Cl 45	SC 45.2.1.6	P 21	L 21	# 1	CI 45	SC 45.2.1.20	P 22	L38	# 2			
Anslow, Pete Independent					Anslow, Pete Independent							
Comment Type TR Comment Status X Bucket The draft shows: 1 1 0 1 0 0 0 = 400GBASE-SR4 PMA/PMD 1 1 0 0 1 1 1 = 400GBASE-VR4 PMA/PMD 1 1 0 0 1 1 0 = 200GBASE-SR2 PMA/PMD 1 1 0 0 1 0 1 = 200GBASE-VR2 PMA/PMD 1 1 0 0 1 0 0 = 100GBASE-SR PMA/PMD					1.23.8 1.23.7 But th 1.23.8	raft shows : 3 200GBASE-SR2 7 200GBASE-VR2	2 ability ady allocated in P802.3c 2 ability			Bucket		
1 1 0 0 0 1 1 = 100GBASE-VR PMA/PMD but four of these choices are already allocated to other PMD types: 1 1 0 1 0 0 0 is 10GBASE-BR20-D in P802.3cp 1 1 0 0 1 1 1 is 10GBASE-BR10-D in P802.3cp 1 1 0 0 1 1 0 is not currently allocated						SuggestedRemedy Change the allocation to: 1.23.10 200GBASE-SR2 ability 1.23.9 200GBASE-VR2 ability						
	by P802.3cp	oranori modila po to par all oliv			CI 45	SC 45.2.1.21	P 23	L 23	# 3			
Suggeste	SuggestedRemedy				Anslow, P	ete	Independ	dent				
	Change the allocation to:				Comment	Type TR	Comment Status X			Bucket		
1 1 1 1 1 0 = 400GBASE-SR4 PMA/PMD 1 1 1 1 1 0 1 = 400GBASE-VR4 PMA/PMD 1 1 1 1 1 0 0 = 200GBASE-SR2 PMA/PMD 1 1 1 1 0 1 1 = 200GBASE-VR2 PMA/PMD 1 1 1 1 0 1 0 = 100GBASE-SR PMA/PMD					The draft shows: 1.24.11 400GBASE-VR4 ability But this bit is already allocated in P802.3cw to: 1.24.11 400GBASE-ZR ability SuggestedRemedy							
1 1 1 1 0 1 0 = 100GBASE-SR PMA/PMD 1 1 1 1 0 0 1 = 100GBASE-VR PMA/PMD												
Proposed	Response	Response Status O			To maintain the usual increasing reach with bit number, change the allocations to: 1.24.13 400GBASE-SR4 ability 1.24.12 400GBASE-VR4 ability							
					Proposed	Response	Response Status O					

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E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn SORT ORDER: Comment ID

ot ID **3** Page 1 of 6 5/11/2021 8:40:27 PM

Cl 45 SC 45.2.1.21a P24 L9 # 4 C/ 167 SC 167.7.3 P41 L24 Anslow, Pete Independent Bruckman, Leon Huawei Comment Type Т Comment Status X **Bucket** Comment Type Ε Comment Status X The draft shows: Unnecessary text "cabled optical" in Note b. I believe this text has been removed also in the similar clause in 802.3cu 1.26.11 100GBASE-SR ability However, a gap in the allocations was previously made for 100GBASE-SR ability as 1.26.2 SuggestedRemedy SuggestedRemedy Remove "cabled optical" Change the allocation to: Proposed Response Response Status O 1.26.2 100GBASE-SR ability Proposed Response Response Status O C/ 30 SC 30.5.1.1.2 P**7** L14 Dawe, Piers Nvidia C/ 00 SC 0 P L # Comment Type E Comment Status X Bucket Anslow. Pete Independent If ordered by length Comment Type ER Comment Status X SuggestedRemedy Recent convention in 802.3 PHY naming when there are existing -?R2 PHY types in existence is to name the single lane variant ?R1. Examples being: -KR1, -CR1, -FR1, -LR1 Should VR come before SR before100GBASE-SR4, VR2 before SR2 before 200GBASE-SR4. VR4 before SR4 before 400GBASE-SR16? SuggestedRemedy Proposed Response Response Status O Change 100GBASE-SR to 100GBASE-SR1 throughout the draft Proposed Response Response Status O C/ 30 P**7** SC 30.5.1.1.2 L25 Dawe. Piers Nvidia P C/ 00 SC 0 # 6 Comment Type E Comment Status X **Bucket** Anslow. Pete Independent 200GBASE-SR, 200GBASE-VR, 400GBASE-SR, 400GBASE-VR Comment Status X Comment Type ER Bucket SuggestedRemedy All external cross-references should be "Forest green" by using the "External" character tag as per the 802.3 FrameMaker template. 200GBASE-SR2, 200GBASE-VR2, 400GBASE-SR4, 400GBASE-VR4 SuggestedRemedy Proposed Response Response Status O Make all external cross-references "Forest green" by applying the "External" character tag

Proposed Response

as per the 802.3 FrameMaker template.

