated by equation 127	d anywhere. The	y seem to refer to the
working group at the b Response ACCEPT.	eginning of the working group Response Status C	ballot.'.		[2] Add a foot 13.4) that read	note to the t ds 'Previous	ged to read 'Previous Dat able, which is normative (Data S2 and previous Dat by equation 127-1 during	(see IEEE-SA Sty ata S3 are the va	lues of S2 and S3
C/ FM SC FM aw, David	P 8 Hewlett Packa	L 4 ard Enter	# i-98	Response ACCEPT.		Response Status C		11 5
Comment Type E Need to add project de SuggestedRemedy Suggest that the text '. IEEE P802.3cb workin	of the IEEE P802.3xx worki	ng' be change	ed to read ' of the	Law, David Comment Type	127.2.6.1.7 T of cg_timer	P 84 Hewlett Pack Comment Status A state that 'If XGMII is imp		# [i-101
Response ACCEPT.	Response Status C			46.3.1.1).'. Su synchronously	iggest that i y with the ris	sing edge of TX_CLK (see t should be made clear th sing edge of TX_CLK as v ion of the TX_CLK cycle i	at in this case the vell as seven othe	e timer expires er times between the
Cl 127 SC 127.2.4.2 aw, David Comment Type E Typo	P 69 Hewlett Packa Comment Status A	L 8 ard Enter	# [<u>i-99</u>	SuggestedRemed Suggest that t XGMII is impl	ly the second emented, co	ion of the TX_CLK cycle sentence of the cg_timer g_timer shall expire synch th of the TX_CLK cycle til	definition be char ronously with the	nged to read 'If the rising edge of TX_CLK
SuggestedRemedy Suggest that 'Data Boi Response ACCEPT.	' in the Lane 1 column sho Response Status C	uld read 'Data B	or'.	Response ACCEPT.		Response Status C		

X 127 SC 127.2.6.2.2 P 87 L 2 # i-102 aw, David Hewlett Packard Enter	C/ 127 SC 127.2.6.2.2 P 86 L 16 # i-104 Law, David Hewlett Packard Enter Hewlett Packard Enter Hewlett Packard Enter Hewlett Packard Enter
Comment Type TR Comment Status A On the transition from the state TX_TEST_XMIT to XMIT_DATA and the transition from	Comment Type E Comment Status A
XMIT_DATA to ALIGN_ERR_START the condition uses the variables 'tx_en' and 'tx_er', the transition from the state END_OF_PACKET_EXT to EXTEND_BY_1 uses the variable 'tx_er'. These variables are not defined and are not used anywhere else, suggest they should be 'tp_en' and 'tp_er'.	Typo. SuggestedRemedy In the SPECIAL_GO state rather than use a '<' and '=' character to form a '<=' the assignment operator symbol, character code ALT-0220 Symbol font (keystrokes Ctrl-q \ ir Framemaker) should be used.
iggestedRemedy Suggest that:	Response Response Status C ACCEPT.
 [1] On the transition from the state TX_TEST_XMIT to XMIT_DATA the condition should read 'tp_en=0 * tp_er=0'. [2] On the transition from the state XMIT_DATA to ALIGN_ERR_START the condition should read 'tp_en=1 * tp_er=1'. 	C/ 127 SC 127.2.6.2.6 P 93 L 20 # [-106 Law, David Hewlett Packard Enter Hewlett Packard Enter Hewlett Packard Enter Hewlett Packard Enter
[3] On the transition from the state END_OF_PACKET_EXT to EXTEND_BY_1 the condition should read ' tx_er=1 * TX_OSET.indicate'. esponse Response Status C ACCEPT.	Comment TypeEComment StatusAThere are two table 127-4s, one on page 71 and one on page 93, similarly there are two table 127-5s, one on page 73 and one on page 93, looks like the table number gets reset to table 127-4 again after the first table 127-5.
127 SC 127.2.6.2.2 P 87 L 3 # i-103	SuggestedRemedy Renumber the second instances of table 127-4 and 127-5 as 127-6 and 127-7.
ww, David Hewlett Packard Enter comment Type TR Comment Status In the equation in the transition from XMIT_DATA back to XMIT_DATA the condition 'tp_en_0' should read 'tp_en=0'.	Response Response Status C ACCEPT.
ggestedRemedy In the equation in the transition from XMIT_DATA back to XMIT_DATA the condition 'tp_en_0' should read 'tp_en=0'.	Law, David Hewlett Packard Enter Comment Type T Comment Status A Suggest that 'Lane 0' through 'Lane 3' be clearly defined in this table and Table 127-4.
ACCEPT.	Suggest that:
	 [1] The text (page 68, line 48) ' maps the four XGMII lanes onto four 2.5GPII symbols be changed to read ' maps the four XGMII lanes (see Table 46-2) onto four 2.5GPII symbols'. [2] The text {page 70, line 50) ' process maps the four 2.5GPII symbols onto the four XGMII lanes' be changed to read ' process maps the four 2.5GPII symbols onto the four XGMII lanes' be changed to read ' process maps the four 2.5GPII symbols onto the four XGMII lanes'.
	Response Response Status C ACCEPT.

C/ 127	SC 127.2.4.2	P 69	L 5	# <u>i-</u> 108	2.5GPII <3>
Law, David	ł	Hewlett Pac	kard Enter		be changed to read
Table [·] anywh	see 2.5GPII<0>, 2.5GF 127-3 'Word Encode ma ere. Instead according t	apping' and Table 12 to Figure 127-2 'Fund	27-4 'Word Decod	le mapping' defined	wd_tpd<31:24> we_tp_en<3> we_tp_er<3>
	Word decode function is				[2] In Table 127-4:
Suggested Sugge	<i>Remedy</i> st that:				[a] The heading
[1] In T	Table 127-3:				2.5GPII <0>
	e heading				be changed to read
2.5GP	II <0>				wd_rpd<7:0> we_rp_en<0> we_rp_er<0>
be cha	inged to read				wc_ip_01<02
wd_tpo we_tp	d<7:0> _en<0>				[b] The heading
we_tp_	—				2.5GPII <1>
[b] The	e heading				be changed to read
2.5GP	ll <1>				wd_rpd<15:8> we_rp_en<1>
be cha	inged to read				we_rp_er<1>
— •	d<15:8> _en<1>				[d] The heading
we_tp_					2.5GPII <2>
[d] The	e heading				be changed to read
2.5GP	-				wd_rpd<23:16> we_rp_en<2>
be cha	inged to read				we_rp_er<2>
	d<23:16>				[e] The heading
we_tp_ we_tp_	_en<2> _er<2>				2.5GPII <3>
[e] The	e heading				be changed to read
					wd_rpd<31:24>

