C/ 1 SC 1.4 P 23 L 43 # 14 C/ 30 SC 30.5.1.1.2 P 26 L 8 # 30 Lo. William Marvell Semiconducto Lo. William Marvell Semiconducto Comment Type Comment Status X TR Comment Type TR Comment Status X Annex 128A describes the 2.5GSEI and not just Clause 128A.2 Multiple issues with 30.5.1.1.2 SuggestedRemedy 1) Need to add 2.5GBASE-X and 5GBASE-R since they are enumerated in lines 23 and Change Clause 128A.2 to Annex 128A 2) Current definitions on 2.5GBASE-KX and 5GBASE-KR should be PMD not PCS/PMA Proposed Response Response Status O SuggestedRemedy Add 2.5GBASE-X X PCS/PMA as specified in Clause 127 over undefined PMD C/ 1 SC 1.4 P 23 L 52 # 15 5GBASE-R R PCS/PMA as specified in Clause 129 over undefined PMD Lo. William Marvell Semiconducto Change current definitions to Comment Type TR Comment Status X 2.5GBASE-KX X PCS/PMA over an electrical backplane PMD as specified in Clause 128 Annex 130A describes the 5GSEI and not just Clause 130A.2 5GBASE-KX R PCS/PMA over an electrical backplane PMD as specified in Clause 130 SuggestedRemedy Proposed Response Response Status O Change Clause 130A.2 to Annex 130A Proposed Response Response Status O C/ 45 SC 45.2.1.7.1 P 27 / 45 # 31 Lo. William Marvell Semiconducto Comment Type Comment Status X ER C/ 1 SC 1.4 P 24 L 11 # 16 Heading 45.2.1.7.1 is incorrect Lo, William Marvell Semiconducto SuggestedRemedy Comment Type TR Comment Status X Change to 45.2.1.7.4 Need to add 2.5GSEI and 5GSEI Proposed Response Response Status O SuggestedRemedy 2.5GSEI 2.5Gb/s Storage Enclosure Interface SC 45.2.1.8 C/ 45 P 28 L 21 # 32 5GSEI 5Gb/s Storage Enclosure Interface Lo. William Marvell Semiconducto Proposed Response Response Status O Comment Type ER Comment Status X Table 45-11 should be 45-12 SuggestedRemedy Table 45-11 should be 45-12 Proposed Response Response Status O

Cl 45 SC 45.2.1.14c P 28 L 40 # 33 Cl 45 SC 45.2.3 P 30 L 22 # 36 Lo. William Marvell Semiconducto Lo. William Marvell Semiconducto Comment Status X Comment Status X Comment Type ER Comment Type TR Delete PA comment - but need to accept the comment. Table 45-17g by inserting a row for the bit 1.21.3 should be See below for remedy. Table 45-17c by inserting a row for the bit 1.21.2 SuggestedRemedy SuggestedRemedy Delete PA comment. Fix per comment In table 45-119 from 802.3by change to Proposed Response Response Status O (i.e. add the 5G speed) 3.34 through 3.37 SC 45.2.1.88 # 34 C/ 45 P 29 / 40 5/10/25GBASE-R PCS test pattern seed A 45.2.3.15 Lo, William Marvell Semiconducto Comment Type T Comment Status X 3.38 through 3.41 5/10/25GBASE-R PCS test pattern seed B Delete PA comment. 45.2.3.16 Same registers controls both 1000BASE-KX and 2.5GBASE-KX Proposed Response Response Status O SuggestedRemedy Delete PA comment. Proposed Response Response Status O C/ 45 SC 45.2.3 P 30 L 24 # 37 Lo. William Marvell Semiconducto Comment Type TR Comment Status X Cl 45 SC 45.2.1.88 P 30 L 7 # 35 Missed a register change needed for loopback. Lo, William Marvell Semiconducto Comment Type T Comment Status X SuggestedRemedy Delete PA comment - but need to accept the comment. Add the following: See below for remedy. SuggestedRemedy 45.2.3.1 PCS control 1 register (Register 3.0) 45.2.3.1.2 Loopback (3.0.14) Delete PA comment. Copy the text from 802.3bz and make the following change: Change all instances of 10GBASE-R to 5/10GBASE-R "The assignment of bits in the 1000BASE-KX/2.5GBASE-KX control register shown in Table 45-69" Proposed Response Response Status O

