C/ 000 SC 0 Booth, Brad	P 1 Microsoft	L 1	# 7	C/ <b>004A</b> SC <b>4a.4.2</b> Dudek, Mike	<i>P</i> <b>199</b> QLogic	L <b>22</b>	# 65
Comment Type E Inconsistent use of 25	Comment Status D Gigabit Attachment Unit Inter	face.		Comment Type <b>T</b> The note3 needs to re	Comment Status X eference the 25G-MII signal.		
SuggestedRemedy				SuggestedRemedy			
Search and replace 28 Attachment Unit Interf	5 Gb/s or 25Gb/s Attachment	Unit Interface wi	ith 25 Gigabit	Add "or 25G-MII" so the Add "or 25G-MII" so the NOTE 3—For 10 Gb/s	hat the note reads s and 25 Gb/s operation, the s	spacing between	two packets from the
Proposed Response	Response Status <b>O</b>			last bit of the FCS fiel	d of the first packet to the first inimum value of 40 BT (bit tim	bit of the Pream	ble of the second
C/ 000 SC 0 Booth, Brad	P 1 Microsoft	L 1	# 5	Proposed Response	Response Status <b>O</b>		
Comment Type E	Comment Status D			C/ 030 SC 30.3.2.1	.5 P 29	L 38	# 19
There are multiple ins	tances throughout the draft wh			Anslow, Pete	Ciena		
There are multiple ins Independent Interface	tances throughout the draft wh (25G-MII)" is used over and c			Anslow, Pete Comment Type E	Ciena Comment Status X		
There are multiple ins Independent Interface throughout without the SuggestedRemedy	tances throughout the draft wh (25G-MII)" is used over and c e extra verbiage.	over; whereas, th	ne draft uses "25G-AUI"	Comment Type E		indented as per	the APPROPRIATE
There are multiple ins Independent Interface throughout without the SuggestedRemedy After the first use of "2	tances throughout the draft wh (25G-MII)" is used over and c	over; whereas, th	ne draft uses "25G-AUI"	Comment Type E The BEHAVIOUR DE	Comment Status X	indented as per	the APPROPRIATE
There are multiple ins Independent Interface throughout without the SuggestedRemedy After the first use of "2 "25G-MII" only.	tances throughout the draft wh (25G-MII)" is used over and c e extra verbiage. 25 Gigabit Media Independent	over; whereas, th	ne draft uses "25G-AUI"	Comment Type E The BEHAVIOUR DE SYNTAX: section.	Comment Status X	indented as per	the APPROPRIATE
There are multiple ins Independent Interface throughout without the SuggestedRemedy After the first use of "2 "25G-MII" only.	tances throughout the draft wh (25G-MII)" is used over and c e extra verbiage.	over; whereas, th	ne draft uses "25G-AUI"	Comment Type E The BEHAVIOUR DE SYNTAX: section. SuggestedRemedy	Comment Status X	indented as per	the APPROPRIATE
There are multiple ins Independent Interface throughout without the SuggestedRemedy After the first use of "2 "25G-MII" only. Proposed Response	tances throughout the draft wh (25G-MII)" is used over and c e extra verbiage. 25 Gigabit Media Independent	over; whereas, th	ne draft uses "25G-AUI"	Comment Type E The BEHAVIOUR DE SYNTAX: section. SuggestedRemedy Fix the indenting Proposed Response	Comment Status X FINED AS: section should be Response Status O		the APPROPRIATE
There are multiple ins Independent Interface throughout without the SuggestedRemedy After the first use of "2 "25G-MII" only. Proposed Response	tances throughout the draft wh e (25G-MII)" is used over and c e extra verbiage. 25 Gigabit Media Independent <i>Response Status</i> <b>O</b>	over; whereas, th	MII)" use the acronym	Comment Type E The BEHAVIOUR DE SYNTAX: section. SuggestedRemedy Fix the indenting Proposed Response Cl 030 SC 30.3.2.1	Comment Status X FINED AS: section should be Response Status O .5 P 29	indented as per	the APPROPRIATE
There are multiple ins Independent Interface throughout without the SuggestedRemedy After the first use of "2 "25G-MII" only. Proposed Response C/ 001 SC 1.3 Dudek, Mike	tances throughout the draft wh e (25G-MII)" is used over and c e extra verbiage. 25 Gigabit Media Independent <i>Response Status</i> <b>O</b> <i>P</i> <b>24</b>	over; whereas, th	MII)" use the acronym	Comment Type E The BEHAVIOUR DE SYNTAX: section. SuggestedRemedy Fix the indenting Proposed Response C/ 030 SC 30.3.2.1 Booth, Brad	Comment Status X FINED AS: section should be Response Status O .5 P 29 Microsoft		
There are multiple ins Independent Interface throughout without the SuggestedRemedy After the first use of "2 "25G-MII" only. Proposed Response C/ 001 SC 1.3 Dudek, Mike Comment Type T	tances throughout the draft wh e (25G-MII)" is used over and c e extra verbiage. 25 Gigabit Media Independent <i>Response Status</i> <b>O</b> <i>P</i> <b>24</b> QLogic	over; whereas, th Interface (25G-l	me draft uses "25G-AUI" MII)" use the acronym # 70	Comment Type E The BEHAVIOUR DE SYNTAX: section. SuggestedRemedy Fix the indenting Proposed Response CI 030 SC 30.3.2.1 Booth, Brad Comment Type E	Comment Status X FINED AS: section should be Response Status O .5 P 29 Microsoft Comment Status X	L <b>52</b>	# 1
There are multiple ins Independent Interface throughout without the SuggestedRemedy After the first use of "2 "25G-MII" only. Proposed Response C/ 001 SC 1.3 Dudek, Mike Comment Type T Why is the footnote th	tances throughout the draft wh e (25G-MII)" is used over and c e extra verbiage. 25 Gigabit Media Independent <i>Response Status</i> <b>O</b> <i>P</i> 24 QLogic <i>Comment Status</i> <b>X</b>	over; whereas, th Interface (25G-l	me draft uses "25G-AUI" MII)" use the acronym # 70	Comment Type E The BEHAVIOUR DE SYNTAX: section. SuggestedRemedy Fix the indenting Proposed Response CI 030 SC 30.3.2.1 Booth, Brad Comment Type E	Comment Status X FINED AS: section should be Response Status O .5 P 29 Microsoft	L <b>52</b>	# [1
There are multiple ins Independent Interface throughout without the SuggestedRemedy After the first use of "2 "25G-MII" only. Proposed Response CI 001 SC 1.3 Dudek, Mike Comment Type T Why is the footnote th SuggestedRemedy	tances throughout the draft wh e (25G-MII)" is used over and c e extra verbiage. 25 Gigabit Media Independent <i>Response Status</i> <b>O</b> <i>P</i> 24 QLogic <i>Comment Status</i> <b>X</b>	ver; whereas, th Interface (25G-l <i>L</i> 15 <sup>=</sup> documents be	me draft uses "25G-AUI" MII)" use the acronym # 70	Comment Type E The BEHAVIOUR DE SYNTAX: section. SuggestedRemedy Fix the indenting Proposed Response C/ 030 SC 30.3.2.1 Booth, Brad Comment Type E Media Independent In SuggestedRemedy	Comment Status X FINED AS: section should be Response Status O .5 P 29 Microsoft Comment Status X sterface is in the definitions as	L <b>52</b> referencing Clau	# 1 use 22.
There are multiple ins Independent Interface throughout without the SuggestedRemedy After the first use of "2 "25G-MII" only. Proposed Response Cl 001 SC 1.3 Dudek, Mike Comment Type T Why is the footnote th SuggestedRemedy	tances throughout the draft wh e (25G-MII)" is used over and c e extra verbiage. 25 Gigabit Media Independent <i>Response Status</i> <b>O</b> <i>P</i> <b>24</b> QLogic <i>Comment Status</i> <b>X</b> nat describes where to find SFI	ver; whereas, th Interface (25G-l <i>L</i> 15 <sup>=</sup> documents be	me draft uses "25G-AUI" MII)" use the acronym # 70	Comment Type E The BEHAVIOUR DE SYNTAX: section. SuggestedRemedy Fix the indenting Proposed Response C/ 030 SC 30.3.2.1 Booth, Brad Comment Type E Media Independent In SuggestedRemedy	Comment Status X FINED AS: section should be Response Status O .5 P 29 Microsoft Comment Status X	L <b>52</b> referencing Clau	# <u>1</u> use 22.

C/ 030 SC 30.3.2.1.5 Page 1 of 30 2015-02-23 3:51:18 PM

Cl         030         SC         30.6.1.1.5         P 34           Anslow, Pete         Ciena	L <b>5</b> # 16	C/         045         SC         45.2.1.4         P 36         L 46         # 37           Marris, Arthur         Cadence
Comment Type E Comment Status X The other entries in this list appear in speed and ther	n distance order.	Comment Type         E         Comment Status         X           RO should not be underlined because the editorial instruction is insert rather than
SuggestedRemedy Unless there is a good reason not to, insert the 25G of entries. Proposed Response Response Status <b>O</b>	entries between the 10G and 40G	SuggestedRemedyRemove underlining of RO.Proposed ResponseResponse StatusO
C/ 045 SC 45.2.1 P 35 Anslow, Pete Ciena	L 20 # 20	C/         045         SC         45.2.1.95         P 42         L 23         # 71           Dudek, Mike         QLogic
Comment Type T Comment Status X This draft is allocating Register 1.17 to the "25G PM/ the P802.3bn draft D1.3 has allocated 1.17 to "EPoC Also, the last word "register" should not appear in the it does in a few) SuggestedRemedy	PMA/PMD ability register"	The change instruction is missing the "BASE-R" SuggestedRemedy Change :" Single lane PHY FEC" to "Single lane PHY BASE_R FEC" Proposed Response Response Status <b>O</b>
Change the row to: 1.19, 25G PMA/PMD extended ability, 45.2.1.14c with consequent changes to what is currently 45.2.1. Table 45-17c	14a and changing the table there to	C/ 045 SC 45.2.1.95 P 42 L 24 # 17
Change the row to: 1.19, 25G PMA/PMD extended ability, 45.2.1.14c with consequent changes to what is currently 45.2.1. Table 45-17c Proposed Response Response Status <b>O</b>		
Change the row to: 1.19, 25G PMA/PMD extended ability, 45.2.1.14c with consequent changes to what is currently 45.2.1. Table 45-17c Proposed Response Response Status O Cl 045 SC 45.2.1 P 35	14a and changing the table there to     L 21	Cl 045       SC 45.2.1.95       P 42       L 24       # 17         Anslow, Pete       Ciena         Comment Type       E       Comment Status       X         The editing instruction contains: " to "Single lane PHY FEC uncorrected blocks counter"". However, this should be " to "Single lane PHY BASE-R FEC uncorrected blocks counter"
Change the row to:1.19, 25G PMA/PMD extended ability, 45.2.1.14cwith consequent changes to what is currently 45.2.1.Table 45-17cProposed ResponseResponse StatusOCl 045SC 45.2.1P 35Marris, ArthurCadence	L 21 # <u>38</u>	Cl 045       SC 45.2.1.95       P 42       L 24       # 17         Anslow, Pete       Ciena         Comment Type       E       Comment Status X         The editing instruction contains: " to "Single lane PHY FEC uncorrected blocks counter"". However, this should be " to "Single lane PHY BASE-R FEC uncorrected blocks
Change the row to: 1.19, 25G PMA/PMD extended ability, 45.2.1.14c with consequent changes to what is currently 45.2.1. Table 45-17c Proposed Response Response Status O C/ 045 SC 45.2.1 P 35 Marris, Arthur Cadence Comment Type T Comment Status X Use of register 1.17 clashes with EPOC. There are o	L 21 # 38	Cl 045       SC 45.2.1.95       P 42       L 24       # 17         Anslow, Pete       Ciena         Comment Type       E       Comment Status X         The editing instruction contains: " to "Single lane PHY FEC uncorrected blocks counter"". However, this should be " to "Single lane PHY BASE-R FEC uncorrected blocks counter""         SuggestedRemedy       Change:         " to "Single lane PHY FEC uncorrected blocks counter"" to:

