C/ 45 SC 45.2.1.14b P 21 L 23 # 18
Slavick, Jeff Broadcom Limited
Comment Type TR Comment Status D
100G, 200G, 400G have a bit indicating when the PMA supports remote loopback Ability
bit. This bit is missing from the 25GE extended ability register
SuggestedRemedy
Define bit 15 of the 25G extended ability register (1.19) to be: 1.19.15 25G PMA remote loopback ability
1 = 25G PMA has the ability to perform a remote loopback function
0 = 25G PMA does not have the ability to perform a remote loopback function RO
45.2.1.14b.aa 25G PMA remote loopback ability (1.19.15)
When read as a one, bit 1.19.15 indicates that the 25G PMA is able to perform the remote loopback function. When read as a zero, bit 1.19.15 indicates that the 25G PMA is not able to perform the remote able to perform the remote the term of the remote the term of the remote term of term
to perform the remote loopback function. If a 25G PMA is able to perform the remote
loopback function, then it is controlled using the PMA remote loopback bit 1.0.1 (see 45.2.1.1.4).
Proposed Response Response Status W
PROPOSED REJECT.
IEEE Std 802.3by-2016 defines the 25G PMA remote loopback capability in bit 1.13.15 in the 40G/100G PMA/PMD extended ability register. See Clause 109 (Table 109-3).
C/ 105 SC 105.1.1 P 23 L 13 # 2 Anslow, Pete Ciena
Comment Type E Comment Status D
The changes shown do not correctly reflect the base document as modified by IEEE Std
802.3bq-2016.
The "and" in strikethrough is in the wrong place and "25GBASE-T" should not be
underlined.
underlined. SuggestedRemedy Change to "25GBASE-KR-S, 25GBASE-SR, and 25GBASE-T, 25GBASE-LR, and
SuggestedRemedy
SuggestedRemedy Change to "25GBASE-KR-S, 25GBASE-SR, and 25GBASE-T, 25GBASE-LR, and 25GBASE-ER" where the first "and " is in strikethrough font and just ", 25GBASE-LR, and

C/ 105 SC 105.1.1

105 SC 105.1.1 P 23 L 13 # 14 w, David HPE	C/ 105 SC 105.1.2 P 23 L 22 # 7 Anslow, Pete Ciena
As IEEE Std 802.3bq 25GBASE-T is an approved IEEE standard the base text at the of the first paragraph of subclause reads ' 25GBASE-KR-S, 25GBASE-SR, and 25GBASE-T.'. On that basis the change text should read ' 25GBASE-KR-S, 25GBASE-KR-S, 25GBASE-T <u>, 25GBASE-LR, and 25GBASE-ER</u> . <i>IggestedRemedy</i>	Where did this come from?
See comment. oposed Response Response Status W PROPOSED ACCEPT.	Delete "in Clause 113 for 25GBASE-T," from item c) Proposed Response Response Status W PROPOSED ACCEPT.
105 SC 105.1.2 P 23 L 16 # 15 w, David HPE	C/ 105 SC 105.1.2 P 23 L 31 # 8 Anslow, Pete Ciena
T Comment Status D Rather than modify item c) of subclause 105.1.2 to add 25GBASE-T the published IE Std 802.3bq-2016 25GBASE-T standard adds a new item d) to the list that reads 'd) MDI as specified in Clause 113 for 25GBASE-T uses a 4 lane data path.' (see IEEE 802.3bq-2016 page 69). I believe that this is because item c) lists the single-lane date PHY's yet 25GBASE-T uses a 4 lane data path. The change to item c) in IEEE P802 draft D2.1 however adds 25GBASE-T to the item c) list, as well as 25GBASE-LR, ar 25GBASE-ER. I don't believe it is correct to add 25GBASE-T and this change should removed. uggestedRemedy Suggest that:	The Where did this come from? IEEE Std 802.3bq-2016 added a new third paragraph to cover 25GBASE-T which is not path covered by the term "25GBASE-R" ICC SuggestedRemedy