(i.e. add the /2.5GBASE-KX to the sentence

Response Status 0

Proposed Response

IEEE 802.3cb D1.0 TF Re IEEE 802.3cb D1.0 TF Review 2.5 Gb/s and 5 Gb/s Backplane Ethernet 1st Task Force review comments Review - D1.0 Comments

Cl 45 SC 45.2.3.13	P 32 Marvell Semico	L 34 Inducto	# [38	Cl 45 SC 45.2.7.14ab Lo, William	<i>P</i> 35 Marvell Semic	L 30 conducto	# 41	
Comment Type E Missing space	Comment Status X			Comment Type E 5GBASE-R should be 5GB	Comment Status X BASE-KR			
SuggestedRemedy Add space to the follow	ving:			SuggestedRemedy See comment				
in 126.3.7.1				Proposed Response R	Response Status O			
Proposed Response	Response Status O							
Cl 45 SC 45.2.3.1 3	3.5 P 32	L 50	# [39	Cl 73 SC 73.7.4.1 Lo, William	P 49 Marvell Semic	L 3 conducto	# 42	
Lo, William	Marvell Semico		# [39	Comment Type E	Comment Status X			
Comment Type E Missing underline	Comment Status X			Missing space				
SuggestedRemedy				SuggestedRemedy Add space between in 73.7.4.1				
Underline 5/ in 5/10/25	GBASE-R			Proposed Response R	Response Status O			
Proposed Response	Response Status O							
C/ 45 SC 45.2.3.16		L 9	# 40	C/ 78 SC 78.1.1 Lo, William	P 53 Marvell Semic	L 18 conducto	# 43	
Lo, William Marvell Semiconducto Comment Type TR Comment Status X Wrong seed			Comment Type TR Not all PCS types support Clause 129 PCS does not	Comment Status X FEC. support BASE-R FEC.				
SuggestedRemedy Change seed A to seed B				SuggestedRemedy Change these PCS types to the Clause 49 PCS and Cl				
Proposed Response	Response Status O			Proposed Response R	Response Status O			

44 Cl 78 SC 78.1.3.3 P 53 L 25 C/ 125 SC 125.1.2 P 55 L 40 # 18 Lo. William Marvell Semiconducto Lo. William Marvell Semiconducto Comment Type TR Comment Status X Comment Type ER Comment Status X Clause 78.1.3.3.1 got dropped. Item d is new - need to underline it. Put back SuggestedRemedy SuggestedRemedy See comment. 78.1.3.3.1 PHY LPI transmit operation Proposed Response Response Status O Change the fourth paragraph of 78.1.3.3.1 as shown. The EEE capability in most PHYs (for example, 100BASE-TX, 10GBASE-T, 1000BASE-C/ 125 SC 125.1.4 P 58 L 13 KX. 2.5GBASEKX. 5GBASE-KR. 10GBASE-KR. and 10GBASE-KX4) requires the local Lo. William Marvell Semiconducto PHY transmitter to go quiet after sleep is signalled. Comment Type ER Comment Status D 2.5GBASE-KX and 5GBASE-KR are new - need to underline it. Proposed Response Response Status O SuggestedRemedy See comment. Proposed Response CI 78 SC 78.1.4 P 53 L 30 # 45 Response Status W Lo. William Marvell Semiconducto PROPOSED ACCEPT. Comment Type Ε Comment Status X C/ 125 SC 125.1.4 P 58 L 19 Delete extra colon at end of sentence Lo. William Marvell Semiconducto SuggestedRemedy Comment Type Comment Status X See comment missing space SuggestedRemedy Proposed Response Response Status O Add space between reference columns C/ 125 SC 125 P 55 L 1 # 17 Proposed Response Response Status O Lo, William Marvell Semiconducto Comment Status X Comment Type TR Strip down Clause 125 to bare minimum highlighting the differences only. SuggestedRemedy

See comment. Editor has discretion.