C/ 045 SC 45.2.1.95

Cl 045 SC 45.2.1.95 Ran, Adee	P <b>42</b> Intel	L <b>40</b>	# 9	alignment i a zero, this one, this bi
Comment Type E Cor	nment Status X			Proposed Resp
Some of the RS-FEC MDIO re			include references to	
clause 91. References to clau The following subclauses nee				C/ 045 So Anslow, Pete
45.2.1.101.1 and 45.2.1.101.2	2 (add references to 1	08.5.3.2)		Comment Type
45.2.1.102.1 and 45.2.1.102.2 below is valid for both the 108 "locked and aligned all lanes".	meaning of "locked t			Spurious "\ SuggestedRem Delete the
45.2.1.102.7, 45.2.1.102.8, 45	5.2.1.102.9 (add refer	ences to 108.5.3.	2)	Proposed Resp
45.2.1.103 (add reference to 2	108.6.6)			
45.2.1.104 (add reference to 7				C/ <b>069</b> Se Dudek, Mike
SuggestedRemedy	wass from the base of	looumont		Comment Type
Bring in the referenced subcla Change "(see 91.5.3.3)" to "(s			r it appears in these	The referer with what is
subclauses.				SuggestedRem
In 45.2.1.102.1 (PCS align sta "When read as a one, bit 1.20		e RS-FEC descri	bed in Clause 91 has	Either Dele to item h)
locked and aligned all transmi the RS-FEC has not locked a	it PCS lanes. When re	ead as a zero, bit		Proposed Resp
to "This bit indicates the PCS ali Clause 91, PCS alignment is				C/ 069 So Dawe, Piers
all 20 transmit PCS lanes. For defined as block lock of the tra	r the RS-FEC describ ansmit PCS signal. W	ed in Clause 108 Vhen read as a ze	, PCS alignment is ero, this bit indicates	Comment Type Looks unfir
that the RS-FEC has not obta that the RS-FEC has obtained		when read as on	ie, this dit indicates	SuggestedRem
In 45.2.1.102.2 (RS-FEC aligr				In Figure 69 1.
"When read as a one, bit 1.20 locked and aligned all receive that the RS-FEC has not lock	RS-FEC lanes. Whe	n readas a zero, l	bit 1.201.14 indicates	Proposed Resp

"This bit indicates the PMA alignment status of the RS-FEC. For the RS-FEC described in Clause 91, PMA alignment is defined as alignment marker lock and deskew of all four lanes on the PMA service interface. For the RS-FEC described in Clause 108, PMA

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

nent is defined as codeword marker lock on the PMA service interface. When read as o, this bit indicates that the RS-FEC has not obtained PMA alignment. When read as this bit indicates that the RS-FEC has obtained PMA alignment."

Response Response Status **O** 

<i>Cl</i> <b>045</b> Anslow, Pe	SC 45.2.1.95	P <b>4</b> 2 Ciena	-	L <b>42</b>	# 18	
<i>Comment</i> Spuric	51	Comment Status	x			
S <i>uggestec</i> Delete	dRemedy the spurious "\"					
Proposed	Response	Response Status	0			
<i>Cl</i> <b>069</b> Dudek, Mil	SC <b>69.1</b> ke	P 50 QLogi	-	L 51	# 73	
	eferencing of both	Comment Status chip to chip and chip G and 100G where o	o to m			t

dRemedy Delete Annex 109B or add Annexes 83B and Annex 83E to item g) and Annex 83B

Response Response Status **O** 

C/ 069 SC 69.1.2 Dawe, Piers	P <b>50</b> Mellanox	L 14	# 131
Comment Type <b>E</b> Looks unfinished.	Comment Status X		

dRemedy

ure 69-1, make the stack wider so 25GBASE-R PCS fits on one line, like Figure 105-

Response Response Status 0

C/ 069	Page 3 of 30
SC 69.1.2	2015-02-23 3:51:18 PM

C/ 069 SC 69.1.2		L 16	# 72	CI 073 SC 73.6.4	P <b>54</b>	L 31	# 42
Dudek, Mike	QLogic			Marris, Arthur	Cadence		
Comment Type TR	Comment Status X			Comment Type T	Comment Status X		
	a lower latency backplane option or no FEC as alternates.	n the RS-FEC sho	ould be made optional	25GBASE-CR techno	t the time draft 0.1 was create plogy abilities. If a base-line pr b be updated accordingly.		
SuggestedRemedy					o be updated accordingly.		
Under the diagram s BASE-R FORWARE	a block from "RS-FEC" to "FEC say FEC=REED-SOLOMON FC RD ERROR CORRECTION. A	RWARD ERROR Iso in Table 69-1	R CORRECTION or a Change RS-FEC to	SuggestedRemedy Update Clause 73 to adopted at this meeti	describe FEC negotiation for a	25GBASE-CR if a	a baseline for this is
	extra column of Clause 74 FEC clause 74 as optional and chang			Proposed Response	Response Status O		
Proposed Response	Response Status <b>O</b>	-					
				C/ 074 SC 74.5.1a	P <b>63</b>	L <b>5</b>	# 39
C/ 069 SC 69.1.2	P 50	L 25	# 2	Nowell, Mark	Cisco		
Booth, Brad	Microsoft	L 23	π Ζ	Comment Type E	Comment Status X		
Comment Type E	Comment Status D			Typo in using the wor	d "encoder" instead of "decoo	ler" on lines 5 & 6	6.
51				SuggestedRemedy			
Definition of 25G-MI							
Definition of 25G-MI	in not consistent.			Modify two sentences	8:		
SuggestedRemedy	as 25 Gigabit, not 25 Gb/s. Use	25 Gigabit.		Modify two sentences From: When rx_mode is QI	s: JIET, the FEC encoder logic r en rx_mode is DATA, the FE(		
SuggestedRemedy 25G-MII is defined a		-		Modify two sentences From: When rx_mode is QU conserve energy. Wh	JIET, the FEC encoder logic r		
SuggestedRemedy 25G-MII is defined a Replicated in all the	as 25 Gigabit, not 25 Gb/s. Use	-		Modify two sentences From: When rx_mode is QU conserve energy. Wh To: When rx_mode is QU	JIET, the FEC encoder logic r	C encoder logic o may deactivate fu	pperates normally.
SuggestedRemedy 25G-MII is defined a Replicated in all the Proposed Response Cl 069 SC 69.1.2	as 25 Gigabit, not 25 Gb/s. Use layer diagrams throughout the <i>Response Status</i> <b>O</b>	-	# <u>21</u>	Modify two sentences From: When rx_mode is QU conserve energy. Wh To: When rx_mode is QU	JIET, the FEC encoder logic r en rx_mode is DATA, the FE( JIET, the FEC decoder logic r	C encoder logic o may deactivate fu	pperates normally.
SuggestedRemedy 25G-MII is defined a Replicated in all the Proposed Response Cl 069 SC 69.1.2 Baden, Eric	as 25 Gigabit, not 25 Gb/s. Use layer diagrams throughout the <i>Response Status</i> <b>O</b>	draft.	# 21	Modify two sentences From: When rx_mode is QU conserve energy. Wh To: When rx_mode is QU conserve energy. Wh	JIET, the FEC encoder logic r en rx_mode is DATA, the FEC JIET, the FEC decoder logic r en rx_mode is DATA, the FEC	C encoder logic o may deactivate fu	operates normally. Inctional blocks to operates normally.
SuggestedRemedy 25G-MII is defined a Replicated in all the Proposed Response Cl 069 SC 69.1.2 Baden, Eric Comment Type E	as 25 Gigabit, not 25 Gb/s. Use layer diagrams throughout the or <i>Response Status</i> <b>O</b> <i>P</i> <b>50</b> Broadcom	draft.		Modify two sentences From: When rx_mode is QU conserve energy. Wh To: When rx_mode is QU conserve energy. Wh Proposed Response	JIET, the FEC encoder logic r len rx_mode is DATA, the FEC JIET, the FEC decoder logic r len rx_mode is DATA, the FEC <i>Response Status</i> <b>O</b>	C encoder logic o nay deactivate fu C decoder logic o	pperates normally.
SuggestedRemedy 25G-MII is defined a Replicated in all the Proposed Response C/ 069 SC 69.1.2 Baden, Eric Comment Type E Should the lettered	as 25 Gigabit, not 25 Gb/s. Use e layer diagrams throughout the <i>Response Status</i> <b>O</b> e <i>P</i> <b>50</b> Broadcom <i>Comment Status</i> <b>X</b>	draft.		Modify two sentences From: When rx_mode is QL conserve energy. When To: When rx_mode is QL conserve energy. When Proposed Response CI 074 SC 74.6 Nowell, Mark Comment Type E	UIET, the FEC encoder logic r ten rx_mode is DATA, the FEC UIET, the FEC decoder logic r ten rx_mode is DATA, the FEC <i>Response Status</i> <b>O</b> <i>P</i> 63 Cisco <i>Comment Status</i> <b>X</b>	C encoder logic o nay deactivate fu C decoder logic o <i>L</i> <b>30</b>	pperates normally. unctional blocks to pperates normally. # 40
SuggestedRemedy 25G-MII is defined a Replicated in all the Proposed Response Cl 069 SC 69.1.2 Baden, Eric Comment Type E Should the lettered SuggestedRemedy	as 25 Gigabit, not 25 Gb/s. Use e layer diagrams throughout the <i>Response Status</i> <b>O</b> e <i>P</i> <b>50</b> Broadcom <i>Comment Status</i> <b>X</b>	draft.		Modify two sentences From: When rx_mode is QL conserve energy. When To: When rx_mode is QL conserve energy. Whe Proposed Response C/ 074 SC 74.6 Nowell, Mark Comment Type E Typo. Change B0T to	UIET, the FEC encoder logic r ten rx_mode is DATA, the FEC UIET, the FEC decoder logic r ten rx_mode is DATA, the FEC <i>Response Status</i> <b>0</b> <i>P</i> 63 Cisco	C encoder logic o nay deactivate fu C decoder logic o <i>L</i> <b>30</b>	pperates normally. unctional blocks to pperates normally. # 40
SuggestedRemedy 25G-MII is defined a Replicated in all the Proposed Response Cl 069 SC 69.1.2 Baden, Eric Comment Type E Should the lettered SuggestedRemedy	as 25 Gigabit, not 25 Gb/s. Use e layer diagrams throughout the o <i>Response Status</i> <b>O</b> e <i>P</i> <b>50</b> Broadcom <i>Comment Status</i> <b>X</b> list after 69-2 include 4-octet wid	draft.		Modify two sentences From: When rx_mode is QL conserve energy. When To: When rx_mode is QL conserve energy. When Proposed Response CI 074 SC 74.6 Nowell, Mark Comment Type E	JIET, the FEC encoder logic r ten rx_mode is DATA, the FEC JIET, the FEC decoder logic r ten rx_mode is DATA, the FEC <i>Response Status</i> <b>O</b> <i>P</i> 63 <i>Cisco</i> <i>Comment Status</i> <b>X</b> o BT in text "shall be no mo	C encoder logic o nay deactivate fu C decoder logic o <i>L</i> <b>30</b>	pperates normally. unctional blocks to pperates normally. # 40
SuggestedRemedy 25G-MII is defined a Replicated in all the Proposed Response Cl 069 SC 69.1.2 Baden, Eric Comment Type E	as 25 Gigabit, not 25 Gb/s. Use e layer diagrams throughout the o <i>Response Status</i> <b>O</b> e <i>P</i> <b>50</b> Broadcom <i>Comment Status</i> <b>X</b> list after 69-2 include 4-octet wid	draft.		Modify two sentences From: When rx_mode is QU conserve energy. When To: When rx_mode is QU conserve energy. When Proposed Response CI 074 SC 74.6 Nowell, Mark Comment Type E Typo. Change B0T to SuggestedRemedy Change:	JIET, the FEC encoder logic r ten rx_mode is DATA, the FEC JIET, the FEC decoder logic r ten rx_mode is DATA, the FEC <i>Response Status</i> <b>O</b> <i>P</i> 63 Cisco <i>Comment Status</i> <b>X</b> o BT in text "shall be no mod an 6144 B0T	C encoder logic o nay deactivate fu C decoder logic o <i>L</i> <b>30</b>	pperates normally. unctional blocks to pperates normally. # 40