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: Comment ID

Backplane Initial Sponsor ballot comments

we_rp_en<3> we_rp_er<3>				С
Response	Response Status C			La
ACCEPT.				С
C/ 127 SC 127.2.4	-	L 40	# i-109	
Law, David	Hewlett Packard	Enter		S
set of tp_en, tp_er, tp variables on the rece paragraph that reads	Comment Status A f subclause 127.2.4.1 that reads od<7:0> variables on the transmit ive path.' is somewhat duplicative 'The 2.5GPII consists of the follo er, rpd<7:0> and its encoding is s	path, and rp_c of the first ser wing variables	lv, rp_er, rpd<7:0> ntence of the third : tp_en, tp_er,	R
SuggestedRemedy				С
Suggest that:				La
[1] The first paragrap	h is deleted so that the subclause	starte with the	high lovel description	С
in the second paragra [2] The first sentence defined to be a set of	h is deleted so that the subclause aph that reads 'The 2.5 Gb/s PCS of the third paragraph be change tp_en, tp_er, tpd<7:0> variables bles on the receive path.'.	Internal Interf	ace (2.5GPII) is a'. 5GPII symbol is	С
In the second paragra [2] The first sentence defined to be a set of rp_er, rpd<7:0> varia	aph that reads 'The 2.5 Gb/s PCS of the third paragraph be change	Internal Interf	ace (2.5GPII) is a'. 5GPII symbol is	S
in the second paragra [2] The first sentence defined to be a set of rp_er, rpd<7:0> varia <i>Response</i> ACCEPT.	aph that reads 'The 2.5 Gb/s PCS of the third paragraph be change tp_en, tp_er, tpd<7:0> variables bles on the receive path.'. <i>Response Status</i> C	Internal Interf	ace (2.5GPII) is a'. 5GPII symbol is	
in the second paragra [2] The first sentence defined to be a set of rp_er, rpd<7:0> varia <i>Response</i> ACCEPT. Cl 127 SC 127.2.2	aph that reads 'The 2.5 Gb/s PCS of the third paragraph be change tp_en, tp_er, tpd<7:0> variables bles on the receive path.'. <i>Response Status</i> C	to read 'A 2. on the transmi	ace (2.5GPII) is a'. 5GPII symbol is it path, and rp_dv,	
in the second paragra [2] The first sentence defined to be a set of rp_er, rpd<7:0> varia Response ACCEPT. C/ 127 SC 127.2.2 Law, David Comment Type E	aph that reads 'The 2.5 Gb/s PCS of the third paragraph be change tp_en, tp_er, tpd<7:0> variables bles on the receive path.'. <i>Response Status</i> C <i>P</i> 66	to read 'A 2. on the transmi	ace (2.5GPII) is a'. 5GPII symbol is it path, and rp_dv,	S
in the second paragra [2] The first sentence defined to be a set of rp_er, rpd<7:0> varia Response ACCEPT. C/ 127 SC 127.2.2 Law, David Comment Type E Spurious full stop.	aph that reads 'The 2.5 Gb/s PCS of the third paragraph be change tp_en, tp_er, tpd<7:0> variables bles on the receive path.'. <i>Response Status</i> C <i>P</i> 66 Hewlett Packard	to read 'A 2. on the transmi	ace (2.5GPII) is a'. 5GPII symbol is it path, and rp_dv,	S R _ C
in the second paragra [2] The first sentence defined to be a set of rp_er, rpd<7:0> varia Response ACCEPT. Cl 127 SC 127.2.2 Law, David Comment Type E Spurious full stop. SuggestedRemedy	aph that reads 'The 2.5 Gb/s PCS of the third paragraph be change tp_en, tp_er, tpd<7:0> variables bles on the receive path.'. <i>Response Status</i> C <i>P</i> 66 Hewlett Packard	to read 'A 2. on the transmi <i>L</i> 49 Enter	ace (2.5GPII) is a'. 5GPII symbol is it path, and rp_dv, # <u>i-110</u>	S
in the second paragra [2] The first sentence defined to be a set of rp_er, rpd<7:0> varia Response ACCEPT. Cl 127 SC 127.2.2 Law, David Comment Type E Spurious full stop. SuggestedRemedy The text ' error (we '.	aph that reads 'The 2.5 Gb/s PCS of the third paragraph be change tp_en, tp_er, tpd<7:0> variables bles on the receive path.'. <i>Response Status</i> C <i>P</i> 66 Hewlett Packard <i>Comment Status</i> A	to read 'A 2. on the transmi <i>L</i> 49 Enter	ace (2.5GPII) is a'. 5GPII symbol is it path, and rp_dv, # <u>i-110</u>	S R - C La
in the second paragra [2] The first sentence defined to be a set of rp_er, rpd<7:0> varia Response ACCEPT. Cl 127 SC 127.2.2 Law, David Comment Type E Spurious full stop. SuggestedRemedy The text ' error (we '.	aph that reads 'The 2.5 Gb/s PCS of the third paragraph be change tp_en, tp_er, tpd<7:0> variables bles on the receive path.'. <i>Response Status</i> C <i>P</i> 66 Hewlett Packard <i>Comment Status</i> A _tp_er<3:0>). based' should re	to read 'A 2. on the transmi <i>L</i> 49 Enter	ace (2.5GPII) is a'. 5GPII symbol is it path, and rp_dv, # <u>i-110</u>	S R - C La
in the second paragra [2] The first sentence defined to be a set of rp_er, rpd<7:0> varia Response ACCEPT. CI 127 SC 127.2.2 Law, David Comment Type E Spurious full stop. SuggestedRemedy The text ' error (we '. Response	aph that reads 'The 2.5 Gb/s PCS of the third paragraph be change tp_en, tp_er, tpd<7:0> variables bles on the receive path.'. <i>Response Status</i> C <i>P</i> 66 Hewlett Packard <i>Comment Status</i> A _tp_er<3:0>). based' should re	to read 'A 2. on the transmi <i>L</i> 49 Enter	ace (2.5GPII) is a'. 5GPII symbol is it path, and rp_dv, # <u>i-110</u>	R - C La C

C/ 127	SC 127.2.2	P 66	L 53	# <u>i-</u> 111
Law, David	ł	Hewlett Pack	ard Enter	
Comment	Туре Т	Comment Status A		
00		iated transmit and' should r ated variables should be prov		

receding paragraph, and the spurious space deleted.

estedRemedy

uggest that '... one 2.5GPII symbol and its associated transmit and transmit error at a ...' e changed to read '... one 2.5GPII symbol (tpd<7:0>) and its associated transmit enable p en) and transmit error (tp er) at a ...'.

