	P 13	L <b>49</b>	# 17	C/ 45 SC 45.2.3.14.3 P40 L6 # 19
Anslow, Pete	Ciena			Anslow, Pete Ciena
Annex 128C, and Annex The first "Clause" should	Comment Status D Clause 130, Annex 127A, 7 130A." be "Clause 127" and "Ann			Comment Type E Comment Status D The editing instruction refers to only the first sentence of 45.2.3.14.3, but the complete te is shown. The first sentence of 45.2.3.14.3 has been modified by IEEE Std 802.3bz-2016 "113.3.6.2.2" should be in Forest green
SuggestedRemedy				SuggestedRemedy
6	" to "Clause 127" and delet	e "Annex 127B, "		Remove the text after the first sentence.
Proposed Response PROPOSED ACCEPT.	Response Status W			Change the editing instruction to include IEEE Std 802.3bz-2016 Change:
[Editor note: same as co	mment #4]			" and defined by the counter lfer_count in 55.3.6.2 for 10GBASE-T and in 113.3.6.2.2 for 25GBASE-T and 40GBASE-T." to: " and defined by counter lfer_count in 126.3.6.2 in 2.5GBASE-T and 5GBASE-T, 55.3.6
C/ <b>31B</b> SC <b>31B.4.6</b> Anslow, Pete	<i>P</i> <b>160</b> Ciena	L <b>21</b>	# 8	for 10GBASE-T, and in 113.3.6.2.2 for 25GBASE-T and 40GBASE-T." Note, the base text shown in the published version of IEEE Std 802.3bz-2016 does not
	Comment Status <b>D</b> TIM4aa before the row for	*TIM4a" there	should not be a "*"	correctly reflect the standard as modified by IEEE Std 802.3bq-2016. The text above is t correct version. Apply character tag External to "113.3.6.2.2"
before TIM4aa or TIM4a				Proposed Response Response Status W
SuggestedRemedy Change "for *TIM4aa bef	fore the row for *TIM4a" to	"for TIM4aa befor	e the row for TIM4a"	PROPOSED ACCEPT. Remove the text after the first sentence.
				Change the editing instruction to include IEEE Std 802.3bz-2016
Proposed Response PROPOSED ACCEPT.	Response Status W			Change the editing instruction to include IEEE Std 602.302-2016
PROPOSED ACCEPT.           Cl 45         SC 45.2.1.89.6	6 P 36	L 15	# [18	Change: " and defined by the counter lfer_count in 55.3.6.2 for 10GBASE-T and in 113.3.6.2.2 for 25GBASE-T and 40GBASE-T." to:
PROPOSED ACCEPT. Cl 45 SC 45.2.1.89.6 Anslow, Pete Comment Type E	5 P 36 Ciena Comment Status D			Change: " and defined by the counter lfer_count in 55.3.6.2 for 10GBASE-T and in 113.3.6.2.2 f
PROPOSED ACCEPT. Cl 45 SC 45.2.1.89.6 Anslow, Pete Comment Type E	6 P <b>36</b> Ciena			Change: " and defined by the counter lfer_count in 55.3.6.2 for 10GBASE-T and in 113.3.6.2.2 for 25GBASE-T and 40GBASE-T." to: " and defined by counter lfer_count in 126.3.6.2 in 2.5GBASE-T and 5GBASE-T, 55.3.6 for 10GBASE-T, and in 113.3.6.2.2 for 25GBASE-T and 40GBASE-T." Note, the base text shown in the published version of IEEE Std 802.3bz-2016 does not
Cl 45 SC 45.2.1.89.6 Anslow, Pete Comment Type E The text changes in 45.2	5 P 36 Ciena Comment Status D			Change: " and defined by the counter lfer_count in 55.3.6.2 for 10GBASE-T and in 113.3.6.2.2 for 25GBASE-T and 40GBASE-T." to: " and defined by counter lfer_count in 126.3.6.2 in 2.5GBASE-T and 5GBASE-T, 55.3.6 for 10GBASE-T, and in 113.3.6.2.2 for 25GBASE-T and 40GBASE-T."
PROPOSED ACCEPT.         Cl 45       SC 45.2.1.89.6         Anslow, Pete         Comment Type       E         The text changes in 45.2         standard.         SuggestedRemedy         Change the editing instru-         Change the text to show         "The PMD signal detect to	Ciena Comment Status D 2.1.89.6 are not shown as c uction to: "Change the title a changes with respect to th function is optional see 70.0 before synchronization can be	hanges with resp and text of 45.2.1 e text of the base 6.4. The 1000BA	ect to the base 89.6 as follows:" standard which is: SE-X PCS requires	Change: " and defined by the counter lfer_count in 55.3.6.2 for 10GBASE-T and in 113.3.6.2.2 for 25GBASE-T and 40GBASE-T." to: " and defined by counter lfer_count in 126.3.6.2 in 2.5GBASE-T and 5GBASE-T, 55.3.6 for 10GBASE-T, and in 113.3.6.2.2 for 25GBASE-T and 40GBASE-T." Note, the base text shown in the published version of IEEE Std 802.3bz-2016 does not correctly reflect the standard as modified by IEEE Std 802.3bq-2016. The text above is t