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/generalC/074Page 4 of 30COMMENT STATUS: D/dispatched A/accepted R/rejectedRESPONSE STATUS: O/open W/written C/closed Z/withdrawnSC74.62015-02-23 3:51:19 PMSORT ORDER: Clause, Subclause, page, line

C/ 074 SC 74.6	P 83	L <b>30</b>	# 22	C/ 093A SC 93A.1	P 205	L 18	# 136
Baden, Eric	Broadcom			Dawe, Piers	Mellanox		
Comment Type E	Comment Status X			Comment Type E	Comment Status X		for all and an allow to
change B0T to BT					ing, we should put the entrie ower (which is usually short		
SuggestedRemedy				25GBASE-CR there sho	uld be one for 100GBASE-0		
Replace the letters ' B01	' with ' BT '			"CAUI-4" is ambiguous. There are really three co	lumps here		
Proposed Response	Response Status 0			SuggestedRemedy			
				3 columns:			
C/ 078 SC 78.1.4	P 72	L <b>21</b>	# 132	25GBASE-KR (CI	ause 111) Table 93–8		
Dawe, Piers	Mellanox			(	ause 110) Table 110–8 nnex 83D) Table 83D–6		
Comment Type E	Comment Status X				Clause 93) Table 93–8		
	order (slow to fast, short to lo	ong or).			Clause 94) Table94–17		
SuggestedRemedy				`	Clause 92) Table 93–8		
Put all the new entries b Move 25G-AUI to above				Proposed Response	Response Status <b>O</b>		
Proposed Response	Response Status 0			C/ 093A SC 93A.1	P 205	L <b>20</b>	# 66
				Dudek, Mike	QLogic		
C/ 078 SC 78.1.4	P <b>72</b>	L 26	# 74	Comment Type T	Comment Status X		
Dudek, Mike	QLogic	2 20		25G-AUI (chip to chip) is	missing from Table 93A-2		
Comment Type T	Comment Status X			SuggestedRemedy			
51	cluded for CAUI-4 in Table 7	8-1. (Due I belie	eve to the optical	Add 25G-AUI C2C (Ann	ex 109A) Table 83D-6		
	ble of deep sleep mode). It i			Proposed Response	Response Status <b>O</b>		
included in the table.							
						L 40	# 92
SuggestedRemedy	dd 83E to the CAUI-4 row.			C/ 105 SC 105.1	P <b>81</b>	L 40	11 JE
SuggestedRemedy Delete Annex 109B or a	dd 83E to the CAUI-4 row. <i>Response Status</i> <b>0</b>			C/ <b>105</b> SC <b>105.1</b> Brown, Matthew	<i>Р</i> <b>81</b> АРМ	L <b>40</b>	11 <u>32</u>
SuggestedRemedy Delete Annex 109B or a				Brown, Matthew Comment Type <b>T</b>	APM Comment Status X	-	-
SuggestedRemedy Delete Annex 109B or a				Brown, Matthew Comment Type <b>T</b>	APM	-	-
SuggestedRemedy Delete Annex 109B or a				Brown, Matthew Comment Type <b>T</b>	APM Comment Status X	-	-
SuggestedRemedy				Brown, Matthew <i>Comment Type</i> <b>T</b> In Table 105-2, specify " <i>SuggestedRemedy</i>	APM Comment Status X	r 25GBASE-CR.	

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 SC
 105.1
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Cl 105 SC 105.1.1 Lusted, Kent	P <b>79</b> Intel	L 14	# 121	<i>Cl</i> <b>105</b> Dawe, Pier	SC <b>105.4</b> s	P <b>83</b> Mellanox	L <b>7</b>	# 137
	Comment Status X of frame loss ratio (see 1.4.223) as frame loss ratio as 1.4.222.		p0_SECTION1.pdf, pg	should If there be exp	are nearly 7 pag be the same as are more than licity identified a	Comment Status X les of service interface specif 40 and 100G. the natural differences becau nyway, rather than leaving th this is an editorial comment.	se 25GBASE-R	is serial, they should
SuggestedRemedy Update to 1.4.222 if r Proposed Response	necessary. Response Status <b>O</b>			Suggested Remov Say tha for 400	Remedy re everything in at the service in BBASE-R, 100G	105.4 except the figures and terface specification for 25GE BASE-R, and 100GBASE-P	BASE-R Physica Physical Layers	I Layers is the same as , as in 80.3, except
	P 81 Mellanox Tec Comment Status X s that 25G-MII (clause 106) is I 25G-MII should be optional.	-	# 111 GBASE-CR, 25GBASE-	IS_UN and IS	ITDATA_i.reque _UNITDATA.inc are feeling very	ch direction (n = 1). Therefor ist and IS_UNITDATA_i.indic lication for 25GBASE-R. conscientious, mention 25GB <i>Response Status</i> <b>0</b>	ation are called	IS_UNITDATA.request
SuggestedRemedy Chnage the table to i	indicate that 25G-MII is Optional	al for 25GBASE-	CR, 25GBASE-KR,	<i>Cl</i> <b>105</b> Baden, Erio	SC 105.4.1	P 83 Broadcom	L <b>30</b>	# 23
25GBASE-SR. Proposed Response	Response Status 0			Suggested	ould be 'some' ? <i>Remedy</i> e the text ' so ' w			
				Cl <b>105</b> Dudek, Mik Comment typo Suggested replace	Туре Е	P 83 QLogic Comment Status X	L <b>30</b>	# 75
				Proposed I		Response Status <b>O</b>		

C/ 105 SC 105.4.1

C/ 105 SC 105.4. Lusted, Kent	1 P 83 Intel	L <b>30</b>	# 122	C/ 105 SC 105.7 Baden, Eric	P <b>92</b> Broadcom	L <b>1</b>	# 24
Comment Type E typo. the interface in	Comment Status X ncludes some or all			Comment Type E Page is blank.	Comment Status X		
inter-sublayer servic	ter-sublayer service interface inderesting the service interface includes some or all		" to "change "then the	SuggestedRemedy Delete page 92 Proposed Response	Response Status <b>O</b>		
Proposed Response Cl 105 SC 105.4.2 Nowell, Mark	2 P 85 Cisco	<i>L</i> 1	# 41	<i>Cl</i> <b>105</b> SC <b>4.3.2.2</b> Nicholl, Gary	P 87 Cisco Systems	L <b>36</b>	# 119
Comment Type E	Comment Status X 3 on pages 85 &86 are inconsist	ent in teh labelin	g of the FEC sublayer.	Comment Type E I think the word 'trasm bit strea"	Comment Status X nits' is missing in the follwoing s	entance " The	sublayer continuously a
Fig 105-2 labels it F Fig 105-3 labels it F	EC EC or RS-FEC (with a note 1)			•	blayer continuously transmits a	bit stream"	
Since we are calling SuggestedRemedy	these seperate sublayers I sug	gest being consi	stent with Fig 105-3	Proposed Response	Response Status <b>O</b>		
	sistent. Suggest using Fig 105-	3 format for both	and also adding note	C/ 105 SC Figure	105-2 P 85	L 16	# 124
Proposed Response	Response Status <b>O</b>			Comment Type T	Comment Status X	nterface can be	e optional or omitted
C/ <b>105</b> SC <b>105.5</b> Cober, Don	P <b>90</b> CoMIRA Solu	L 47 Itions Inc	# 114	depending on the phy			
Comment Type ER The delay for 25GB/ match delay in 108.4	Comment Status X ASE-R RS-FEC in Sublayer Del 4.	ay Constraints T	able 105-3 does not		with appropriate note, such as '		TIONAL OR OMITTED
SuggestedRemedy Change 5th row to:					Y TYPE", and mark FEC block block to be "FEC or RS-FEC"	appropriately.	
25GBASE-R RS-FE	C   24576   48   983.04   See 10	08.4.		Proposed Response	Response Status <b>O</b>		
or appropriate to ma	atch Clause 108.4						
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: Clause, Subclause, page, line