Response	Response Status	С	
ACCEPT.			

C/ 127	SC 127.2.2	P 67	L 17	# i-112
Law, David		Hewlett	Packard Enter	

ment Type T Comment Status A

ubclause 127.2.2 'Functions within the PCS' states that 'The Word Decode process ontinuously accepts the four 2.5GPII symbols from the Word Alignment process ...' owever I can't find any mention of the Word Alignment process elsewhere. Based on igure 127-2 'Functional block diagram' doesn't the Word Decode process accept 2.5GPII ymbols from the octets-to-word process.

estedRemedy

uggest that the text '... accepts the four 2.5GPII symbols from the Word Alignment rocess ...' should be changed to read '... accepts the four 2.5GPII symbols from the ctets-to-Word process ...'.

Response ACCE	PT.	Response Status	С			
C/ 127	SC 127.2.6.2.1	P 8	5	L 2	# i-113	
Law, David	ł	Hewle	ett Pa	ckard Enter		
<i>Comment</i> The W	51	Comment Status		_XGMII_LO and TX	_XGMII_HI states.	
Suggestea	IRemedy					
00	st that the text ' GMII_LO and TX_>	_	ate.'	be changed to read	' in the	
Response		Response Status	С			

onse

CCEPT.

C/ 127 SC 127.2.4.1 P 68 L 1 # i-114 .aw, David Hewlett Packard Enter	C/ 127 SC 127.2.2 P 67 L 7 # i-116 Law, David Hewlett Packard Enter Hewlett Packard Enter Hewlett Packard Enter Hewlett Packard Enter
Comment Type T Comment Status A According to subclause 127.2.2 'Functions within the PCS' the Word Encode process '	Comment Type E Comment Status A IEEE Std 802.3-2015 subclause 1.2.2.1 'Classification of service primitives' states
generates four 2.5GPII symbols (we_tpd<31:0>) and associated four bits of transmit enable (we_tp_en<3:0>) and four bits of transmit error (we_tp_er<3:0>)' which matches the output of the Word Encode process shown in Figure 127-2 'Functional block diagram'.	'Primitives are of two generic types' listing 'request' and 'indication' and stating 'The indication primitive is passed from layer N-1 to layer N to indicate an internal layer N-1 event that is significant to layer N.' in respect to the letter.
SuggestedRemedy	SuggestedRemedy
Suggest that:	Suggest that:
[1] In the last paragraph of subclause 127.2.4.1 the text ' processes serializes/de- serializes four 2.5GPII symbols to/from' should be changed to read ' processes serializes/de-serializes four 2.5GPII symbols, and their associated enable and error bits,	 [1] All instances of 'SYNC_UNITDATA.indicate' be changed to read 'SYNC_UNITDATA.indication'. [2] All instances of 'TX_OSET.indicate' be changed to read 'TX_OSET.indication'.
to/from'.	Response Response Status C
[2] In the first paragraph of subclause 127.2.4.2 'Word Encode' the text ' onto four	ACCEPT.
2.5GPII symbols as' should be changed to read ' onto four 2.5GPII symbols, and their associated transmit enable and transmit error bits, as'.	C/ 127 SC 127.2.6.1.4 P81 L 19 # 1-117
	Law, David Hewlett Packard Enter
[3] In the first paragraph of subclause 127.2.4.5 'Word Decode' the text ' maps the four 2.5GPII symbols onto the four XGMII lanes' should be changed to read ' maps the four 2.5GPII symbols, and their associated receive data valid and receive error bits, onto the four XGMII lanes'.	Comment Type E Comment Status A Typo.
Response Response Status C	SuggestedRemedy
ACCEPT.	Suggest that 'DECODE ([/x]/)' should read 'DECODE([/x]/)'.
	Response Response Status C
C/127A SC 127A P 165 L 37 # [i-115]	ACCEPT.
aw, David Hewlett Packard Enter	C/ 127 SC 127.2.6.2.6 P94 L 44 # i-118
omment Type T Comment Status A	Law, David Hewlett Packard Enter
Annex 127A states that 'Since the 2.5GBASE-X PCS is attached to a MAC that can send out sequence ordered_set (/Q/)'. Subclause 46.3.4 howeevr states that 'Link fault	Comment Type TR Comment Status A
signaling' states that 'Link fault signaling operates between the remote RS and the local RS'.	The transition from the RX_2.5GPII_3 state to the RX_XGMII and from the RX_XGMII stat
	to the RX_2.5GPII_0 state are both UCT. Due to this the SUDI that causes entry in to the RX_2.5GPII_3 state will result in the same rp_dv, rp_er, rpd<7:0> data being written twice
SuggestedRemedy Suggest that ' attached to a MAC that can send' be changed to read ' attached to a RS that can send'.	by SINSERT function as there is no delay between the RX_2.5GPII_3 and RX_2.5GPII_0 states. In addition there are only three SUDIs, so only three sets of rpd<7:0>, in the loop
Pesponse Response Status C	that is generating the 32 bits to be transferred over RXD<31:0>. SuggestedRemedy
ACCEPT.	Suggest that the transition from RX_2.5GPII_3 to RX_XGMII be changed from UCT to SUDI.
	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: Comment ID