Cl **45** SC **45.2.3.14.3** 

	2.3.14.4	P <b>40</b>	L <b>22</b>	# 20	CI 69A SC 69A.2.1	P 162	<i>L</i> 1	# 11
Anslow, Pete		Ciena			Anslow, Pete	Ciena		
Comment Type E	Comme	ent Status D			Comment Type E	Comment Status D		
		has been modified	d by IEEE Std 802	2.3bz-2016	In the editing instruct	ion, change "the 69A.2.1" to "6	9A.2.1"	
	d be in Forest gr	een			SuggestedRemedy			
SuggestedRemedy			000 01 - 0040		In the editing instruct	ion, change "the 69A.2.1" to "6	9A.2.1"	
Change the edit	ig instruction to i	nclude IEEE Std	802.302-2016		Proposed Response	Response Status W		
			t in 55.3.6.2 for 1	0GBASE-T and in	PROPOSED ACCEF	T.		
113.3.6.2 for 25 " and defined I			126.3.6.2 in 2.5G	BASE-T and 5GBASE-	[Editor note: remove	the word "the" ahead of "69A.2	2.1" Danl	
T, 55.3.6.2 for 1	GBASE-T and in	113.3.6.2 for 25			-		-	" 10
Apply character	-				C/ 69A SC 69A.2.1 Anslow, Pete	P <b>162</b> Ciena	L <b>36</b>	# 12
Proposed Response	,	se Status W						
PROPOSED AC	CEPT.				Comment Type E	Comment Status D		
[Editor note: this	comment has no	t been done yet.	- Dan]		Space missing in edi	ling instruction		
C/69A SC 69	.2	P 161	L 30	# 9	SuggestedRemedy			
Anslow, Pete		Ciena			Change "69A.2.1as"			
Comment Type	Comme	ent Status D			Proposed Response	Response Status W		
		rnal reference as	green in an editin	g instruction.	PROPOSED ACCEF	1.		
SuggestedRemedy			-	-	CI 69A SC 69A.2.1	P 162	L <b>40</b>	# 13
Change "Figure	69A-1." to black				Anslow, Pete	Ciena		
Proposed Response	Respons	se Status W			Comment Type E	Comment Status D		
PROPOSED AC	,				"requirements or 130 be a cross-reference	.7.1.1" should be "requirement	s of 130.7.1.1" a	and "130.7.1.1" should
CI 69A SC 69	.2	P 161	L <b>30</b>	# 10	SuggestedRemedy			
Anslow, Pete		Ciena				ts or 130.7.1.1" to "requiremen	ts of 130.7.1.1"	and make "130.7.1.1" a
Comment Type E	Comme	ent Status D			cross-reference			
As Figure 69A-1 69A-2	is the last figure	in Annex 69A, a f	igure inserted afte	er it should be Figure	Proposed Response PROPOSED ACCEF	Response Status W		
SuggestedRemedy								
Change "Figure	59A-1a" to "Figur	e 69A-2" in the ed	diting instruction a	and the figure number.				
Proposed Response	Respons	se Status W						