C/ 105 SC Figure 105-2 Page 7 of 30 2015-02-23 3:51:19 PM

C/ 106 SC 1	P 93	L 6	# 117	C/ 106 SC 106.1.4	P <b>94</b>	L 37	# 94
Nicholl, Gary	Cisco System	s		Brown, Matthew	APM		
Comment Type E	Comment Status X			Comment Type E	Comment Status X		
	entioning that Clause 106 is ba			The definitions of bit time	e and pause_quanta are be	ing references.	
statement that is simil on page 99.	lar to the one included in section	uon that is inclu	ded in section 107.1.2	SuggestedRemedy			
SuggestedRemedy				Change "specified" to "d	efined" twice.		
	tatement along the lines of " T e 10Gigabit Reconciliation Sul			Proposed Response	Response Status O		
Proposed Response	Response Status O			C/ 106 SC 106.1.7.1	P 95	L 30	# 95
				Brown, Matthew	APM		
Cl 106 SC 106 Booth, Brad	P 93 Microsoft	L 1	# 3	<i>Comment Type</i> <b>E</b> XGMII is not mapped, th	Comment Status X le signals are.		
Comment Type T	Comment Status D			SuggestedRemedy			
Clause 106 appears to	become very inconsistent wit o follow the conventions used ical because it relates to defini	in 802.3ba, whic		Change "in the same wa To "in the same way as f			
Clause 106 appears to the definitions. Techni SuggestedRemedy	o follow the conventions used ical because it relates to defini	in 802.3ba, whic			for XGMII"		
Clause 106 appears to the definitions. Techni SuggestedRemedy Change title of clause	o follow the conventions used ical because it relates to defini	in 802.3ba, whic tions.	h is inconsistent with	To "in the same way as the change in the following l	for XGMII"		
Clause 106 appears to the definitions. Techni SuggestedRemedy Change title of clause Reconciliation Sublaye	o follow the conventions used ical because it relates to defini to read:	in 802.3ba, whic tions.	h is inconsistent with	To "in the same way as f Change in the following l page 95, lines 30, 35, 51	for XGMII" locations: I		
Clause 106 appears to the definitions. Techni SuggestedRemedy Change title of clause Reconciliation Sublaye	o follow the conventions used ical because it relates to defini to read: er (RS) and 25 Gigabit Media	in 802.3ba, whic tions.	h is inconsistent with	To "in the same way as f Change in the following l page 95, lines 30, 35, 51	for XGMII" locations: I	L 39	# 96
Clause 106 appears to the definitions. Techni SuggestedRemedy Change title of clause Reconciliation Sublaye Proposed Response	o follow the conventions used ical because it relates to defini to read: er (RS) and 25 Gigabit Media	in 802.3ba, whic tions.	h is inconsistent with erface (25G-MII)	To "in the same way as f Change in the following I page 95, lines 30, 35, 51 Proposed Response	for XGMII" locations: I Response Status <b>O</b>	L 39	# 96
Clause 106 appears to the definitions. Techni SuggestedRemedy Change title of clause Reconciliation Sublaye Proposed Response	o follow the conventions used ical because it relates to defini to read: er (RS) and 25 Gigabit Media <i>Response Status</i> <b>O</b>	in 802.3ba, whic tions. Independent Inte	h is inconsistent with	To "in the same way as the Change in the following I page 95, lines 30, 35, 51 Proposed Response	for XGMII" locations: Response Status O P 95	L 39	# <u>96</u>
Clause 106 appears to the definitions. Techni SuggestedRemedy Change title of clause Reconciliation Sublaye Proposed Response Cl 106 SC 106.1.2 Brown, Matthew Comment Type E	o follow the conventions used ical because it relates to defini et o read: er (RS) and 25 Gigabit Media <i>Response Status</i> <b>O</b> <i>P</i> <b>94</b> APM <i>Comment Status</i> <b>X</b>	in 802.3ba, whic tions. Independent Inte	h is inconsistent with erface (25G-MII)	To "in the same way as the Change in the following I page 95, lines 30, 35, 51 Proposed Response CI 106 SC 106.1.7.3 Brown, Matthew Comment Type E	for XGMII" locations: <i>Response Status</i> <b>O</b> <i>P</i> <b>95</b> APM		
Clause 106 appears to the definitions. Techni SuggestedRemedy Change title of clause Reconciliation Sublaye Proposed Response Cl 106 SC 106.1.2 Brown, Matthew Comment Type E MAC has been used p	o follow the conventions used ical because it relates to defini et o read: er (RS) and 25 Gigabit Media <i>Response Status</i> <b>O</b> <i>P</i> <b>94</b> APM	in 802.3ba, whic tions. Independent Inte	h is inconsistent with erface (25G-MII)	To "in the same way as the Change in the following I page 95, lines 30, 35, 51 Proposed Response Cl 106 SC 106.1.7.3 Brown, Matthew Comment Type E Include the name of the subclauses. SuggestedRemedy	for XGMII" locations: Response Status O P 95 APM Comment Status X		
Clause 106 appears to the definitions. Techni SuggestedRemedy Change title of clause Reconciliation Sublaye Proposed Response Cl 106 SC 106.1.2 Brown, Matthew Comment Type E MAC has been used p SuggestedRemedy	o follow the conventions used ical because it relates to defini et o read: er (RS) and 25 Gigabit Media <i>Response Status</i> <b>O</b> <i>P</i> <b>94</b> APM <i>Comment Status</i> <b>X</b>	in 802.3ba, whic tions. Independent Inte	h is inconsistent with erface (25G-MII)	To "in the same way as the Change in the following I page 95, lines 30, 35, 51 Proposed Response Cl 106 SC 106.1.7.3 Brown, Matthew Comment Type E Include the name of the subclauses.	for XGMII" locations: <i>Response Status</i> <b>O</b> <i>P</i> <b>95</b> APM <i>Comment Status</i> <b>X</b> primitive in the paragraph to		
Clause 106 appears to the definitions. Techni SuggestedRemedy Change title of clause Reconciliation Sublaye Proposed Response Cl 106 SC 106.1.2 Brown, Matthew Comment Type E MAC has been used p SuggestedRemedy	o follow the conventions used ical because it relates to defini to read: er (RS) and 25 Gigabit Media <i>Response Status</i> <b>O</b> <i>P</i> <b>94</b> <i>APM</i> <i>Comment Status</i> <b>X</b> previously in the clause.	in 802.3ba, whic tions. Independent Inte	h is inconsistent with erface (25G-MII)	To "in the same way as the Change in the following I page 95, lines 30, 35, 51 Proposed Response CI 106 SC 106.1.7.3 Brown, Matthew Comment Type E Include the name of the subclauses. SuggestedRemedy Change "this primitive"	for XGMII" locations: <i>Response Status</i> <b>O</b> <i>P</i> <b>95</b> APM <i>Comment Status</i> <b>X</b> primitive in the paragraph to indication primitive" ne 46		

C/ 106 SC 106.1.7.3 Page 8 of 30 2015-02-23 3:51:19 PM

Cl 106 SC 106.4 Booth, Brad	P <b>96</b> Microsoft	L 13	# 4	C/ 107 Ran, Adee	SC 107.1.2	P <b>99</b> Intel	L <b>22</b>	# 13
Comment Type E	Comment Status D			Comment T	Туре Т	Comment Status X		
Inconsistent use of 25	Gb/s and 25Gb/s.					n is required to differentiate		
SuggestedRemedy Search draft and replac	e 25Gb/s with 25 Gb/s.					S-FEC requires a higher th two uncorrectable codewo		R monitor, to prevent
Proposed Response	Response Status <b>O</b>			Further	r details to be pr	resented.		
, ,	•			Suggested	Remedy			
C/ 107 SC 107.1.2	P 99	L 20	# 26		onitor for clause of 2 millisecon	e 107 should assert hi_ber v ds.	when ber_cnt>=97	with an observation
Baden, Eric	Broadcom			Editoria	al license provid	ed to implement in the mos	t readable way.	
Comment Type E Why is the PMA interfa	Comment Status X ce one bit wide instead of 16	bits wide like ir	CL49?	Proposed F	Response	Response Status 0		
SuggestedRemedy Perhaps add more info	rmation as to why this interfa	ce is different?		C/ 107	SC 107.1.2	P 99	L <b>22</b>	# 97
Proposed Response	Response Status 0			Brown, Mat	tthew	APM		
				Comment 7		Comment Status X		
C/ 107 SC 107.1.2	P 99	L 22	# 25	Include	e scrambled idle	s test pattern generation ar	nd checker in PCS	
Baden, Eric	Broadcom	L 22	# 25			est pattern generation is req GBASE-KR PMDs.	uired for PMD trar	nsmitter testing for
Comment Type TR Is detection of scramble	Comment Status X ed IDLE required, or only ger	neration?		A gene instanti		er is required for testing of	an entire PHY with	n a 25G-AUI
SuggestedRemedy				Suggested	Remedy			
Only scrambled IDLE g	eneration is required. Remo	ve the requirem	ent for a scrambled	Remov	e editor's note.			
Proposed Response	Response Status 0			Proposed F	Response	Response Status 0		
				<i>Cl</i> <b>107</b> Dudek, Mik	SC 107.1.2	<i>P</i> <b>99</b> QLogic	L <b>24</b>	# 43
						c		
						Comment Status X a useful pattern that should	be retained and g	enerating it in the PCS
				Suggested Delete	<i>Remedy</i> the editor's note	9.		
				Proposed F		Response Status O		
TVPE: TR/technical require	d ER/editorial required GR/	apperal require	t T/tochnical E/aditorial G/	·	response	Response Status 0	107	Page 9 of

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/generalC/107Page 9 of 30COMMENT STATUS: D/dispatched A/accepted R/rejectedRESPONSE STATUS: O/open W/written C/closed Z/withdrawnSC 107.1.22015-02-23 3:51:19 PMSORT ORDER: Clause, Subclause, page, lineSC107SC 107.1.22015-02-23 3:51:19 PM