Comment ID i-118

Page 28 of 37 3/15/2018 6:54:45 PM

 An David Hewlett Packard Enter Comment Type TR Comment Status A The note on Table T2-4 states that: Data that corresponds to Stat is only placed on 25 GPI-60 Bid yhen XGMI is implemented: yet according to the RX_XGMI state in Figure 127-9 Octes-6-Vivid and Decode state diagram the VALION function is always be aligned to 2.5 GPI-60 Bid yhen XGMI is implemented: yet according to XAD-51 (b). Since stude that the VDECODE function to generate KQC-30- and XAD-51 (b). Since stude that the VDECODE function to generate KQC-30- and XAD-51 (b). Since stude the note be deleted. Response Response Status C ACCEPT. Y 127 SC 127.2.6.1.4 P62 L 14 # 120 Moving Addition of the cote to refer is not provided in the definition of the oxide role is not provided in the definition of the word role is not provided in the definition of the word role is not provided in the definest wid prod-570- is the earliest to arrive and wd_rpd-31:24- is the latest.' be added as a new third sentence of the first paragraph, before the words 'The SINSERT(p)'. WagnesteRT(p)'. WagnesteRT(p)'. Wagnest-7:0- is the earliest to arrive and wd_rpd-31:24- is the latest.' be added as a new third sentence of the first paragraph, before the words 'The SINSERT(p)'. 	/ 127 SC 127.2.4.5	P 71	L 50	# i <u>-</u> 119	C/ 127	SC 127.2.4.5	P71	L 22	# i-121
Comment Type TR Comment Status A The note on Table 127-4 states that it Data that corresponds to Start is only placed on Figure 127-9 Octest-to-Word and Decode state diagram the WALIGN function is always scaled by the WDECODE function to generate RXC-3X0-s. Since subclause 127.2.6.1.4 states that the WALIGN function, performs the alignment according to 127.2.6.1.4 states that the WALIGN function, performs the alignment according to 127.2.6.1.4 states that the WALIGN function, performs the alignment according to 127.2.6.1.4 states that the WALIGN function, performs the alignment according to 127.2.6.1.4 states that the WALIGN function, performs the alignment according to 127.2.6.1.4 states that the WALIGN function is performed. Suggest that the note be deleted. Response Response Status ACCEPT. 71 127 SC 127.2.6.1.4 P82 L14 # 120 Xound The earliest to arrive and wd_rpd<31:24> is the earliest or arrive and wd_rpd<31:24> is the last.'. Is similar definition of the cotte order is not provided in the definition of the WALIGN function in subclause 127.2.6.1.4. Simce this is the function that defines the Cottes-to-Word process suggest this definition of the cotte order is not provided in the added as a new third sentence of the first paragraph, before the words "The SINSERT(x,": Kade text below as a new 3rd sentence of the first paragraph, before the words "The SINSERT(x,":				# 1-119		00 127.2.4.3			# 1-121
The note on Table 127-4 states that 'Data that corresponds to Start is only placed on 2.6GPIkDs, [sic] when XGMII is implemented. 'yet according to the RX_XGMII state in Figure 127-9 'Octest-to-Word and Decode state digram the WALIGN function is always called by the WDECODE function to generate RXC-3:0> and RXD-31:0>. Since stubilized by the WDECODE function to generate RXC-3:0> and RXD-31:0>. Since stubilized by the WDECODE function to generate RXC-3:0> and RXD-31:0>. Since stubilized by the WDECODE function to generate RXC-3:0> and RXD-31:0>. Since stubilized by the WDECODE function to generate RXC-3:0> and RXD-31:0>. Since stubilized by the WDECODE function to generate RXC-3:0> and RXD-31:0>. Since stubilized by the words that the WALIGN function is alignment according to 127.2.4.4. 'It seems that start will always be aligned to 2.5GPII<0>. ''''''''''''''''''''''''''''''''''''					·				
Suggest that the note be deleted. Response Response Status C ACCEPT. 21 127 SC 127.2.6.1.4 P 82 L 14 # into a model of the status C Aw, David Hewlett Packard Enter Comment Type TR Comment Status A Subclause 127.2.4.4 'Octets-to-Word' states that 'wd_rpd<7:0> is the earliest to arrive and wd_rpd<31:24> is the last.'. A similar definition of the octet order is not provided in the definition of the WALLBOK function in subclause 127.2.6.1.4. The function of the wall (No function in subclause 127.2.6.1.4. NuggestedRemedy Add the text 'wd_rpd<7:0> is the earliest to arrive and wd_rpd<31:24> is the latest.' be added as a new third sentence of the third paragraph. C AccEPT IN PRINCIPLE. Add text below as a new 3rd sentence of the first paragraph, before the words "The SINSERT(x)": C	The note on Table 127-4 : 2.5GPII<0>. [sic] when XC Figure 127-9 'Octets-to-W called by the WDECODE subclause 127.2.6.1.4 sta according to 127.2.4.4.' it	states that 'Data that corre GMII is implemented.' yet a /ord and Decode state dia function to generate RXC- ates that the WALIGN func	according to the gram' the WALIC <3:0> and RXD< tion ' performs	RX_XGMII state in SN function is always 31:0>. Since the alignment	In the th reads !I Boolear that the diagram SuggestedF	ind line of Table DLE. According NOT. Since I symbol be ch operators (cor Remedy	e 127-4 'Word Decode g to subclause 21.5.4 believe the intent is we hange to the not equal ntinued) of IEEE Std 8	e mapping' the wdec Operators' of IEEE decode_state(n) not symbol (see line 4 c 02.3-2015').	Std 802.3-2015 ! is a equal to IDLE, suggest f Table 21-1 'State
ACCEPT. ACC	,	deleted.			00				in be changed to the not
ACCEPT. ACCEPT. A P82 L14 # 120 Av, David Hewlett Packard Enter Accept TR Comment Status A Subclause 127.2.4.4 'Octets-to-Word' states that 'wd_rpd<7:0> is the earliest to arrive and wd_rpd<31:24> is the last.'. A similar definition of the octet order is not provided in the definition of the WALIGN function in subclause 127.2.6.1.4. Since this is the function that defines the Octets-to-Word process suggest this definition of the octet order should be added. <i>SuggestedRemedy</i> Add the text 'wd_rpd<7:0> is the earliest to arrive and wd_rpd<31:24> is the latest.' be added as a new third sentence of the third paragraph. <i>Response Response Status</i> C ACCEPT IN PRINCIPLE. Add text below as a new 3rd sentence of the first paragraph, before the words "The SINSERT(x)":	esponse	Response Status C			Response		Response Status	с	
aw, David Hewlett Packard Enter Comment Type TR Comment Status A Subclause 127.2.4.4 'Octets-to-Word' states that 'wd_rpd<7:0> is the earliest to arrive and wd_rpd<31:24> is the last.' A similar definition of the octet order is not provided in the definition of the WALIGN function in subclause 127.2.6.1.4. Since this is the function that defines the Octets-to-Word process suggest this definition of the octet order should be added. SuggestedRemedy Add the text 'wd_rpd<7:0> is the earliest to arrive and wd_rpd<31:24> is the latest.' be added as a new third sentence of the third paragraph. Response Response Status C Add text below as a new 3rd sentence of the first paragraph, before the words "The SINSERT(x)": The sentence of the first paragraph, before the words "The SINSERT(x)":	•				ACCEP	т.	·		
ACCEPT IN PRINCIPLE. Add text below as a new 3rd sentence of the first paragraph, before the words "The SINSERT(x)":	aw, David comment Type TR Subclause 127.2.4.4 'Octor wd_rpd<31:24> is the last definition of the WALIGN defines the Octets-to-Won added. uggestedRemedy Add the text 'wd_rpd<7:0>	Hewlett Packa <i>Comment Status</i> A ets-to-Word' states that 'w t.'. A similar definition of th function in subclause 127. rd process suggest this de > is the earliest to arrive ar	ard Enter d_rpd<7:0> is th e octet order is r .2.6.1.4. Since th finition of the oct nd wd_rpd<31:24	e earliest to arrive and not provided in the his is the function that tet order should be					
Add text below as a new 3rd sentence of the first paragraph, before the words "The SINSERT(x)":	esponse	Response Status C							
SINSERT(x)":	ACCEPT IN PRINCIPLE.								
wd_rpd<7:0> is the earliest to arrive and wd_rpd<31:24> is the latest.		3rd sentence of the first pa	aragraph, before	the words "The					
	wd_rpd<7:0> is the earlie	st to arrive and wd_rpd<31	1:24> is the lates	t.					