C/ 105 SC 105.1.3 4 Group recirculation ballot comme

C/ 105	SC 105.1.3	P 23	L 32	# 17	C/ 114 SC 114.5.4
Law, David	Ł	HPE			Dawe, Piers
IEEE S this is 25GB/ D2.1 h	r than modify the s Std 802.3bq-2016 because the seco ASE-T is. The cha lowever adds 25G	Comment Status D second paragraph of 105.1.3 25GBASE-T standard adds nd paragraph describes 64E nge to the second paragraph BASE-T, as well as 25GBAS d should be removed.	a new third para 3/66B PHYs whi h of 105.1.3 in I	agraph. I believe that ch I don't believe EEE P802.3cc draft	Comment Type T The signal detect limit receive power (-21 dE SuggestedRemedy Either, change the Av to -27 dBm. Or, change the Avera
[1] The	est that:	.3 editing instructions text '			change the Average of dBm. This does not DC extinction ratio les transmitters. To pres
802.3t [2] The	oy-2016)'. e subclause 105.1	02.3bq- 2016)' be changed .3 change text be changed t 25GBASE-LR, and 25GBAS	o read ' 25GB		0.8 dB or tweak the m Proposed Response PROPOSED ACCEP
Proposed PROP	Response OSED ACCEPT.	Response Status W			C/ 114 SC 114.6.1 Dawe, Piers
C/ 105	SC 105.5	P 25	L 14	# 3	Comment Type T
Suggested	Type E missing in "2016) <i>IRemedy</i>	Ciena <i>Comment Status</i> D and"			The 25GBASE-ER ex operate over a wide te receiver reflectance a extinction ratio. The A and min IL, that mean change.
-	je to "2016) and"				SuggestedRemedy
Proposed	•	Response Status W			Change 4 dB to 3.5 d
PROP	OSED ACCEPT.				Proposed Response
C/ 108	SC 108.7.4.2	P 27	L 29	# 4	PROPOSED REJECT
Anslow, Pe	ete	Ciena			Repeat of past discus
	ients #43 and #83	Comment Status D against D2.0 were ACCEPT tatus column as a change fr		in 802.3by."	
Suggested In "BE		R):M" show "(" and " or LR o	r ER)" in underli	ine font	
Proposed	Response	Response Status W	·		

C/ 114 SC	\$ 114.5.4	P 32	L 6	# 25
Dawe, Piers		Mellanox		
Comment Type	т	Comment Status D		

nit for 25GBASE-ER (-25 dBm) is now too near the minimum average Bm). There should be at least 6 dB, preferably 7 dB, between them.

verage optical power at TP3 FAIL limit in Table 114-4 for ER from -25

age launch power (min) in Table 114-6 for ER from -3 to -2.2, and optical power at TP3 FAIL limit in Table 114-4 for ER from -25 to -26 make any difference to transmitters with more than 1.8 dB TDP or a ess than 10, nor does it stop implementers making high extinction serve the LR-ER interop, increase the LR Tx and Rx min average by max and min losses in Table 114-10.

Proposed Response	Response Status	W
PROPOSED ACCEPT	IN PRINCIPLE.	

C/ 114	SC 114.6.1	P 34	L7	# 2	4
Dawe, Piers		Mellanox		-	

Comment Status D

extinction ratio limit should be relaxed to allow low cost transmitters that temperature range. 10GBASE-ER has a 3 dB limit with the same and worse TDP than 25GBASE-ER, so there is room to relax the APD receiver is protected by limits on max OMA, max average power an that the highest power in 0, 1 or average is not affected by this

dB

Response Status W

CT.

ussion, where consensus was for 4 dB.

'	,	· · · /· ·	 	
PRO	POSED ACCE	PT.		