C/ 107 SC 107.1.3 Dudek, Mike	<i>P</i> <b>100</b> QLogic	L 18	# 44	C/         107         SC         107.1.4.1         P 101           Brown, Matthew         APM	L <b>7</b>	# 100
Comment Type E Footnotes should be si	Comment Status X superscript both on FEC and A	N		Comment Type E Comment Status X PCS Interface should be PCS service interface		
SuggestedRemedy Make them superscript	·t.			SuggestedRemedy Change "PCS Interface" to "PCS service interface	9".	
Proposed Response	Response Status O			Proposed Response Response Status O		
C/ 107 SC 107.1.3 Brown, Matthew	<i>Р</i> <b>100</b> АРМ	L <b>31</b>	# 98	C/         107         SC         107.2         P 101           Brown, Matthew         APM	L 17	# 101
Comment Type E Need consistent notes	Comment Status X s for FEC and AN amongst all	of the layer diag	ırams.	Comment Type E Comment Status X The heading "107.2 Physical Coding Sublayer (PC		
				clause is exactly that Also there is only one subc	clause under 107 2	
	EC and AN, with the same tex	xt as in Figure 10	05-1.	clause is exactly that. Also, there is only one subo SuggestedRemedy Remove the heading 107.2 and promote 107.2.1		
Use one not for both F "CONDITIONAL BASE		Ū		SuggestedRemedy		
Use one not for both F "CONDITIONAL BASE Also, in Figure 105-1, u	ED ON PHY TYPE"	Ū		SuggestedRemedy Remove the heading 107.2 and promote 107.2.1 Proposed Response Response Status <b>O</b>		5. 
Use one not for both F "CONDITIONAL BASE Also, in Figure 105-1, o Proposed Response	ED ON PHY TYPE" use a single note since both n <i>Response Status</i> <b>O</b>	otes have the sa	ame text.	SuggestedRemedy Remove the heading 107.2 and promote 107.2.1		
Use one not for both F "CONDITIONAL BASE Also, in Figure 105-1, u Proposed Response Cl 107 SC 107.1.4	ED ON PHY TYPE" use a single note since both n	Ū		SuggestedRemedy         Remove the heading 107.2 and promote 107.2.1         Proposed Response       Response Status         Cl       107       SC 107.2.1         Prown, Matthew       APM         Comment Type       T       Comment Status	and its subclauses	s. # <u>102</u>
Use one not for both F "CONDITIONAL BASE Also, in Figure 105-1, of Proposed Response CI 107 SC 107.1.4 Brown, Matthew Comment Type E	ED ON PHY TYPE" use a single note since both n <i>Response Status</i> <b>O</b> <i>P</i> <b>100</b> APM <i>Comment Status</i> <b>X</b>	otes have the sa	ame text. # <u>99</u>	SuggestedRemedy         Remove the heading 107.2 and promote 107.2.1         Proposed Response       Response Status         Cl       107       SC 107.2.1         Prown, Matthew       APM	and its subclauses	s. # <u>102</u> s.
Use one not for both F "CONDITIONAL BASE Also, in Figure 105-1, of Proposed Response Cl 107 SC 107.1.4 Brown, Matthew Comment Type E	ED ON PHY TYPE" use a single note since both n <i>Response Status</i> <b>O</b> <i>P</i> <b>100</b> APM	otes have the sa	ame text. # <u>99</u>	SuggestedRemedy         Remove the heading 107.2 and promote 107.2.1         Proposed Response       Response Status         Cl       107       SC 107.2.1         P101       Brown, Matthew       APM         Comment Type       T       Comment Status       X         The functionality in Clause 49 and 82.2.11 are model       Comment Status       X	and its subclauses	s. # <u>102</u> s.
Use one not for both F "CONDITIONAL BASE Also, in Figure 105-1, u Proposed Response Cl 107 SC 107.1.4 Brown, Matthew Comment Type E The use of Gtransfers	ED ON PHY TYPE" use a single note since both n <i>Response Status</i> <b>O</b> <i>P</i> <b>100</b> APM <i>Comment Status</i> <b>X</b> was due to the inteface being	otes have the sa	ame text. # <u>99</u>	SuggestedRemedy         Remove the heading 107.2 and promote 107.2.1         Proposed Response       Response Status         O         Cl 107       SC 107.2.1         P 101         Brown, Matthew       APM         Comment Type       T         Comment Type       T         Comment Type       T         Comment Status       X         The functionality in Clause 49 and 82.2.11 are modeled and status         Also, the first reference to PCS is specifically the         SuggestedRemedy         Change "The PCS supports" to "The 25GBASE-R         Change "defined" to "specified" in the following low	and its subclauses	s. # <u>102</u> s.
"CONDITIONAL BASE Also, in Figure 105-1, u Proposed Response Cl 107 SC 107.1.4 Brown, Matthew Comment Type E The use of Gtransfers SuggestedRemedy	ED ON PHY TYPE" use a single note since both n <i>Response Status</i> <b>O</b> <i>P</i> <b>100</b> APM <i>Comment Status</i> <b>X</b> was due to the inteface being	otes have the sa	ame text. # <u>99</u>	SuggestedRemedy         Remove the heading 107.2 and promote 107.2.1         Proposed Response       Response Status         O         Cl 107       SC 107.2.1         P 101         Brown, Matthew       APM         Comment Type       T         Comment Type       T         Comment Type       T         Also, the first reference to PCS is specifically the         SuggestedRemedy         Change "The PCS supports" to "The 25GBASE-R	and its subclauses	s. # <u>102</u> s.

C/ 107 SC 107.2.1

Cl 107 SC 107.2.1 Baden, Eric	P 101 Broadcom	L <b>22</b>	# <u>2</u> 7	C/ 107 SC 107.4 Brown, Matthew	Р <b>10</b> 4 АРМ	L <b>37</b>	# 76
Comment Type TR Only scrambled IDLE	Comment Status X generation required			Comment Type E There is no need to or most subclauses	Comment Status ) o explicitly call out the the r s have references.		nced subclause. Many
SuggestedRemedy Remove the requirement receiver tests with the	ent for a scrambled IDLE chec FEC enabled.	ker. That function	on would not aid in the	SuggestedRemedy Delete "and its refe	erences" in the following loc	ations:	
Proposed Response	Response Status O			page 104 line 38 page 109 line 14 page 171 line 30 page 185 line 27			
C/ 107 SC 107.3	P 104	L <b>50</b>	# 120	page 105 line 21			
Lusted, Kent	Intel			Proposed Response	Response Status	)	
Comment Type E	Comment Status X						
This paragraph is one the "shall" statements	sentence and it hard for a read.	der to determine	what is mandated by	C/ <b>107</b> SC <b>2</b> Nicholl, Gary	P 101 Cisco S		# 118
"If the 25GBASE-R PO	CS is part of a PHY configured ode LPI as required, however it	for EEE fast wa	ke operation the PCS	Comment Type E	Comment Status	(	
described in the transu 13 but behave as if in I think that the intent is	mit and receive state diagrams the TX_ACTIVE and RX_ACT s 2-fold:	defined in Figur	e 49-12 and Figure 49-	so I am not sure Fi	entially referencing Clause of gure 107-2 and Figure 107 f the other Figures in Claus	-3 are special and cop	pied directly into Clause
	or EEE FW shall encode and d or EEE FW shall behave as if i			SuggestedRemedy			
states when in the FW					ng Figure 107-2 and Figure the rest of the detailed info		
SuggestedRemedy				Proposed Response	Response Status	)	
I don't have a good ex	ample. sorry.						
Proposed Response	Response Status <b>O</b>			C/ 107 SC Figur Lusted, Kent	re 107-1 P 100 Intel	L 17	# 123
				Comment Type E the 1 in FEC1 shou	Comment Status ) Ild be a superscript.	C	
				same with the 2 in	AN2		
				SuggestedRemedy Consider changing	the 1 in AN1 and 2 in AN2	to be superscript.	
				Proposed Response	Response Status	)	
•	red ER/editorial required GR/g ispatched A/accepted R/rejec subclause, page, line			8		C/ 107 SC Figure 107-1	Page 11 of 30 2015-02-23 3:51:1