C/ 127	SC 127.2.4.5	P 70	L 53	# <u>i-</u> 122	C/ 127	SC 127.2.4	.5	P 71	L 6	# i <u>-</u> 123
Law, Davi	d	Hewlett Pack	ard Enter		Law, Davi	b		Hewlett Pac	kard Enter	
Comment	Туре Т	Comment Status A			Comment	Туре Т	Comment	Status A		
state Table under	of the wdecode_state 127-4 'Word Decode score between the S	d Decode' states that 'Th e and next_seq_s2_s3 va e mapping' however uses 2 and s3) and there is no	ariables as shown the next_seq_s	n in columns 5 and 6.'. 2s3 variable (no	seque Equat Data 2	nce ordered is i ion (127-2).'. W Հ, it also include	reconstructed /hile equation 1 es 'if (S0<7>, S	from Data S0, 27-2 includes 1<7>, S2<7>,	Data S1, Data S2 the equations for S3<7> = 0110) th	a Y, and Data Z from the 2, Data S3 according to Data X, Data Y and nen output XGMII =
next s	seg s2s3 variables in	n the draft.			Seque	ence, Data X, Da	ata Y, Data Z v	where' and 'els	e XGMII = Idle, Id	dle, Idle, Idle' defining

In the definition of the WDECODE(x, y, z) function it is stated that '... the variable z indicates whether the next four 2.5GPII variables are the final four 2.5GPII symbols of the |Q| or |Fsig| ordered-set.'. The NEXTSEQ function, that generates the variable z in the RX_XGMII state of Figure 127-9 'Octets-to-Word and Decode state diagram', however states that the function '... returns whether the next four 2.5GPII symbols presented to the Word Decode process is of the form: Sequence, Data, Sequence, Data.'.

While there doesn't appear to be any error the different descriptions in the different subclause makes it difficult to connect them as referencing the same thing.

SuggestedRemedy

Suggest that:

[1] In subclause 127.2.4.5 insert a new third sentence that reads 'The seg s2 s3 variable indicates whether the next four 2.5GPII symbols are of the form: Sequence, Data, Sequence, Data.'.

[2] In the Table 127-4 heading change ' next seg s2s3' to read ' next seg s2 s3'. [3] in the WDECODE(x, y, z) function change the text '... the variable z indicates whether the next four 2.5GPII variables are the final four 2.5GPII symbols of the |Q| or |Fsig| ordered-set.' to read '... the variable z indicates whether the next four 2.5GPII symbols are of the form: Sequence, Data, Sequence, Data.'.

Response

Response Status C

ACCEPT.

Sequence, Data X, Data Y, Data Z where' and 'else XGMII = Idle, Idle, Idle, Idle' defining the XGMII output. This seems to be duplicative of Table 127-4 'Word Decode mapping' below.

SuggestedRemedy

Suggest that equation 127-2 should simply read:

Data X<7:0> = S1<1:0>. S0<5:0> Data Y<7:0> = S2<3:0>, S1<5:2> Data Z<7:0> = S3<5:0>, S2<5:4>

Response Response Status C

ACCEPT.

C/ 127	SC 127.2.6.2.4	P 92	L 16	# i-124
Law, David		Hewlett Pack	ard Enter	

Comment Type **TR** Comment Status A

The condition on the transition from the state LP IDLE D to LPI K in Figure 127-8c 'PCS Receive state diagram, part c' reads:

signal detect=OK * !rx tg timer done (SUDI + SUDI([/K28.5/]))

There is no Boolean operator between rx_tq_timer_done and the parenthetical SDI related conditions, in addition (SUDI + SUDI([/K28.5/])) is equal to just SUDI so this appears to be a typo. Since the transition is to the state LPI K, it would appear the missing operator is a Boolean AND, and the SUDI + condition should be removed.

SuggestedRemedy

Suggest that the condition on the transition from the state LP IDLE D to LPI K in Figure 127-8c should be:

signal_detect = OK * !rx_tq_timer_done * SUDI([/K28.5/])

Response Response Status C

ACCEPT.

C/ 127A	SC 127A	P 165	L 45	#	i <u>-</u> 125
Law, David		Hewlett	Packard Enter		

Comment Type TR Comment Status A

As stated in annex 127A 'It is permissible for a compliant 1000BASE-X PCS transmit process to truncate the first byte of a preamble in order to align the start of packet on the EVEN boundary.'.

In the 2.5GBASE-X receive path the WALIGN function called by the RX_XGMII state of the Figure 127-9 'Octets-to-Word and Decode state diagram' performs alignment according to subclause 127.2.4.4. Based on the rules described in that subclause the first packet received will set the Deficit Idle Count to place the first Data symbol, in this case the SPD replaced by a preamble octet by the PCS, on wd_rpd<7:0> of the 2.5GPII. This in turn will be encoded as a XGMII 'start' (RXC = 1, RXD = 0xFB) on lane 0 as required by Clause 46.