Response Status O

Cl 45	SC 45.2.1.6	P 9	L 21	# <u>1</u> 0	CI 80	SC 80.1.4	P 15	L18	# 14	
Dawe, Piers		Nvidia			Dawe, Pie	ers	Nvidia			
Comment Type E Shouldn't you show the		Comment Status X modified reserved rows?		Ви	ucket Comment Pleas	<i>Type</i> E e show the change	Comment Status X es in context		Bucke	
Suggested per co	dRemedy omment					e show one existin	g row before and after eacl	n new one, as 80	2.3ck does. Also for	
Proposed Response		Response Status O			Table <i>Proposed</i>	Response	Response Status O			
C/ FM	SC FM	P 11	L 54	# [11	C/ 91	SC 91.7.4.1	P 21		# 15	
Dawe, Pie	rs	Nvidia			, Dawe, Pie		Nvidia	L 12	# [13	
	are more amend	Comment Status X ments, ahead of this one but I	not yet published	Ви	Comment		Comment Status X		Bucket	
SuggestedRemedy Add IEEE Std 802.3cp		202x and possibly more			Suggeste	dRemedy				
Proposed Response		Response Status O			Proposed	Proposed Response	Response Status O			
CI 78	SC 78.1.4	P13	L12	# 12	C/ 116	SC 116.1.3	P 23		# 16	
Dawe, Pie	rs	Nvidia			Dawe, Pie		Nvidia	L41	# [16	
Comment Type E after 400GBASE-SR4.		Comment Status X		Ви	Comment		Comment Status X		Bucket	
Suggested	dRemedy									
after 4	00GBASE-SR16	, or possibly after 400GBASE	-SR8		Suggeste Refor	e, going by reach				
Proposed Response		Response Status O				Response	Response Status O			
CI 78	SC 78.1.4	P13	L13	# [13						
Dawe, Piers		Nvidia								
Comment This is	Type E s too hard to follow	Comment Status X		Ви	ıcket					
Suggested Please		ne existing row before and afte	er each new one, as	s 802.3cd did						

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: Comment ID

Response Status O

Proposed Response

C/ 116 SC 116.1.	4 P 25	L 29	# <u>1</u> 7	C/ 167 SC 167.1.	1 P31	L50	# 20			
Dawe, Piers	Nvidia			Dawe, Piers	Nvidia					
Comment Type E	Comment Status X		Bucket	Comment Type T	Comment Status X		Bucket			
	ould come before 400GBASE-S	SR4.2, and I thinl	t it goes after	FEC (Clause 134 or	Clause 91) and PCS (Clause 1	133 or Clause 82).				
400GBASE-SR8				SuggestedRemedy						
SuggestedRemedy	D			FEC (Clause 91) and PCS (Clause 82).						
Swap 400GBASE-S	R4 and 400GBASE-SR4.2, bot	h row and colum	n	Proposed Response	Response Status O					
Proposed Response	Response Status 0			, ,						
0/40= 00 40=4	D00		" [10	C/ 167 SC 167.2	P 32	L 20	# 21			
C/ 167 SC 167.1	P 30	L9	# 18	Dawe, Piers	Nvidia					
Dawe, Piers	Nvidia			Comment Type T	Comment Status X		Bucket			
Comment Type E	Comment Status X			116.3						
This table can be pr	esented better by leaving out th	e unnecessary "	Not applicable" entries	SuggestedRemedy						
SuggestedRemedy				80.3?						
	use/annex no., description for 2 atus. Similarly for tables 163-2		for 400G, and	Proposed Response	Response Status O					
Proposed Response	Response Status 0									
				C/ 167 SC 167.7.	1 P39	L 32	# 22			
C/ 167 SC 167.1	P 31	L 7	# 19	Dawe, Piers	Nvidia					
Dawe, Piers	Nvidia			Comment Type E	Comment Status X		Bucket			
Comment Type E	Comment Status X		Bucket	This has TECQ before	ore TDECQ while 802.3cu has t	he reverse.				
Empty line				SuggestedRemedy						
SuggestedRemedy				Consider which is pr	referable. Plan to adjust 802.3d	cu in maintenance,	, or modify this table.			
Remove				Proposed Response	Response Status O					
Proposed Response	Response Status O									