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<ul> <li>tan, Ade Intel</li> <li>tan Ade Intel</li> <li>comment Type T Comment Status X</li> <li>The current text in subclause 108.2 makes the RS-FEC output undefined when SIGNAL_OK is FAIL. The CS is the either of the RS-FEC and FEC. IS_SIGNAL.indication is available to it. However, if 25G-AUI separates the RS-FEC and the PCS, then the SIGNAL_OK might not be available to the PCS.</li> <li>We need to guarantee that the PCS identifies this condition, so that upper layers can be informed and AN restarted when the lis interrupted. This could be achieved with pervasive management, but a solution that does not involve management is preferable.</li> <li>In order to guarantee that "multiple blocks are marked as bad" and cause hi_ber that will restart AN (as suggested in 108.5.3.3), it is required that the RS-FEC output be well-defined with blocks marked as bad even after codeword marker lock is lost (restart_lock is set to true and SIGNAL_OK is FAIL. [FEC_align_status is false and codewords are uncorrectable). The Reed-Solomon decoder (108.5.3.2), it is required that the RS-FEC output be well-defined with blocks marker with sinderrupted headers when SIGNAL_OK is FAIL. [FEC_align_status is false and codewords are uncorrectable). The Reed-Solomon decoder (108.5.3.2), it is required that the netword prequirement is to continue passing its output to the service interface.</li> </ul>									
comment Type       T       Comment Status X         The current text in subclause 108.2 makes the RS-FEC output undefined when SIGNAL_OK is FAIL. This is the clent of the RS-FEC and the PCS. then the SIGNAL_OK might not be available to the PCS.       We need to guarantee that the PCS identifies this condition, so that upper layers can be prevasive management, but a solution that does not involve management is preferable.       The word "also" is in the wrong place for its intent.         In order to guarantee that "multiple blocks are marked as bad" and cause hi_ber that will redified with blocks marked as bad even after tooks to solution that does not involve management is preferable.       The schewed by continuing to send 64b/66b blocks with corrupted headers when SIGNAL_OK becomes FAIL.         This can be achieved by continuing to send 64b/66b blocks with corrupted headers when SIGNAL_OK becomes FAIL.       The schewed by continuing to send 64b/66b blocks with corrupted headers when SIGNAL_OK becomes FAIL.         SIGNAL_OK DEC 108.3       P109       L4       # 6         Contonent Type       E       Comment Status X         Contonent Type       E       Comment Status X         Contonent Type       E       Comment Status X         Comment Status       N       The contract and the CS identifies this condition, so that upper layers can be chained with the contract of the contract and the contract and the contract and the contract and could can be contract and the contract an	C/ 108	SC 108.2	P 115	L 6	# 127	C/ 108 SC 108.3	P 109	L <b>6</b>	# 77
The current text in subclause 108.2 makes the RS-FEC output undefined when SIGNAL_OK is FAIL. This is fine if the PCS is the client of the RS-FEC and FEC.IS_SIGNAL_Indication is available to it. However, if 25G-AUI separates the RS-FEC and the PCS, then the SIGNAL_OK might not be available to the PCS. We need to guarantee that the PCS identifies this condition, so that upper layers can be informed and AN restarted when the link is incording to sould be achieved with pervasive management, but a solution that does not involve management is preferable. In order to guarantee that "multiple blocks are marked as bad" and cause hi_ber that will restart AN (as suggested in 055.3.3), includes the S-FEC output be well- defined with blocks marked as bad even after codeword marker lock is lost (restart_lock is set to true and SIGNAL_OK becomes FAIL). This can be achieved by continuing to send 64b/66b blocks with corrupted headers when SIGNAL_OK is FAIL (FEC_align_status is false and codewords are uncorrectable). The Reed-Solom decoder (108.5.3.2) includes this behavior already - the only requirement is to continue passing its output to the service interface. <i>uggestedRemedy</i> Delete the sentence "When SIGNAL_OK is FAIL, the rs_bit parameter of the FECIS_UNITDATA.indication primitive is undefined." <i>troposed Response</i> Response Status <b>O</b> // 108 SC 108.3 P 109 L 4 # 6 	an, Adee		Intel			Brown, Matthew	APM		
SIGNAL_OK is FAIL. This is fine if the PCS is the client of the RS-FEC and FEC.S. SMALL. This is fine if the PCS is the client of the RS-FEC and the PCS. then the SIGNAL_OK might not be available to the PCS. We need to guarantee that the PCS identifies this condition, so that upper layers can be informed and AN restarted when the link is insoluble as chiewed with pervasive management, but a solution that does not involve management is preferable. In order to guarantee that "multiple blocks are marked as bad" and cause hi, ber that will restart AN (as suggested in 108.5.3.2), in trequired that the RS-FEC output be well-defined with blocks marked as bad aren after codeword marker lock is lost (restart_lock is set to true and SIGNAL_OK is FAIL, (FEC_align, status is false and codewords are uncorrectable). The Reed-Solomon decoder (108.5.3.2) includes this behavior already - the only requirement is continue passing its output to the service interface. UggestedRemedy Delete the sentence: "When SIGNAL_OK is FAIL, the rx_bit parameter of the FEC:S_UNITDATA.indication primitive is undefined." roposed Response Response Response Status Notation primitive is not required and that fueld the factore of the FEC:S_UNITDATA.indication primitive is not required and could create confusion. uggestedRemedy Delete the sentence: "When SIGNAL_OK is FAIL, the rx_bit parameter of the FEC:S_UNITDATA.indication primitive is undefined." roposed Response Response Status Notation of the Counter Notation Notation of the Set of 40G and 100G. Statement of incompatibility is not required and could create confusion. uggestedRemedy Delete set sentence: "The MA defined in Clause 83 is incompatible with the 25GBASE-R RS-FEC."	omment T	<i>уре</i> <b>т</b>	Comment Status X			Comment Type E	Comment Status X		
FEC:1S_SIGNAL_indication is available to it. However, if 25G-AUI separates the RS-FEC and the PCS, then the SIGNAL_OK might not be available to the PCS.       SuggestedRemedy Either delete "also" or put it at the beginning of the sentence.         We need to guarantee that the PCS identifies this condition, so that upper layers can be informed and AN restarted when the link is interrupted. This could be achieved with pervasive management, but a solution that does not involve management is preferable.       It is interrupted. This could be achieved with pervasive management, but a solution that does not involve management is preferable.       Proposed Response       Response Status       O         In order to guarantee that "multiple blocks are marked as bad" and cause hi ber that will restart AN (as suggested in 108.5.3.2), in its required that the RS-FEC output be well- defined with blocks marked as bad even after codewords are uncorrectable). The Reed-Solom decoder (108.5.3.2) includes this behavior already - the only requirement is to continue passing its output to the service interface.       It is suggested/Remedy Delete the sentence 'When SIGNAL_OK is FAIL, the rx_bit parameter of the FEC.IS_UNITDATA.indicaton primitive is undefined."         1/ 108       SC 108.3       P 109       L4       #         101       Stor 40G and 100G. Statement of incompatibility is not required and could create confusion.       Stor 40G and 100G. Statement of incompatibility is not required and could create confusion.         Uggested/Remedy Delete sentence:       Delete the sentence:       The PMA defined in Clause 83 is incompatibile with the 25GBASE-R RS-FEC." <td></td> <td></td> <td></td> <td></td> <td></td> <td>The word "also" is in t</td> <td>he wrong place for its intent.</td> <td></td> <td></td>						The word "also" is in t	he wrong place for its intent.		
and the PCS, then the SIGNAL_OK might not be available to the PCS.   We need to guarantee that the PCS identifies this condition, so that upper layers can be informed and AN restarted when the link is interrupted. This could be achieved with pervasive management, but a solution that does not involve management is preferable. In order to guarantee that "multiple blocks are marked as bad" and cause hi_ber that will restart AN (as suggested in 108.5.3.3), it is required that the RS-FEC output be well-defined with blocks marked as bad even after codeword marker lock is lost (restart_lock is set to true and SIGNAL_OK becomes FAIL). This can be achieved by continuing to send 64b/66b blocks with corrupted headers when SIGNAL_OK is FAIL, the rx_bit parameter of the FEC:IS_UNITDATA.indication primitive is undefined." <i>PagestedRemedy</i> Delete the sentence: "When SIGNAL_OK is FAIL, the rx_bit parameter of the FEC:IS_UNITDATA.indication primitive is not frequired and could create confusion. <i>Ci</i> 108 SC 108.3 <i>P</i> 109 <i>L</i> 4 <i>E Comment Status</i> X Clause 83 is for 40G and 100G. Statement of incompatibility is not required and could create confusion. <i>Ci</i> 108 SC 108.3 <i>P</i> 109 <i>L</i> 4 <i>E Comment Status</i> X Clause 83 is for 40G and 100G. Statement of incompatibility is not required and could create confusion. <i>Delete sentence: The PMA defined</i> in Clause 83 is incompatible with the 25GBASE-R RS-FEC."						SuggestedRemedy			
We need to guarantee that the PLCS identifies this conductor, so that upper layers can be informed and AN restarted when the link is interrupted. This could be achieved with pervasive management, but a solution that does not involve management is preferable. In order to guarantee that "multiple blocks are marked as bad" and cause hi, ber that will restart AN (as suggested in 108.5.3.3), it is required that the RS-FEC couptub te well- defined with blocks marked as bad even after codeword marker lock is lost (restart_lock is set to true and SIGNAL_OK becomes FAIL). This can be achieved by continuing to send 64b/66b blocks with corrupted headers when SIGNAL_OK is FAIL (FEC_align_status is false and codewords are uncorrectable). The Reed-Solomon decoder (108.5.3.2) includes this behavior already - the only requirement is to continue passing its output to the service interface. <sup>1</sup> <i>toggestedRemedy</i> Delete the sentence: When SIGNAL_OK is FAIL, the rx_bit parameter of the FEC:SL_UNITDATA.Indication primitive is undefined. <sup>2</sup> <sup>2</sup> <i>togsestedResponse</i> Response Status <b>O</b> <sup>2</sup> <sup>1</sup> <b>108</b> SC <b>108.3 P 109</b> L <b>4</b> # <b>6</b> <sup>2</sup> <sup>2</sup> <i>Clause</i> 83 is for 40G and 100G. Statement of incompatibility is not required and could create confusion. <sup>2</sup> <sup>2</sup> <i>WagestedRemedy</i> Delete sentence: "The PMA defined in Clause 83 is incompatible with the 25GBASE-R RS-FEC. <sup>4</sup>						Either delete "also" or	put it at the beginning of the	sentence.	
restar AN [as suggested in 108;5.3.3), it is required that the RS-FEC output be well- defined with blocks marked as bad even after codeword marker lock is lost (restart_lock is set to true and SIGNAL_OK becomes FAIL). This can be achieved by continuing to send 64b/66b blocks with corrupted headers when SIGNAL_OK is FAIL (FEC_align_status is false and codewords are uncorrectable). The Reed-Solomon decoder (108.5.3.2) includes this behavior already - the only requirement is to continue passing its output to the service interface. SuggestedRemedy Delete the sentence "When SIGNAL_OK is FAIL, the rx_bit parameter of the FEC.IS_UNITDATA.indication primitive is undefined." Proposed Response Response Status 0 To 108 SC 108.3 P 109 L 4 # 6 formment Type E Comment Status X Clause 83 is for 40G and 100G. Statement of incompatibility is not required and could create conflusion. SuggestedRemedy Delete sentence: "The PMA defined in Clause 83 is incompatible with the 25GBASE-R RS-FEC."	informe	ed and AN resta	arted when the link is interrupt	ed. This could I	be achieved with	Proposed Response	Response Status <b>O</b>		
SIGNAL_OK is FAIL (FÉC_align_status is false and codewords are uncorrectable). The Reed-Solomon decoder (108.5.3.2) includes this behavior already - the only requirement is to continue passing its output to the service interface.         SuggestedRemedy         Delete the sentence "When SIGNAL_OK is FAIL, the rx_bit parameter of the FEC:IS_UNITDATA.indication primitive is undefined."         Proposed Response       Response Status         O         O/ 108       SC 108.3         P 109       L 4         Clause 83 is for 40G and 100G. Statement of incompatibility is not required and could create confusion.         SuggestedRemedy         Delete sentence:         "The PMA defined in Clause 83 is incompatible with the 25GBASE-R RS-FEC."	restart A defined	AN (as suggest with blocks ma	ted in 108.5.3.3), it is required arked as bad even after codev	that the RS-FE	EC output be well-				
Delete the sentence "When SIGNAL_OK is FAIL, the rx_bit parameter of the FEC:IS_UNITDATA.indication primitive is undefined." Proposed Response Response Status O 20108 SC 108.3 P 109 L 4 # 6 booth, Brad Microsoft Comment Type E Comment Status X Clause 83 is for 40G and 100G. Statement of incompatibility is not required and could create confusion. SuggestedRemedy Delete sentence: "The PMA defined in Clause 83 is incompatible with the 25GBASE-R RS-FEC."	SIGNAL Reed-S	L_OK is FAIL (I Solomon decode	FEC_align_status is false and er (108.5.3.2) includes this be	codewords are	e uncorrectable). The				
FEC:IS_UNITDATA.indication primitive is undefined."         Proposed Response       Response Status         Comment Type       E       Comment Status         Clause 83 is for 40G and 100G. Statement of incompatibility is not required and could create confusion.       Response         SuggestedRemedy       Delete sentence:       "The PMA defined in Clause 83 is incompatible with the 25GBASE-R RS-FEC."	SuggestedF	Remedy							
C/ 108       SC 108.3       P 109       L 4       #         Booth, Brad       Microsoft         Comment Type       E       Comment Status X         Clause 83 is for 40G and 100G. Statement of incompatibility is not required and could create confusion.       Statement of incompatibility is not required and could create confusion.         SuggestedRemedy       Delete sentence:       "The PMA defined in Clause 83 is incompatible with the 25GBASE-R RS-FEC."					eter of the				
Brooth, Brad       Microsoft         Comment Type       E       Comment Status         Clause 83 is for 40G and 100G. Statement of incompatibility is not required and could create confusion.       Statement of incompatibility is not required and could create sentence:         BuggestedRemedy       Delete sentence:       "The PMA defined in Clause 83 is incompatible with the 25GBASE-R RS-FEC."	Proposed R	Response	Response Status O						
Comment Type E Comment Status X Clause 83 is for 40G and 100G. Statement of incompatibility is not required and could create confusion. SuggestedRemedy Delete sentence: "The PMA defined in Clause 83 is incompatible with the 25GBASE-R RS-FEC."	C/ <b>108</b> Booth, Brad			L <b>4</b>	# 6				
Delete sentence: "The PMA defined in Clause 83 is incompatible with the 25GBASE-R RS-FEC."	Comment T Clause	<i>ype</i> <b>E</b> 83 is for 40G a	Comment Status X	patibility is not	required and could				
	Delete s	sentence:	Clause 83 is incompatible with	the 25GBASE	-R RS-FEC."				
			•		-				