Response Status O

Proposed Response

Cl 125 SC 125.2.2 P 59 L 52 # 3 Lo, William Marvell Semiconducto	C/ 127 SC 127.2.4.5 P70 L 54 # 6 Lo, William Marvell Semiconducto
Comment Type ER Comment Status X Sentence is new - need to underline it.	Comment Type E Comment Status X Delete (())
SuggestedRemedy See comment.	SuggestedRemedy Delete the parenthesis
Proposed Response Response Status O	Proposed Response Response Status O
Cl 125 SC 125.2.4.2 P 60 L 32 # [4	C/ 127 SC 127.2.5 P71 L 49 # [7
Comment Type ER Comment Status X Clause 125.2.4.2 is new - need to underline entire clause.	Comment Type E Comment Status X Delete extra period at end of paragraph
SuggestedRemedy See comment.	SuggestedRemedy See comment
Proposed Response Status O	Proposed Response Response Status O
CI 125 SC 125.3 P 61 L 22 # 5 Lo, William Marvell Semiconducto	C/ 127 SC 127.2.6.1.3 P77 L 26 # 8 Lo, William Marvell Semiconducto
Comment Type TR Comment Status X Delete PA comment in both cells	Comment Type E Comment Status X Delete extra period at end of paragraph
Clause 70.4 1000BASE-KX PCS+PMA+PMD delay is 328 bits This is not an integer pause_quanta. i.e 328/512 = 0.640625	SuggestedRemedy See comment
For 2.5GBASE-KX we are making the entire PCS+PMA+PMD to be 1024 which is an integer pause_quanta. We are giving PCS more budget where it is needed instead of doing 512 bits for PCS+PMA and 512 bits for PMD.	Proposed Response Response Status O
SuggestedRemedy Delete PA comment in both cells	C/ 127
Proposed Response Response Status O	Comment Type E Comment Status X Add period at end of paragraph
	SuggestedRemedy See comment
	Proposed Response Response Status 0

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 Z/withdrawn SORT ORDER: Clause, Subclause, page, line

C/ **127** SC **127.2.6.1.3** Page 5 of 11 6/23/2016 9:13:52 AM

IEEE 802.3cb D1.0 TF Re IEEE 802.3cb D1.0 TF Review 2.5 Gb/s and 5 Gb/s Backplane Ethernet 1st Task Force review comments Review - D1.0 Comments

C/ 127 SC 127.2.6.1 Lo, William	.4 P 80 Marvell Semico	L 50 onducto	# 10	Cl 127 SC 127.2.6.2 Lo, William	2.7 P 95 Marvell Semic	L 4 conducto	# [13
Comment Type TR should be table 36-1a-6	Comment Status X			Comment Type TR Wrong reference (See Clause 36.2.5.2.9	Comment Status X		
SuggestedRemedy Change 36a-e to 36-1a-e				SuggestedRemedy Figure 127-10 should t	pe Table 36-10		
Proposed Response	Response Status O			Proposed Response	Response Status O		
Cl 127 SC 127.2.6.1 Lo, William	.4 P 81 Marvell Semico	L 4 onducto	# [11	Cl 128 SC 128.4 Lo, William	P 108 Marvell Semio	L 25	# 19
Comment Type TR should be table 36-1a-	Comment Status X			Comment Type E Delete extra comma	Comment Status X		
SuggestedRemedy Change 36a-e to				SuggestedRemedy Delete extra comma at	ter Clasue 31		
36-1a-e Two instances of this.				Proposed Response	Response Status O		
Proposed Response	Response Status O			Cl 128 SC 128.6.5 Lo, William	P 110 Marvell Semio	L 35 conducto	# 20
Cl 127 SC 127.2.6.2 Lo, William	.6 P 94 Marvell Semico	L 16 onducto	# 12	Comment Type ER Remove editor's note TBDs are resolved.	Comment Status X		
Comment Type TR) at the wrong place. Put it at the end.	Comment Status X			SuggestedRemedy Remove editor's note			
SuggestedRemedy) at the wrong place. Put it at the end just lik	e the other 4 states below it.			Proposed Response	Response Status 0		
Proposed Response	Response Status O						

IEEE 802.3cb D1.0 TF Re IEEE 802.3cb D1.0 TF Review 2.5 Gb/s and 5 Gb/s Backplane Ethernet 1st Task Force review comments Review - D1.0 Comments