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

C/ 69A SC 69A.2.1 Page 2 of 6 2/23/2017 5:54:06 PM

C/         69A         SC         69A.3         P 163         L 18         # 14           Anslow, Pete         Ciena         Ciena<	C/         125         SC         125.2.2         P 61         L 53         # 4           Dudek, Mike         Cavium				
Comment Type E Comment Status D "130.6.2" should be a cross-reference	Comment Type E Comment Status D Missing Clause #				
SuggestedRemedy make "130.6.2" a cross-reference	SuggestedRemedy Add "127" as the missing clause # Also on page 62 line 5				
Proposed Response Response Status W PROPOSED ACCEPT.	Proposed Response Response Status W PROPOSED ACCEPT.				
C/ 73 SC 73.1 P 51 L 27 # 21 Anslow, Pete Ciena	[Editor note: Jim, make this change. I checked it against D2.1, it is not missing there Dan Update: need change notation?]				
Comment Type E Comment Status D In the added text in Figure 73-1, "2.5 G/b" should be "2.5 Gb/s"	C/         125         SC         125.2.3         P 62         L 5         # 23           Anslow, Pete         Ciena				
SuggestedRemedy Change "2.5 G/b" to "2.5 Gb/s"	Comment Type E Comment Status D				
Proposed Response Response Status W	"in Clause and" should be "in Clause 127 and"				
PROPOSED ACCEPT.	SuggestedRemedy Change "in Clause and" to "in Clause 127 and"				
C/ 73         SC 73.2         P 51         L 39         # 22           Anslow, Pete         Ciena	Proposed Response Response Status W PROPOSED ACCEPT.				
Comment Type E Comment Status D The heading shown as "73.2" should be "73.3"	[Editor note: same as comment #4. Shouldn't the change show as forest green? - Dan]				
SuggestedRemedy Change the heading number to 73.3	C/         125         SC         125.3         P 62         L 26         # 24           Anslow, Pete         Ciena				
Proposed Response Response Status W	Comment Type E Comment Status D				
PROPOSED ACCEPT IN PRINCIPLE.	Spurious "/" at the end of the editing instruction. The inserted rows in Table 125-3 should be shown in underline font.				
Editor note: Is the editing instruction in the right place if the subheader is changed to 73.3? Should the editing instruction be placed above the "73.2 Functional specifications"	As there are numbers above 10 000 in the Maximum (bit time) column, 1024 and 3540 should have a space as a thousands separator as per the style manual.				
header? - Dan]	SuggestedRemedy				
	Delete the "/" at the end of the editing instruction. Show the inserted rows in Table 125-3 in underline font. Change "1024" to 1 024" and change "3540" to "3 540"				
	Proposed Response Response Status W				
	PROPOSED ACCEPT. [editors note: which lines are inserted?]				