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/ 114 SC 114.6.1 Page 3 of 6 2017/02/15 5:41:28

C/ 114 SC 114.6.1 Dawe, Piers	P 34 Mellanox	L 7	# 26	C/ 114 Anslow, Pe	SC 114.7.2	<i>P</i> 36 Ciena	L 46	# 10
operate over a wide te because the laser has better receiver reflecta	0	hould be lower t he here becaus -LR. The receiv	han 10GBASE-LR e 25GBASE-LR has rer is protected by limits	This te Why w The m the int Suggested Chang Proposed	ext "if measured" ext was propose vas a change m nodified text can cent. d <i>Remedy</i> ge "when measu	be read to say that this measured" as red" back to "if measured" as <i>Response Status</i> W	t #87, but this wa surement must be	
	sion, where consensus of grou tions, such as CWDM4 or PSI P 35		B for consistency with	C/ 114 Dudek, Mil Comment	Туре Т	D P 39 Cavium Comment Status D 95.8.8 includes 95.8.8.2 whic	L 15	# 20
Dudek, Mike Comment Type TR	Cavium Comment Status D			sinusc	oidal jitter, interfe	erers and noise turned off. T 2.5dB SEC that is the target.		
wide whereas the TDF	ure is measured at +/-0.05UI of s measured with a minimally in the budget to allow for this of	narrow sample	at the middle of the	Suggested Add a	dRemedy n additional exc	quirement to meet the stress	by the selection of	f the appropriate
	eye closure value to account fo ith no other changes is sugge		e. Changing the value	sinusc	oidal jitter, sinus	abination of the low-pass filter oidal interferer 1, sinusoidal i s at least 2.0dB.		
Proposed Response	Response Status W			Add to	the exceptions	in bullet c), SRS eye mask.		
PROPOSED ACCEPT Discuss appropriate va				Proposed PROP	Response POSED ACCEP	Response Status W T.		

C/ 114 SC 114.7.10

C/ 114 SC 114.10 Dudek, Mike	<i>P</i> 39 Cavium	L 43	# 21	C/ 114 Anslow, Pet	SC 114.11 te	P 40 Ciena	L 27	# 13
Comment Type T The specification is refe 14 which is not correct 2.0 what was accepted SuggestedRemedy	Comment Status D erred to 88.11. However that for these PMD's (note that th but not implemented).	his is a repeat of	comment #96 on draft	Comment 7 The ins LR Tx t The LR The ER This lim At max For ma dBm	Type T erition loss requores the R Rx transmitter has traceiver can route the LR Tx to TDP, the LR tr x TDP the ER r	Comment Status D uirements in Table 114-12 do s an average launch power of eceive an average power of - o ER Rx channel insertion los ansmitter has an OMA of -5 -1 receiver sensitivity OMA is -19 o ER Rx channel insertion los	-7 dBm min and 21 dBm min and s to be between - 2.7 = -2.3 dBm 9 + 2.7 = -16.3 df	I 2 dBm max -4 dBm max 14 dB and 6 dB min and 2.2 dBm max 3m and overloads at -
Cl 114 SC 114.11 Anslow, Pete Comment Type E "Table 114-12" should I SuggestedRemedy Make it a cross-referen Proposed Response PROPOSED ACCEPT.	ce Response Status W	L 50	# 5	this is ti ER Tx t The ER The LR This lim At max For ma 2.2 dBr This lim As the a directio	he more stringe to LR Rx R transmitter ha receiver can re- hits the ER Tx to TDP, the ER tr x TDP the LR r hits the ER Tx to average power n.	s an average launch power o eceive an average power of - o LR Rx channel insertion los ransmitter has an OMA of -1 - eceiver sensitivity OMA is -11 o LR Rx channel insertion los requirements are more string	values for this di f -3 dBm min and 13.3 dBm min and s to be between + 2.7 = 1.7 dBm n - 3 + 2.7 = -8.6 d s to be between	rection. d 6 dBm max d 2 dBm max 10.3 dB and 4 dB min and 6 dBm max Bm and overloads at 10.3 dB and 3.8 dB.
SuggestedRemedy	P 39 Ciena Comment Status D Id be improved by following th e 114-12" to "given in Table 1 Response Status W			For ER Proposed R PROPC Discuss Loss ra	Tx to ER Rx ch Tx to LR Rx ch Response DSED ACCEPT s. Existing value nge was intend	hange the min loss to 6.2 dB a hange the max loss to 10.3 dE <i>Response Status</i> W F IN PRINCIPLE. es were based on practical va ded to maintain some margin ss, then can change as propo	3. alues for attenuat from extremes. E	ors and their toleranc