CI 108 SC 108.3

Johan Dan	P 109	L 12	# 115	C/ 108	SC 108.4	P 109	L 13	# 113
Cober, Don	CoMIRA Solut	tions Inc		Wertheim,	Oded	Mellanox Te	chnologie	
omment Type T	Comment Status X			Comment 7	ype TR	Comment Status X		
Maximum delay in ns o inversely based on rate		ale based on code	eword length and	unnece In addit	ssary burden o ion the delay i	.04 ns) maximum delay wher on the buffers management. s inconsistent with table 105- 614.4ns (2.5x the Clause 74	3.	
In Clause 74 the delay	/ in UI is shown to scale based	1 on codeword len	gth:	Suggestedl	Remedy			
	of CW , delay = 6144 UI s of CW , delay = 4 x 6144 = 24	4576 UI			e the maximum table 105.3 ac	n delay to 15360 bit time (614 ccordingly.	.4 ns).	
100G = 20 x 2112 bit	ts of CW , delay = 20 x 6144 =	: 122880 UI		Proposed F	Response	Response Status O		
the delay in UI should would expect the max A target delay of 250n: The delay of the FEC I decoding: 1. The codeword accu this value is 5280/1000 2. The decoder time ca tradeoff of area vs late would imply a decoder	FEC is using the same codew be the same : 40960. Since the delay to be $4x-400ns = -1600$ as is very aggressive for 25G. I layer can be broken into two p imulation time is fixed for a giv G = 51.2ns. In 25G this is 528 an vary depending on the hard ency). In 100G the target is 100 r time of 250-204.8=45.2ns. To 5G decoder of the same area	he data rate is 1/4 ons. In 100G the target parts, the CW accuven codeword size 80/25G = 204.8ns dware implementa 0-51.2=48.8ns. A o hit this target an	of Clause 91 we t was 100ns. umulation and the d / datarate. In 100G tition (There is a 25G target of 250ns implementation	Use of clause. <i>Suggestedi</i> In figure	ype         E           a 108-2         CW which is n           CW which is n         CW which is n           Remedy         CW which is n           a all instances         CU which is n	P 110 APM Comment Status X ot defined. Use "codeword" ir	L 14	# <u>79</u> istent with rest of
					lesponse	Response Status <b>O</b>		
uggestedRemedy				C/ 108	SC 108.5.2.	2 P 109	L <b>45</b>	# 78
uggestedRemedy 1. Change line 12 to: shall be no more th 2. Update Table 105-3	nan 40960 bit times (80 pause <u>.</u> 3 to match.	_quanta or 1638.₄	↓ ns)	Brown, Mat <i>Comment 1</i> "period		APM Comment Status X correct word		# [ <u>10</u>
1. Change line 12 to: shall be no more th		_quanta or 1638.₄	4 ns)	Comment 7 "period Suggested	<i>ype</i> <b>E</b> ical" is not the	Comment Status X correct word		# <u>1</u> 0

C/ 108 SC 108.5.2.2

C/ 108 SC 108.5.2.2 Baden, Eric	P 109 Broadcom	L <b>49</b>	# 28	C/ 108 SC 108.5.2.4 Brown, Matthew	<i>P</i> 111 APM	L 9	# 80
	Comment Status X			Comment Type E Cor It is sufficient (and common) t	nment Status X o use "64B/66B block	s".	
SuggestedRemedy	M is executed. That FSM vali irely as they are superfluous. <i>Response Status</i> <b>0</b>	idates the block	types.	SuggestedRemedy Change "64B/66B encoded bl Proposed Response Resp	ocks" to "64B/66B blo ponse Status <b>O</b>	ocks".	
C/ <b>108</b> SC <b>108.5.2.4</b> Ran, Adee	P 111	L 19	# [128	C/ 108 SC 108.5.3.2 Brown, Matthew	<i>Р</i> 114 АРМ	L 18	# 81
Comment Type T Values of RSVD3, RSV	Comment Status X			Comment Type <b>T</b> Cor It is not clear what the followin "NOTE—The PHY may rely o		capability of the	25GBASE-R RS-FEC
SuggestedRemedy	adecimal FF and RSVD7 to he	exadecimal 00 e	everyhere.	sublayer to achieve its perform performance of the underlying	nance objectives. It is	recommended t	hat acceptable
SuggestedRemedy		exadecimal 00 e	everyhere.	sublayer to achieve its perform	nance objectives. It is	recommended t	hat acceptable
SuggestedRemedy Change RSVD3 to hexa		exadecimal 00 e	everyhere.	sublayer to achieve its perform performance of the underlying <i>SuggestedRemedy</i> Please clarify.	nance objectives. It is	recommended t	hat acceptable
SuggestedRemedy Change RSVD3 to hexa Change Pad to 0. Delete editor's note.		exadecimal 00 e	everyhere.	sublayer to achieve its perform performance of the underlying SuggestedRemedy Please clarify. Proposed Response Resp Cl 108 SC 108.5.3.2	nance objectives. It is I link is verified before	recommended t	hat acceptable
SuggestedRemedy Change RSVD3 to hexa Change Pad to 0. Delete editor's note. Proposed Response	adecimal FF and RSVD7 to he Response Status <b>O</b>	L 9	everyhere. # 112	sublayer to achieve its perform performance of the underlying SuggestedRemedy Please clarify. Proposed Response Resp Cl 108 SC 108.5.3.2 Dudek, Mike	nance objectives. It is I link is verified before Doonse Status <b>O</b>	recommended t error correction	hat acceptable is bypassed."
SuggestedRemedy Change RSVD3 to hexa Change Pad to 0. Delete editor's note. Proposed Response Cl 108 SC 108.5.2.4 Nertheim, Oded Comment Type ER	adecimal FF and RSVD7 to he Response Status <b>0</b>	L <b>9</b> nologie	# [112	sublayer to achieve its perform performance of the underlying SuggestedRemedy Please clarify. Proposed Response Resp Cl 108 SC 108.5.3.2 Dudek, Mike	nance objectives. It is I link is verified before boonse Status <b>O</b> P 114 QLogic mment Status <b>X</b> e RS-FEC encoding th o turn off the error cor prmance with error co	L 36	# 45
SuggestedRemedy Change RSVD3 to hexa Change Pad to 0. Delete editor's note. Proposed Response Cl 108 SC 108.5.2.4 Nertheim, Oded Comment Type ER 20480 257-bit transcode (instead of 81960).	adecimal FF and RSVD7 to he Response Status <b>0</b> P 111 Mellanox Techn Comment Status <b>X</b>	L <b>9</b> nologie	# [112	sublayer to achieve its perform performance of the underlying SuggestedRemedy Please clarify. Proposed Response Resp Cl 108 SC 108.5.3.2 Dudek, Mike Comment Type T Cor With the options to turn off the option) The additional option t understanding is that the perform	nance objectives. It is I link is verified before boonse Status <b>O</b> P 114 QLogic mment Status <b>X</b> e RS-FEC encoding th o turn off the error cor prmance with error co	L 36	# 45
SuggestedRemedy Change RSVD3 to hexa Change Pad to 0. Delete editor's note. Proposed Response C/ 108 SC 108.5.2.4 Wertheim, Oded Comment Type ER 20480 257-bit transcode (instead of 81960). SuggestedRemedy The distance between t	adecimal FF and RSVD7 to he Response Status <b>0</b> P 111 Mellanox Techn Comment Status <b>X</b>	<i>L</i> <b>9</b> nologie 1920 64B/66B er odeword marker	# 112 ncoded blocks.	sublayer to achieve its perform performance of the underlying SuggestedRemedy Please clarify. Proposed Response Resp Cl 108 SC 108.5.3.2 Dudek, Mike Comment Type T Corr With the options to turn off the option) The additional option t understanding is that the perfor the RS-FEC encoding is turned	nance objectives. It is link is verified before conse Status <b>O</b> <u>P 114</u> QLogic mment Status <b>X</b> e RS-FEC encoding th o turn off the error co prmance with error co ormance with error co ord off (no FEC option).	L 36	# 45