Cl 128 SC 128.6.6 Lo, William	P 111 L 4 Marvell Semiconducto	# 21	Cl 128A SC Figure 128A-3 P 173 L 28 # 54 Smith, Daniel Seagate Technology				
Comment Type TR Wrong reference	Comment Status X		Comment Type TR Comment Status X reformat graph to match equation				
SuggestedRemedy Should be 45.2.1.1.5			SuggestedRemedy replace Figure with new plot from Dan Smith				
Proposed Response	Response Status O		Proposed Response Response Status O				
Cl 128 SC 128.7 Lo, William	P 112 L 3 Marvell Semiconducto	# [22	Cl 128A SC Figure 128A-7 P 177 L 51 # 55 Smith, Daniel Seagate Technology				
Comment Type ER Remove editor's note	comment Type ER Comment Status X Remove editor's note		Comment Type TR Comment Status X reformat graph to match equation and use logaritmic x-axis SuggestedRemedy				
TBDs are resolved. SuggestedRemedy Remove editor's note			replace Figure with new plot from Dan Smith Proposed Response Response Status O				
Proposed Response	Response Status O		CI 128D SC 128D.2.2 P 204 L 32 # 60 Smith, Daniel Seagate Technology				
CI 128A SC 128A.1 Smith, Daniel	P 172 L 52 Seagate Technology	# 53	Comment Type TR Comment Status X Insertion Loss is the incorrect term				
Comment Type TR 0.3608 s/b: 3.608 in first SuggestedRemedy	0.3608 s/b: 3.608 in first equation		SuggestedRemedy Change all "Insertion Loss" references to "Return Loss" on lines 32 and 37				
change equation 128A	-1		Proposed Response Response Status O				

Proposed Response

Response Status O

C/ 128D SC 128D.2.2 P 204 L 32 # 59 C/ 128D SC Figure 128D-5 P 205 L 19 # 58 Smith, Daniel Seagate Technology Smith, Daniel Seagate Technology Comment Type Comment Status X Comment Type Comment Status X TR TR Equation 128D-4 is incorrect reformat graph to match equation and use logaritmic x-axis SuggestedRemedy SuggestedRemedy Change equation 128D-4 to: replace Figure with new plot from Dan Smith y(f) = 17-f 0.01 <= f < 4Proposed Response Response Status O y(f)= 15-0.5f 4<=f<5.15625 Proposed Response Response Status O C/ 129 SC 129.1.1 P 125 L 12 Lo. William Marvell Semiconducto P 202 C/ 128D SC Figure 128D-2 L 27 # 56 Comment Type TR Comment Status X Smith, Daniel Seagate Technology Need both PCS and PMA Comment Type TR Comment Status X SuggestedRemedy reformat graph to match equation "the PMA" SuggestedRemedy should be replace Figure with new plot from Dan Smith "the PCS and PMA" Proposed Response Response Status 0 Proposed Response Response Status O C/ 128D SC Figure 128D-4 P 204 L 22 # 57 C/ 129 SC 129.1.3 P 126 L 33 # 24 Smith, Daniel Seagate Technology Lo, William Marvell Semiconducto Comment Status X Comment Type TR Comment Type TR Comment Status X reformat graph to match equation and use logaritmic x-axis Need both PCS and PMA SuggestedRemedy SuggestedRemedy "PMA" replace Figure with new plot from Dan Smith should be Proposed Response Response Status O "PCS and PMA" Proposed Response Response Status O

IEEE 802.3cb D1.0 TF Re IEEE 802.3cb D1.0 TF Review 2.5 Gb/s and 5 Gb/s Backplane Ethernet 1st Task Force review comments Review - D1.0 Comments