As noted above the first octet of preamble may be discarded on transmit by a 1000BASE-X PCS. This results in the transmission of, and therefore reception of, a 7 octet preamble. With the first octet of this 7 octet preamble aligned by the WALIGN function on XGMII lane 0, the SFD will be received on Lane 2 of XGMII, not Lane 3 as illustrated in IEEE Std 802.3-2015 Figure 46-8 and 46-9.

IEEE Std 802.3-2015 subclause 46.3.3.3 'Response to received invalid frame sequences' states 'Error free 10 Gb/s operation will not change the SFD alignment in lane 3' and 'A 10 Gb/s MAC/RS implementation is not required to process a packet that has an SFD in a position other than lane 3 of the column following the column containing the Start control character.'.

There appears to be no changes to this text as a result of IEEE Std 802.3bz-2016 amending the XGMII specification to support operation at 2.5 Gb/s and 5 Gb/s as well as 10 Gb/s. As a result the above text only applies to XGMII 10 Gb/s operation and IEEE 802.3 is silent in this respect for 2.5 Gb/s and 5 Gb/s XGMII operation.

That being said, there may be an assumption made that a 10 Gb/s MAC/RS/XGMII implementation may also support 2.5 Gb/s operation through quarter rate clocking. This however is not the case if the implementation took the option of not processing packets that have an SFD in a position other than lane 3 as is permitted by IEEE Std 802.3-2015 subclause 46.3.3.3. If that option is implemented all packets received from a 2.5GBASE-X would not be processed as the SFD will always be received in lane 2.

SuggestedRemedy

While strictly speaking IEEE Std 802.3-2015 subclause 46.3.3.3 only applies to a 10 Gb/s MAC/RS/XGMMI, to avoid any incorrect assumptions, suggest that:

[1] The text '...to be able to accept a seven byte preamble on the XGMII.' in the penultimate paragraph of Annex 127A be changed to read '...to be able to accept a seven byte preamble on the XGMII with the SFD positioned on lane 2.'.

[2] A note that reads 'Note: To support 2.5GBASE-X compatibility with a 1000BASE-X PCS/PMA running 2.5 times faster, a 2.5Gb/s MAC/RS implementation has to support a

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

Start control character received on either lane 2 or lane 3.' Be added to the end of subclause 46.3.3.3.

Response Response Status C

ACCEPT.

C/ 130 SC 130.7.1.4		130.7.1.4	P146 L14		# i-126
RAN, ADEE			Intel Corporation	า	
Comment Type TR			Comment Status A		
Here t	there is	a normativ	e statement in an informative	note, with de	tailed specification that

SuggestedRemedy

Change FROM

"shall be between 0 V and 1.9 V with respect to signal ground as measured at Vcom in Figure 130-2" TO $\ensuremath{\mathsf{TO}}$

"is defined in Table 130-4".

does not appear elsewhere.

Add a table footnote in table 130-4 item "Common-mode voltage limits": "Defined with respect to signal ground as measured at Vcom in Figure 130-2".

Response Status U

ACCEPT.

Response

Comment ID i-126

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CI 130 SC 130.7.1.7 P 148 L 31 # i-127 RAN, ADEE Intel Corporation	C/ 130 SC 130.7.1.10 P 149 L 1 # i-128 RAN, ADEE Intel Corporation Intel Corporation<
Comment Type TR Comment Status A	Comment Type E Comment Status A
"with no equalization"	It seems that subclauses 130.7.1.10 and 130.7.1.11 discuss the same thing.
There is no variable that controls equalization in this PMD, so this can't be done in a standard way.	Unlike clauses which have configurable equalization and describe what is configured, in this clause c(0) and c(-1) are not configurable. Therefore 130.7.1.10 is only informative tex about how the requirements in 130.7.1.11 can be achieved.
Also applies to the requirement of 130.7.1.8, jitter measurement. In this case, equalization may be required based on where the measurement is performed.	These subclauses can be merged for better logical structure.
SuggestedRemedy	SuggestedRemedy
Add a control variable to disable equalization.	Consider merging these subclauses.
Alternatively, if equalization is fixed, remove the words "with no equalization" here and "Equalization shall be off during jitter testing" in 130.7.1.8, and change the required	Response Response Status C ACCEPT IN PRINCIPLE.
transition time and jitter to account for the equalization. Response Response Status U ACCEPT IN PRINCIPLE.	Delete subclause header: "130.7.1.11 Transmitter output waveform requirements" to merge the two sections of text.
Use Table 45-60 reserved bit for the equalizer enable control bit.	C/ 130 SC 130.7.1.11 P 149 L 23 # i-129 RAN, ADEE Intel Corporation Intel Corporation
Add a second paragraph that says: The BASE-R PMD control register is also used by 5GBASE-KR described in Clause 130 to disable the transmitter equalizer for test purposes. 5GBASE-KR does not use the start-up protocol.	Comment Type T Comment Status A "shall be measured" is inappropriate. Measurement is not mandatory. This language is usually not used in other clauses.
In the table 'Name' field use the following: transmitter equalizer disable	Also, the measurement setup (which may strongly affect the results) is not shown in figure 130-7.
In the table 'Description' field use the following: 1 = Disable the 5GBASE-KR transmitter equalizer 0 = normal operation	The required R_pre, on the other hand, is mandatory and this should be a normative statement.
	SuggestedRemedy
Add words in a new subclause 45.2.1.80.3 for the equalizer disable:	Change "which shall be measured as shown in Figure 130-7" to "which are illustrated in Figure 130-7".
When bit 1.150.2 is set to one, 5GBASE-KR transmitter equalization is disabled. The default value of bit 1.150.2 is zero.	Change "The R_pre requirements are shown in Table 130-4" to "These measurements are used to calculate R_pre, defined in Equation (130-7). R_pre shall be within the limits specified in Table 130-4."
	Response Response Status C
	ACCEPT.