C/ 114 SC 114.11

Anslow, Pet	SC 114.11 e	P 40 Ciena	L 31	# 12
		<i>Comment Status</i> D able 114-12 do not come than clarity.	from the equivalent	table in 87.12 and
SuggestedF				
Delete k	ooth footnotes			
Proposed R PROPC		Response Status W IN PRINCIPLE.		
Propose	e to make simila	ar to table in 87.12.		
C/ 114	SC 114.11	P 40	L 33	# 23
Dudek, Mike	e	Cavium		
Comment T	ype TR	Comment Status D		
SuggestedF	-	This should be the loss ard.	·	5
Delete f	ootnote b.			
In section can be of	on 114.11 add t created by using	he following. "These max g additional fixed optical a hannel loss without the a	attenuators in the ch	
In section can be of	on 114.11 add t created by using endent on the c	g additional fixed optical a	attenuators in the ch	
In section can be of are dep Proposed R	on 114.11 add t created by using endent on the c cesponse	g additional fixed optical a hannel loss without the a	attenuators in the ch	
In section can be of are dep Proposed R PROPC	on 114.11 add t created by using endent on the c cesponse OSED ACCEPT e to remove bot	g additional fixed optical a hannel loss without the a <i>Response Status</i> W	attenuators in the ch ttenuator."	annel whose values
In section can be of are dep Proposed R PROPC Propose	on 114.11 add t created by using endent on the c cesponse OSED ACCEPT e to remove bot	g additional fixed optical a hannel loss without the a <i>Response Status</i> W IN PRINCIPLE.	attenuators in the ch ttenuator."	annel whose values
In section can be of are dep <i>Proposed R</i> PROPC Propose Comme	on 114.11 add t created by using endent on the c esponse DSED ACCEPT e to remove bot ent #12. SC 114.12	g additional fixed optical a hannel loss without the a <i>Response Status</i> W IN PRINCIPLE. h footnotes to make simil	attenuators in the ch ttenuator." ar to Table 87-16, a	annel whose values s suggested in
In section can be of are dep Proposed R PROPC Propose Comme C/ 114	on 114.11 add t created by using endent on the of PSED ACCEPT e to remove bot ent #12. SC 114.12 re	g additional fixed optical a channel loss without the a <i>Response Status</i> W IN PRINCIPLE. h footnotes to make simil	attenuators in the ch ttenuator." ar to Table 87-16, a	annel whose values s suggested in
In section can be of are dep Proposed R PROPC Propose Comme Cl 114 Anslow, Pet Comment T As type	on 114.11 add t created by using endent on the of PSED ACCEPT e to remove bot ent #12. SC 114.12 e ype E was changed to	g additional fixed optical a hannel loss without the a <i>Response Status</i> W IN PRINCIPLE. h footnotes to make simil <i>P</i> 41 Ciena	attenuators in the ch ttenuator." ar to Table 87-16, a <i>L</i> 2 e clause by commer	annel whose values s suggested in # 9
In section can be of are dep Proposed R PROPC Propose Commen Cl 114 Anslow, Pet Comment T As type reflected SuggestedF	on 114.11 add t created by using endent on the of DSED ACCEPT e to remove bot ent #12. SC 114.12 re was changed to d in the title of 1 Remedy	g additional fixed optical a hannel loss without the a <i>Response Status</i> W IN PRINCIPLE. h footnotes to make simil <i>P</i> 41 Ciena <i>Comment Status</i> D o types in the name of the	attenuators in the ch ttenuator." ar to Table 87-16, a <i>L</i> 2 e clause by commer .12.1	annel whose values s suggested in # 9 ht #84, this should be

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

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