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: Comment ID

C/ 167 SC 167.7.1 P39 L32 # 23 C/ 167 SC 167.8.7 P44 L42 # 26 Dawe, Piers Dawe, Piers Nvidia Nvidia Comment Type Т Comment Status X Comment Type т Comment Status X As the channel is relatively slower than for other optical PMDs, we should recognise a 1E-2 allows too much of the waveform beyond the limit and does a poor job of controlling different balance of penalties while encouraging good (equalisable) transmitters. overshoot SuggestedRemedy SuggestedRemedy Insert rows for TECQ-10.log10(Ceg') and TECQ-10.log10(Ceg'), limit TBD between 3.4 and Change to 3E-3 TBC for now, and let people try that in the lab 4 dB. Consider if TDECQ max (and SECQ) should be increased. TECQ limit is probably Proposed Response Response Status O about right. Proposed Response Response Status O C/ 167 SC 167.8.10 P45 L18 Dawe, Piers Nvidia P**41** # 24 C/ 167 SC 167.8.1 L51 Comment Type E Comment Status X Bucket Dawe. Piers Nvidia This sentence (and one in 167.8.13) is too long and hard to understand. It should be Comment Type T Comment Status X **Bucket** divided in two. as in 167.8.5 and 167.8.6. Scrambled idle 119.2.4.9 SuggestedRemedy SugaestedRemedy Change "response to at least 1.3 x 53.125 GHz and at frequencies above 1.3 x 53.125 GHz Scrambled idle or scrambled Remote Fault 82.2.11 or 82.2. 119.2.4 or 119.2.4.9 the response should not exceed -24 dB." to "response to at least 1.3 x 53.125 GHz. At frequencies above 1.3 x 53.125 GHz the response should not exceed -24 dB." Proposed Response Response Status O Similarly in 167.8.13. Proposed Response Response Status O # 25 C/ 167 SC 167.8.5.1 P43 L51 Dawe. Piers Nvidia C/ 167 SC 167.10.1 P49 L25 # 28 Comment Type T Comment Status X Dawe, Piers Nvidia We have 9 taps rather than the usual 5 because the channel is relatively slower than for Comment Type E Comment Status X Bucket other optical PMDs. So the last few taps should be correcting the tail of the response and and400GBASE-SR4. should be quite small. SuggestedRemedy SuggestedRemedy Impose limits on the absolute values of tap coefficients 7, 8 and 9. Also for the last taps for insert a space TECQ, depending how long that reference equalizer is.

Proposed Response

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

Response Status O

Response Status O

Proposed Response

C/ 167 SC 167.11.3 P54 L6 Dawe, Piers Nvidia Comment Type Ε Comment Status X Bucket PICS needs work SugaestedRemedy Revise PICS Proposed Response Response Status O P43 L25 C/ 167 SC 167.8.5 # 30 Le Cheminant, Greg Keysight Technologies

Comment Status X

The reference receiver bandwidth for TDECQ analysis is typically at half baud to emulate DSP based receivers with anti-aliasing filters. For multimode transmitter test, the observation bandwidth is reduced further to emulate the dispersion that is created by the fiber span. An alternative approach should be considered. The transmitter waveform is acquired in the half-baud bandwidth. For TECQ, this waveform can be directly analyzed. For TDECQ, the waveform is additionally passed through a second processing block that emulates the fiber. This could be as simple as a low-pass Bessel-Thomson filter, but could be something that better emulates the physical impact of the fiber span, to be determined by the group. This method has the advantage of being able to provide several transmitter metrics, for both SR and VSR requirements, with a single oscilloscope acquisition, reducing overall test time and cost, and likely better emulating the true channel respnse

SugaestedRemedy

Comment Type T

Change the text of lines 24-34 of page 43 (55 in the overall document) to read: The combination of the O/E converter and the oscilloscope used to measure the optical waveform has a 3 dB bandwidth of approximately 26.5 GHz with a fourth-order Bessel-Thomson response to at least 1.5 × 26.5 GHz. At frequencies above 1.5 × 26.5 GHz. the response should not exceed 24 dB. Compensation may be made for any deviation from an ideal fourth-order Bessel-Thomson response. Prior to TDECQ analysis the waveform is passed through a function that emulates the response of the maximum allowed fiber span. This function is described as TBD

Proposed Response Response Status 0 C/ 167 SC 167.10.3.3 P52 L24 # 31

Xie, Chongjin Alibaba Comment Type TR Comment Status X

Figure 167-8 only includes diagrams for flat 12 fiber MPO connectors.

SuggestedRemedy

Add diagrams that illustrate APC 12 fiber MPO connectors

Proposed Response Response Status O

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general SORT ORDER: Comment ID

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