C/ 130 SC 130.7.2.1 P 151	L 8	# i-130	C/ 130 SC	130.10.4.4	P 157	L 10	# <u>i-133</u>
RAN, ADEE Intel Corporation			RAN, ADEE		Intel Corporati	on	
Comment Type T Comment Status A			Comment Type	TR	Comment Status A		
The noise levels and jitter levels in this table exceed those KR). This is contrary to the fact that the bandwidth is low					s not alternating polarity.		
and jitter can be better controlled.					in the referenced subclause e, not in the PICS.	. If more detaile	d definition is require
The rationale for using this high noise level and jitter in ir unclear. Is there any reason to expect such high impairm			SuggestedRemedy				
			Delete this pa	ttern from	the PICS item.		
If this high noise level is untypical for real operation it min to increased jitter effect on CDRs that are optimized for r			Response		Response Status U		
Suggested Remedy		voio.	ACCEPT IN F	PRINCIPLE			
Change the noise and jitter levels to be the same as those	se in Table 72-1	0.			ment column of the TC20 ro	w to read:	
Response Response Status C			See pattern d	efinition in	130.7.1.8.		
ACCEPT.			[Editor's note	added afte	er comment resolution comp	leted.	
C/ 130 SC 130.10.4.4 P 156 RAN, ADEE Intel Corporation	L 21	# i-131	The comment is text is provi		was corrected from ACCEP response.]	T to ACCEPT I	N PRINCIPLE as the
Comment Type TR Comment Status A TC8 description includes "5 sec", it should be microseco	onds.		C/ 69A SC (RAN, ADEE	69A.2	P 161 Intel Corporati	L 23 on	# <u>i-134</u>
SuggestedRemedy Change "5 sec" to "5 /mu s" (Greek letter mu)			Comment Type Newly inserted	E d text in a	Comment Status A changed paragraph should b	be underlined.	
Response Response Status U ACCEPT.			Since this par use a "replace		effectively deleted and repla on instead.	ced by new text	, it may be simpler to
C/ 130 SC 130.10.4.4 P 156 RAN, ADEE Intel Corporation	L 40	# i-132	SuggestedRemed	-	nge", format the new text wit	h underline.	
Comment Type TR Comment Status A			Alternatively,	change the	e instruction to "replace" and	I delete the orig	inal text.
The test pattern in the reference subclause is the one sp latter is the alternating bits pattern for 8B/10B encoding).		.2, not 36A.1 (the	Response ACCEPT IN F	PRINCIPLE	Response Status C		
SuggestedRemedy			The instruction	n is a "cho	nge"		
	nd TC16.			nisa ulla	nge .		
Change the test pattern definition to 52.9.1.2 in TC15 an					t after the strikethrough sent		

7 128A SC 128A.1 P 167 L 34 # i-135	Cl 127 SC 127.2.6.2.2 P 86 L 30 # i-137		
AN, ADEE Intel Corporation	Law, David Hewlett Packard Enter		
omment Type T Comment Status A	Comment Type TR Comment Status A		
The two parts of figure 128A-1 are labeled "Test points along transmit path" and "Test points along receive path", although in both cases the path includes both a transmitter an a receiver.	*** Comment submitted with the file 93584600003-Figure_127_5_comment.pdf attached * There is a sequencing issue between Figure 127-5 'PCS transmit ordered set state diagram' and Figure 127-6 'PCS transmit code-group state diagram'. Figure 127-6 change		
More descriptive titles would be "Test points along Drive-to-Host path" and "Test points along Host-to-Drive path" respectively.	state based on cg_timer_done = TRUE, and this change of state generates TX_OSET.indicate. TX_OSET.indicate in turn causes Figure 127-5 to change state.		
Comment applies similarly for figure 130A-1.	An example is start of packet. Figure 127-6 changes state based on tp_en and tp_er as		
uggestedRemedy	sampled by TX_OSET.indicate. TX_OSET.indicate is generated by Figure 127-5 based on cg_timer_done = TRUE. As a result tx_o_set changes state from /l/ to /S/. On the next		
Consider changing the titles in both annexes as suggested.	cg_timer_done = TRUE Figure 127-6 will change state to SPECIAL_GO and tx_code-		
Pesponse Response Status C	group will be set to /K27.7/.		
ACCEPT.	It however has taken two cg_timer_done = TRUE cycles for the /K27.7/ character to be		
P 130A SC 130A.3.1 P 212 L 30 # i-136 AN, ADEE Intel Corporation	transmitted, one cg_timer_done = TRUE cycle for Figure 127-6 to change tx_o_set to then a second cg_timer_done = TRUE for Figure 127-5 to output /K27.7/. This means the first byte of preamble has been discarded, and the second byte is being substitute with /S/.		
comment Type TR Comment Status R			
Pre-cursor ratio range is unreasonably wide, allowing any ratio between 0 to 1.3. This practically means "anything goes".	See attached document <figure_127_5_comment.pdf> for more details.</figure_127_5_comment.pdf>		
	Suggested Remedy		
Compare to Table 130-4 where the nominal value at the PMD is 1.25 +/-0.05.	See attached document <figure_127_5_comment.pdf>.</figure_127_5_comment.pdf>		
The precursor ratio can degrade somewhat after passing through a channel, but can't change from larger than 1 to smaller than 1. From the 130.7.1.11 definition, a value of R_pre less than 1 requires the signal to be deliberately shaped to create a slow transition (positive value for c(-1) in figure 130-6).	Response Response Status C ACCEPT.		
Such shaping would be detrimental for receiver performance and should not be allowed. But with the current allowed range, drive receiver can't know what equalization to expect. It's like not specifying anything.			
uggestedRemedy			
Change the allowed range to 1.2 +/- 0.1, allowing some channel degradation compared to the PMD specification, but preventing no-equalization or low-pass equalization.			
lesponse Response Status U			
REJECT.			

No consensus within the comment resoluton Task Force to make a change.