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<i>Cl</i> <b>127</b> SC <b>127.2.6</b> Maguire, Valerie	5.1.4	P <b>81</b> Siemon	L 19	# [1	C/ <b>127</b> Law, David	SC	127.2.6.2.1	<i>Р</i> <b>85</b> НРЕ	L 19	# 27	
Comment Type E	Comment	Status D			Comment T	ype	T Co	omment Status	)		
It appears that the lin broken. (My apologie resubmit against the SuggestedRemedy Verify that the link to Proposed Response PROPOSED ACCEF	es if this comme Sponsor ballot 36.2.4.4 at the <i>Response</i>	nt is out of scop if the link is indo end of line 19 is	be. If so, kindly ad eed a problem.)		along w in the T 'xgmii_t xgmii_t the risir xgmii_t	vith sta X_XG xc<3:0 ng or fa xd_lo v	tes TX_2.5GPI MII state the as 0> <= xgmii_txc > and xgmii_tx alling edge of T variables.	IL_4 through TX_2 ssignments 'xgmi d_lo<3:0>' have b d<31:0> variable 'X_CLK and there	2.5GPII_7 have been a i_txc<3:0> <= xgmii_to een added. The defin s however still state th e is no definition of the	ition of the hat they are latched on xgmii_txc_lo and	
Cl 127 SC 127.2.2 Dudek, Mike Comment Type T I don't see a scramb encoding has in othe problems.	Comment ler in the PCS tr				Assuming that xgmii_txc_lo and xgmii_txd_lo are TXC and TXC latched on the falling of TX_CLK, that xgmii_txc and xgmii_txd are TXC and TXC latched on the rising edge TX_CLK, and that the TX_XGMII state is entered on the rising edge of TX_CLK, the assignments 'xgmii_txc<3:0> <= xgmii_txc_lo<3:0>' and 'xgmii_txd<3:0> <= xgmii_txd_lo<3:0>' would appear to overwrite the TXC and TXC values just latched or rising edge. As an aside I would note that the XGMII data bus is 32 bits hence I think assignment 'xgmii_txd<3:0> <= xgmii_txd_lo<3:0>' should read 'xgmii_txd<31:0> <= xgmii_txd_lo<31:0>'.						
SuggestedRemedy										C and TXC latched on XC and TXC latched on	
If a scrambler isn't in	cluded conside	r adding one.			the risir	ng edg	e of TX_CLK, r	emove the use of	f xgmii_txc and xgmii_	txd, and process	
Proposed Response	Response	Status <b>W</b>			xgmii_t: WENC	xc_lo a ODE fi	and xgmii_txd_l	lo as well as xgm Igest that the stat	ii_txc_hi and xgmii_txo e TX_XGMII be renan	d_hi directly in the	
[Editor: this will requi this late in the cycle. - Dan]		search by the p	rotocol contributo	rs. A major comment	Suggested Sugges		ly				
Daij				<ul> <li>[1] The definition for xgmii_txc&lt;3:0&gt; and xgmii_txd&lt;31:0&gt; be deleted.</li> <li>[2] A new definition for xgmii_txc_lo&lt;3:0&gt; be added that reads 'The value of TXC&lt;3:0&gt; latched by the falling edge of TX_CLK.'</li> <li>[3] A new definition for xgmii_txc_hi&lt;3:0&gt; be added that reads 'The value of TXC&lt;3:0&gt; latched by the rising edge of TX_CLK.'</li> <li>[4] A new definition for xgmii_txd_lo&lt;31:0&gt; be added that reads 'The value of TXD&lt;31:0&gt; latched by the falling edge of TX_CLK.'</li> <li>[5] A new definition for xgmii_txd_hi&lt;31:0&gt; be added that reads 'The value of TXD&lt;31:0&gt; latched by the rising edge of TX_CLK.</li> </ul>					value of TXC<3:0> value of TXC<3:0> e value of TXD<31:0>		
								txc<3:0> <= xgmi _XGMII state be	i_txc_lo<3:0>' and 'xg deleted.	mii_txd<3:0> <=	
					to WEN [8] The	ICODE variab	E(xgmii_txc_lo<	3:0>,xgmii_txd_l to the WENCOD	E function in the TX_X o<31:0>,wencode_sta E function in the TX_X nii_txd_hi<31:0>,wenc	GMII_HI state be	
•	dispatched A/a	ccepted R/reje		T/technical E/editorial G SE STATUS: O/open W/v	0	U/uns	atisfied Z/with		C/ 127 SC 127.2.6.2.1	Page 4 of 6 2/23/2017 5:54:06	