P 127 C/ 129 SC 129.2.1 L 46 # 25 C/ 129 SC 129.2.4 P 130 L 8 # 28 Lo. William Marvell Semiconducto Lo. William Marvell Semiconducto Comment Type Е Comment Status X Comment Type Comment Status X Add missing period at end of paragraph. It would be good if table 129-1 and 129-2 appear right after clause 129.2.4 since text is describing the tables. SuggestedRemedy SuggestedRemedy See comment See comment Proposed Response Response Status O Proposed Response Response Status O SC 129.2.2 P 129 # 26 C/ 129 L 30 C/ 130 SC 130.6.8 P 145 L 17 # 29 Lo, William Marvell Semiconducto Lo. William Marvell Semiconducto Comment Type TR Comment Status X Comment Type TR Comment Status X Incorrect variable label. Wrong reference SuggestedRemedy SuggestedRemedy rx_data_unit 45.2.1.7.1 should be should be 45.2.1.7.4 rx data-group Proposed Response Response Status O 2 instances Proposed Response Response Status O C/ 130 SC 130.7.1 P 146 L 35 # 51 Wu, Peter Marvell Semiconducto C/ 129 SC 129.2.3 P 129 # 27 L 34 Comment Type TR Comment Status X Lo, William Marvell Semiconducto The total jitter is 0.30 UI instaed of 0.28 UI at table 130-4 Comment Type Comment Status X SuggestedRemedy It would be good if Clause 129.2.3 heading and text appear before Figure 129-2 Change 0.28 to 0.30 since text is describing the figures. Proposed Response Response Status O SuggestedRemedy See comment

Response Status O

Proposed Response

C/ 130 SC 130.7.1.2 P 147 L 30 # 52 C/ 130 SC 130.7.1.6 P 149 L 34 # 48 Wu. Peter Marvell Semiconducto Wu. Peter Marvell Semiconducto Comment Type Comment Status X Comment Status X Ε Comment Type E At Equation 130-1, Return loss min is not necessary Same problem as we have at Equation 130-2. SuggestedRemedy SuggestedRemedy removed, it reads: remove "x" and pull "10" to "log", and remove "Returnloss min", add "MHZ" in Equation. Return loss(f) >= 20Return_loss(f) >= 7 - 13.275log10(f/1250MHz)Proposed Response Response Status O Proposed Response Response Status O C/ 130 SC 130.7.1.2 P 147 L 35 # 46 P 152 C/ 130 SC 130.7.1.11 L 3 # 49 Marvell Semiconducto Wu. Peter Wu, Peter Marvell Semiconducto Comment Type Ε Comment Status X Comment Type E Comment Status X At Equation 130-2, the X operator should be removed and base 10 should be pulled closer to log, and the "returnloss min" is not necessary, missing "MHz" (refer to missing desciption for v4 format used in Equation 72-3) SuggestedRemedy SuggestedRemedy remove "x" and pull "10" to "log", and remove "Returnloss min", add "MHZ" in Equation. v4 = mimimum voltage measured in the interval t3-T and t3 Proposed Response Response Status O Return_loss(f) >= 10 - 13.275log10(f/1289MHz)Proposed Response Response Status O C/ 130 SC 130.7.2.1 P 153 L 3 # 50 Wu, Peter Marvell Semiconducto C/ 130 SC 130.7.1.6 P 149 1 29 # 47 Comment Type Comment Status X ER Wu. Peter Marvell Semiconducto Table 130-6 has two tests defined, but at the decription, only one is Comment Type Ε Comment Status X mentioned. "Return_lossmin" at 130-5 is not necessary SuggestedRemedy SuggestedRemedy Changed the text to: Remove Returnloss min = The receiver interference tolerance shall consist of two separate tests as described in Annex 130B with the Proposed Response Response Status O Parameters specified in Table 130–6. The data pattern for the interference tolerance test shall be the test Patterns 2 or 3 as defined in 52.9.1.1. The receiver shall satisfy the requirements for interference tolerance specified in Annex 130B for both tests Proposed Response Response Status O

C/ 130A SC 130A.1 P 210 L 51 # 61 Smith, Daniel Seagate Technology Comment Type TR Comment Status X Incorrect coefficient in equation 130A-1 SuggestedRemedy Replace 0.3608 with 3.608 in first equation Proposed Response Response Status O C/ 130A SC Figure 130A-3 P 211 L 28 Smith, Daniel Seagate Technology Comment Type TR Comment Status X reformat graph to match equation SuggestedRemedy replace Figure with new plot from Dan Smith Proposed Response Response Status O C/ 130A SC Figure 130A-7 P 216 L 20 # 63 Smith, Daniel Seagate Technology Comment Status X Comment Type TR reformat graph to match equation and use logaritmic x-axis SuggestedRemedy replace Figure with new plot from Dan Smith Proposed Response Response Status 0