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: Comment ID

C/ 130A SC 130A.3.3 P 214 L 30 # [i-138 RAN, ADEE Intel Corporation	When bit 1.150.2 is set to one, 5GBASE-KR transmitter equalization is disabled. The default value of bit 1.150.2 is zero.			
Comment Type TR Comment Status A "The state of the transmit equalizer and hence the transmitted output waveform may be manipulated via the management interface"	C/ 128SC 128P 0L 0# i-139Thompson, GeoffreyIndependent Consulta			
Unfortunately variables for equalization in the management interface are not defined in this draft. This sentence does not appear in the parallel subclause 130.7.1.10.	Comment Type GR Comment Status A I can not find any definition that places the MDI physically. Is it TP1/4 or is it a physical connector? (Same seems to apply to cl. 130)			
It would be good if such variables be added, but if they are not, this sentence is misleading the reader.	SuggestedRemedy Say that TP1/4 (or whatever is true) is the MDI for specification purposes for this clause.			
SuggestedRemedy	Response Response Status C			
Consider adding management variables in clause 130 for controlling the equalization coefficients in figure 130-6, and suitable MDIO register mapping in clause 45. This would	ACCEPT IN PRINCIPLE.			
also require a test method to verify implementations. I would recommend using the variables and measurement method specified in 83D.3.1 (which relies on linear fitted pulse measurement, also used in the current project), and	Add to overview in 128.1 (page 103, line 9) and 130.1 (page 137, line 9), at the end of the first paragraph, an additional sentence that says:			
changing the definition to use only the precursor and main taps, with the same choice of coefficient values for c(-1).	References to the MDI (Media Dependent Interface) should be considered to be TP1 for the transmitter and TP4 for the receiver, as measurement points.			
I realize that this would be a deviation from this project's current method (130.7.1.11), but it is now an established solution in several PMDs and electrical interfaces.	C/ 45 SC 45.2.1.1.5 P 33 L 32 # [i-140 Mcclellan, Brett			
Alternatively, if this solution is not accepted, delete the quoted sentence.	Comment Type E Comment Status A			
Response Response Status U	Late Comment:			
ACCEPT IN PRINCIPLE.	PMA loopback is required by Clause 127 (2.5GBASE-X)			
Same response as comment number i-127 which is:	SuggestedRemedy change "2.5GBASE-KX" to "2.5GBASE-X"			
Use Table 45-60 reserved bit for the equalizer enable control bit.	Response Response Status C ACCEPT.			
Add a second paragraph that says: The BASE-R PMD control register is also used by 5GBASE-KR described in Clause 130 to disable the transmitter equalizer for test purposes. 5GBASE-KR does not use the start-up protocol.	ACCEFT.			
In the table 'Name' field use the following: transmitter equalizer disable				
In the table 'Description' field use the following: 1 = Disable the 5GBASE-KR transmitter equalizer 0 = normal operation				
Add words in a new subclause 45.2.1.80.3 for the equalizer disable:				

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: Comment ID

Cl 45 SC 45.2.1.89.6 P 36 L 15 # i-141 Mcclellan, Brett Cl 127 SC 127.2.4.2 P 69 L 34 Comment Type T Comment Status A Late Comment Type E Comment Status A Late Comment: signal detect is a PMD function, not PCS. Also need to add 2.5GBASE-X PCS to second sentence. Cl 127 SC 127.2.4.2 P 69 L 34 SuggestedRemedy Change "1000BASE-X PCS" to "1000BASE-X PCS" to "1000BASE-X PCS" to "1000BASE-X PCS" rote to also change second sentence to "The 1000BASE-X PCS and 2.5GBASE-X PCS require signal detect to be one before synchronization can occur." SuggestedRemedy Change "other" to "alternating" Response Response Status C Cl 45 SC 45.5.3.6 P 43 L 41 # i-142 Comment Type E Comment Status A Mcclellan, Brett Comment Type E Comment Status A L 47	# i-144
Late Comment: signal detect is a PMD function, not PCS. Also need to add 2.5GBASE-X PCS to second sentence. SuggestedRemedy change "1000BASE-X PCS" to "1000BASE-KX PMD" and "2.5GBASE-X PCS" to "2.5GBASE-X PCS" to "1000BASE-X PCS and 2.5GBASE-X PCS require signal detect to be one before synchronization can occur." SuggestedRemedy change "other" to "alternating" Response Response Status C C ACCEPT. C/ 45 SC 45.5.3.6 P 43 L 41 # i-142	# <u>1-144</u>
change "1000BASE-X PCS" to "1000BASE-KX PMD" and "2.5GBASE-X PCS" to "2.5GBASE-KX PMD". Add editor's note to also change second sentence to "The 1000BASE-X PCS and 2.5GBASE-X PCS require signal detect to be one before synchronization can occur." change "other" to "alternating" Response Response Status C ACCEPT. C/ 127 SC 127.2.5.10 P74 L 47 C/ 45 SC 45.5.3.6 P 43 L 41 i-142 Comment Type E Comment Status A	nce ordered sets c
"2.5GBASE-KX PMD". Add editor's note to also change second sentence to "The 1000BASE-X PCS and 2.5GBASE-X PCS require signal detect to be one before synchronization can occur." Response Response Status C Response Status C ACCEPT. Response Response Status C C/ 127 SC 127.2.5.10 P74 L 47 C/ 45 SC 45.5.3.6 P 43 L 41 i-142 Comment Type E Comment Status A	
1000BASE-X PCS and 2.5GBASE-X PCS require signal detect to be one before synchronization can occur." Response Response Status C ACCEPT. C/ 127 SC 127.2.5.10 P 74 L 47 C/ 45 SC 45.5.3.6 P 43 L 41 # [i-142 Comment Type E Comment Status A	
ACCEPT. C/ 127 SC 127.2.5.10 P74 L 47 C/ 45 SC 45.5.3.6 P43 L 41 # [i-142 Mcclellan, Brett C/ 45 SC 45.5.3.6 C/ 127 SC 127.2.5.10 P74 L 47	
	# <u>i-</u> 145
(SPD) should appear at the end of the line	
Comment Type E Comment Status A (SPD) should appear at the end of the infe Late Comment: SuggestedRemedy should be "PCS:O" instead of "AN:M" move "(SPD)" to after "delimiter"	
SuggestedRemedy Response Response Status C on lines 41 and 44 change "AN:M" to "PCS:O" ACCEPT. C	
Response Response Status C ACCEPT. C/ 127 SC 127.2.4.5 P 71 L 45 Mcclellan, Brett Mcclellan, Brett	# i-146
C/ 45 SC 45.5.3 P 43 L 50 # i-143 Comment Type G Comment Status A Acclellan, Brett Late Comment: Late Comment: Is 'X' intended to mean 'Don't Care'? Is 'X' intended to mean 'Don't Care'?	
Comment Type T Comment Status A Late Comment: SuggestedRemedy Missing PICS for autonegotiation registers change "X" to "Don't care"	
SuggestedRemedy Response Response Status C Add editors note and table indicating PICS for normative items in 45.2.7 ACCEPT. C	
Response Response Status C ACCEPT.	

C/ 127		5 P 71	1 L 19	# <u>i-</u> 147
Mcclellan,	Brett			
	Comment:	Comment Status esented without definit		
Suggested	Remedy			
		able: "next_seq_s2s3 S3 sequence ordered		
Response		Response Status	С	

ACCEPT.