[9] In the WENCODE function definition the text ' is the xgmii_txc<3:0>, xgmii_txd<31:0>, and' be changed to read ' is xgmii_txc_lo<3:0> or xgmii_txc_lo<3:0>, xgmii_txd_lo<31:0> or xgmii_txd_hi<31:0>, and'.	C/         128A         SC         128A.1         P 167         L 14         # 15           Anslow, Pete         Ciena         Cien					
<ul> <li>[10] Rename the state TX_XGMII to be TX_XGMII_HI</li> <li>Proposed Response Response Status W</li> <li>PROPOSED ACCEPT.</li> <li>Prior comment that was "accepted in principal" that did NOT get completely implemented.</li> <li>[Editor note: this came in late Jim, please implement Dan]</li> </ul>	Comment Type       E       Comment Status       D         "Annex 128C" should be a cross-reference (3 instances)         SuggestedRemedy         Make "Annex 128C" a cross-reference (3 instances)         Proposed Response       Response Status       W         PROPOSED ACCEPT.					
Cl         128         SC         128.7.1         P 110         L 26         # 25           Anslow, Pete         Ciena	C/         128A         SC         128A.3.1.7         P 172         L 33         # 7           Dudek, Mike         Cavium					
Comment Type       E       Comment Status       D         1.2.6 in the base standard says that "trailing zeros having no significance"         SuggestedRemedy         Remove any trailing zeros from the draft.         In Table 128-4 change "0.20" to "0.2"         In Table 130-6 change "1.0" to "1"         In Table 128A-1 change "0.20" to "0.2"         Proposed Response       Response Status         W         PROPOSED ACCEPT.         [Editor note: scan entire draft for other instances Dan]	Comment Type       TR       Comment Status       D         It seems unlikely that an SNDR value of only 5.6dB will provide a 1e-12 error rate. (SNDR is expected to be be un-equalizable noise and a 5.6dB SNR will not provide 1e-12 error rate). The effect of jitter and reflections from a worst case Rx (versus the good test load) will futher degrade the signal beyond this value.         SuggestedRemedy       Determine a reasonable value. Clause 92 uses 26dB which may be higher than necessary.         Make the change on page 175 line 8 as well, and change the SDNR for the drive interference in table 128A-8.					
C/         128         SC         128.7.1.5         P 112         L 44         # 6           Dudek, Mike         Cavium	Proposed Response Response Status W					
Comment Type       T       Comment Status       D         Figure 128-4 does not match the specications in equations 128-3 and 128-4. (The figure is the same as Figure 128-5)         SuggestedRemedy         Correct the figure.         Proposed Response       Response Status       W         PROPOSED ACCEPT.	[Editor: this will require extensive research by Anthony & Rich Mellitz. A real show stopper Dan]					

C/ 128A SC 128A.3.1.7

C/ 128A SC 128A.3.2.	2 P 176	L 15	# 3	C/ 130A SC 130A.3.	-	L 33	# 2
oudek, Mike	Cavium			Dudek, Mike	Cavium		
Comment Type E	Comment Status D			Comment Type T	Comment Status D		
Tables 128A-3, 128A-8 defined. From context	, 130A-3 and 130A-8 contain	a parameter SE	ONR that is not		B appears marginal to provide		
SuggestedRemedy				the receiver are consi	by jitter, receiver non ideality idered.		etween the nost and
Change to SNDR in 4 p	laces			SuggestedRemedy			
Proposed Response	Response Status W			Consider whether a h	igher value should be used.		
PROPOSED ACCEPT.	'			Proposed Response	Response Status W		
[Editor note: fix the type	o: "SDNR" s/b "SNDR"; checł	all instances	Dan.	[Editor: this will requir	e extensive research by Anthe	ony & Rich Mellit	z - Danl
Update: still need to fix					e extensive research by Anth		z Danj
Table 130A-3 Table 130A-8							
]							
C/ 128C SC 128C.3	P 202	L <b>2</b>	# 16				
Anslow, Pete	Ciena						
Comment Type E	Comment Status D						
The PICS should reflect	t the exact title of the Annex.						
SuggestedRemedy							
On line 2, line 37, line 3 Change "Annex 128C, Storage Enclosure Inte	Test fixtures" to "Annex 128C	, Test Fixtures f	or 2.5 Gb/s and 5 Gb/s				
Proposed Response	Response Status W						
PROPOSED ACCEPT.							
C/ 130 SC 130.7.2.1	P 151	L 14	# 26				
Anslow, Pete	Ciena						
Comment Type E	Comment Status D						
	e a, "Equation 69A-5" should	be Forest green	1				
SuggestedRemedy Apply character tag Ext	ernal to "Equation 69A-5"						
Proposed Response	Response Status W						

C/ 130A SC 130A.3.1