C/ 108 SC 108.5.3.2

C/ 108 SC 108.5.3.3 Baden, Eric	P 115 Broadcom	L <b>5</b>	# 35	<i>Cl</i> <b>108</b> Baden, Eric	SC 108.5.3.6	P <b>115</b> Broadcom	L <b>43</b>	# 30
to the PMA is unknown ( cannot guarantee hi_ber the PMA with zeros (effe PCS. SuggestedRemedy	Comment Status X lock is FALSE, the output of (X'). We need to guarantee will be triggered with unkno ctively a tx_disable) to ensu	block_lock is lo wn data. We si ire block lock is	est by the PCS. We hould drive the input to lost by the ensuing	41 indie Suggested	mment about inv cates the RX FSN Remedy e lines 43 thru 46	Comment Status X alid block types is unnecess I is executed. That FSM va c. Response Status O		
PMA, guaranteeing that Proposed Response	the receive PCS loses block Response Status <b>O</b>	k lock.		<i>Cl</i> <b>108</b> Brown, Mat	SC 108.5.3.6 thew	<i>Р</i> 115 АРМ	L 48	# 83
in the FEC/PCS baseline must be specified. SuggestedRemedy Retain item c as it is writ Proposed Response	P 115 APM Comment Status X e inclusion of the PCS trans e specification. However, thi ten or specify an alternate e Response Status O P 115	s process or an	equivalent process il.	Suggested Change "If rx_c idle cha To: "If rx_c to rx_c block a	ra encoding instu Remedy c: Dded<1:0> is eith aracters shall not Dded<1:0> is eith Dded<1:0> and th fter rx_coded_ou tely, add these e:	Comment Status X actions are not clearly tied to er 00 or 11, rx_coded_out< be inserted at the next bloc er 00 or 11, the process in l e process in list item b shal t." kceptions to list items b and <i>Response Status</i> <b>O</b>	1:0> shall be se k after rx_codec ist item c shall s l not insert idle o	t to rx_coded<1:0> and l_out." set rx_coded_out<1:0>
Baden, Eric <i>Comment Type</i> <b>TR</b> The function within the F shall not re-encode. It so other block types. Only <i>SuggestedRemedy</i>	P 115 Broadcom Comment Status X EC to insert IDLEs or Orden nall only insert IDLEs or Orden re-scrambling is required ar code, but should insert the m Response Status O	red sets to acco lered sets, and ld specified.	shall not insert any	rečeive m513 ( Suggested	<i>ype</i> <b>T</b> 108-4 (Receive b d before m512. <sup>-</sup> since k-1 = 513). <i>Remedy</i> jure 108-4 so as	P 116 Marvell Comment Status X it ordering): message block This does not seem correct, to replace m511 with m513. Response Status <b>0</b>	the expected fin	

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/ 108 SC 108.5.3.7 Page 15 of 30 2015-02-23 3:51:19 PM

C/ <b>108</b> SC <b>108.5.3.7</b> Baden, Eric	P 116 Broadcom	L <b>25</b>	# 31	C/ 108 SC 108.5.4 Cober, Don		P <b>117</b> CoMIRA Solut	L <b>23</b> tions Inc	# 116
Comment Type <b>TR</b> For the message block, th SuggestedRemedy Change m511 to m513 in		from 513 to 0,	and not from 511 to 0.			8 nibbles (4 A		edge of the codeword, (Only AM0 is saught
0	Response Status O			The extra checking s RSFEC.	should not be requ	ired for 25G R	RSFEC if it is not	needed for 100G
EEE signaling over the RS SuggestedRemedy A detailed proposal should		L 3 essed	# <u>129</u>	Bits [0:23] and [32:5	5] of the candidate er on a nibble-wis k fail to match the	e block are cor e basis (12 co correspondin red a valid co	mpared to the kromparisons). If n g known nibbles	o more than 3 nibbles
C/ 108 SC 108.5.4.2 Baden, Eric	P 111 Broadcom	L <b>9</b>	# 29	Cl 108 SC 108.5.4 Baden, Eric	I	P 117 Broadcom	L <b>23</b>	# 34
Comment Type TR The spacing between the SuggestedRemedy replace 81960 with 81920				all 48 nibbles in the	CW. That is not co	the same tim onsistent with	the intention, or	nibbles of error over with how 802.3bj rker, and whether 9 o
	Response Status <b>O</b>			SuggestedRemedy Cwm_valid should o whether 9 or more n			12 nibbles of the	e CW marker, and
				Proposed Response	Response St	atus <b>O</b>		

C/ 108 SC 108.5.4.2

C/ 108 SC 108.5.4.2 Brown, Matthew	<i>Р</i> <b>117</b> АРМ	L <b>47</b>	# 84	C/ 108 SC 108.5.4 Baden, Eric	5 P 119 Broadcom	L <b>9</b>	# 32
Comment Type <b>T</b> The test_cwm is set to state diagram.	Comment Status X false in two locations in the s	tate diagram. In	stead, just refer to the	Comment Type TR In figure 108-5. The	Comment Status X variable test_cwm does not ge s it need to be set? Is test_cw		
SuggestedRemedy Change: "when the FIND_1ST s	tate is entered"			SuggestedRemedy Define the source and	d usage of test_cwm variable		
To: "according to the FEC :	synchronization state diagrar	n in Figure 108-8	5."	Proposed Response	Response Status O		
Similarly, on same pag Change: "when the TEST_CW s To:				<i>Cl</i> <b>108</b> <i>SC</i> <b>108.5.4</b> Baden, Eric	5 <i>P</i> 120 Broadcom	L 1	# 33
	word monitor state diagram ir Response Status <b>O</b>	n Figure 108-6"			Comment Status X variable test_cw does not get s s it need to be set? Is test_cw		
C/ <b>108</b> SC <b>108.5.4.4</b> Brown, Matthew	<i>Р</i> <b>118</b> АРМ	L 13	# 85	SuggestedRemedy Define the source and	d usage of the test_cw variable	9.	
Comment Type E redundant word	Comment Status X			Proposed Response	Response Status <b>O</b>		
SuggestedRemedy Change: "codeword offset" To: "offset"							
Proposed Response	Response Status O						

C/ 108 SC 108.5.4.5

C/         108         SC         108.6         P         120         L         44         #         86           Brown, Matthew         APM         APM <th>CI 108         SC 108.6         P 121         L 20         # 10           Ran, Adee         Intel</th>	CI 108         SC 108.6         P 121         L 20         # 10           Ran, Adee         Intel
Comment Type E Comment Status X Incorrect use of commas and run on sentence.	Comment Type         E         Comment Status         X           MDIO control variable names should match the variable names in clause 45. In some cases they do not.
Replace: "If MDIO is implemented, it shall map MDIO control bits to RS-FEC control variables as shown in Table 108–1, and MDIO status bits to RS-FEC status variables as shown in Table 108–2, and if a separated PMA (see 45.2.1) is connected to the FEC service interface it shall map additional MDIO status bits to additional RS-FEC status variables as shown in Table 108–3."	In these cases, names in clause 45 text do not match names in clause 45 tables; It seems that the text names are more generic and suitable for a single-lane RS-FEC too. If possible, clause 45 tables should be corrected to match the text, but this may need to be done through maintenance.
With:	SuggestedRemedy
"If MDIO is implemented, it shall map MDIO control bits to RS-FEC control variables as shown in Table 108-1 and MDIO status bits to RS-FEC status variables as shown in Table 409.0 k a second to the SEC applies interface it shows	Use the following variable names from clause 45 instead of the names in clause 108 tables 108-2 and 108-3 (based on clause 45 text):
108-2. If a separated PMA (see 45.2.1) is connected to the FEC service interface, it shall map additional MDIO status bits to additional RS-FEC status variables as shown in Table	45.2.1.102.2 RS-FEC align status (row 4 of table 108-2)
108-3." roposed Response	45.2.1.103 RS-FEC corrected codewords counter (row 5 of table 108-2) 45.2.1.104 RS-FEC uncorrected codewords counter (row 6 of table 108-2) 45.2.1.106 RS-FEC symbol error counter lane 0 (row 7 of table 108-2)
	45.2.1.102.1 PCS align status (row 1 of table 108-3)
	Consider changing the tables in clause 45 toom or taking this part to maintenance.
	Proposed Response Response Status O
	Cl <b>109</b> SC <b>109.2</b> P <b>130</b> L <b>23</b> # 125 Ran, Adee Intel
	Comment Type E Comment Status X PMA service interface, so primitives should be PMA:*
	Also in line 39.
	SuggestedRemedy
	Change PMD to PMA, 4 times.

C/ 109 SC 109.2

<i>Cl</i> <b>109</b> Ran, Adee	SC 109.2	P <b>130</b> Intel	L <b>41</b>	# 126	<i>Cl</i> <b>109</b> Ran, Adee	SC 109.4.6.4	1 P 133 Intel	L <b>34</b>	# 11
Comment Ty "The PM Logic (S from the to the PM This stat SIL". Also, the	A:IS_SIGNAL IL) that report sublayer belo MA client" tement is uncl	Comment Status X indication primitive is genera s signal health based on recei ow, data being received from th ear, and it seems that it actua to relay the IS_SIGNAL.indica the value FAIL.	pt of the inst:IS ne sublayer belo Ily means "implo	SIGNAL.indication w, and bits being sent ementation dependent	Comment Variab refers (marke PRBS PRBS PRBS (PRBS (PRBS	Type E le to MDIO regis to the _receive_ ed in *), and one 31_Tx_checker_ 31_Rx_checker_ 31_enable _Tx_gen_enable 31_Tx_generat	Comment Status X ster mapping paragraph in 10 process and to variables that relevant variable is missing: _ability * _ability * e or_ability is missing)	at seem İrrelevar	nt for this subclause
The PM/ inst:IS_S methods inst.IS_S internally PMA:IS_	this paragraph A:IS_SIGNAL SIGNAL.indicas at the discret SIGNAL.indicates no _SIGNAL.indic ve the value C	indication primitive is generativation from the sublayer below a tion of the implementor. When ation from the sublayer below he signal, the SIGNAL_OK pararcation primitive shall have the	and PMA internative the SIGNAL_C mas the value F meter of the	al signal indication K parameter of AIL, or the PMA	variabl 109.4. PRBS: PRBS: (PRBS (PRBS 109.4. PRBS: PRBS	es, and some o 6.2 (receive PRI 31_Rx_checker 31_enable _Rx_gen_enable 31_Rx_generat 6.3 (transmit PR 31_enable _Tx_check_ena	e or_ability is missing) RBS31 checking):		
					PRBS PRBS	31_enable _Rx_check_ena	BS31 checking): ble r_ability is missing)		

109.4.6.5 (transmit PRBS9 generation): PRBS9\_enable PRBS\_Tx\_gen\_enable (PRBS9\_Tx\_generator\_ability is missing)

109.4.6.6 (receive PRBS9 generation): PRBS9\_enable PRBS\_Rx\_gen\_enable (PRBS9\_Rx\_generator\_ability is missing)

SuggestedRemedy

Remove irrelevant variables and add missing ones in each subclause, as listed above.

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/ 109 SC 109.4.6.1 Page 19 of 30 2015-02-23 3:51:19 PM

Dropood Dooponoo				. <u></u>			
Proposed Response	Response Status <b>O</b>			C/ 109 SC 109.4.6.		L <b>2</b>	# 49
C/ 109 SC 109.4.6	5.2 <i>P</i> 133	L	# 133	Dudek, Mike Comment Type ER	QLogic Comment Status X		
Dawe, Piers	Mellanox			The reference to MDI	O for PRBS31_RX_checker a	bility is before th	is function is described,
Comment Type E	Comment Status X				is included in 109.4.6.4		
Receive PRBS31 Te	st Pattern Generation - rogue c	apitals?		SuggestedRemedy			
SuggestedRemedy				Delete PRBS31_RX_	checker ability" from this list.		
Receive PRBS31 tes generation above).	st pattern generation (like 109.4	.6.1 Transmit Pl	RBS31 test pattern	Proposed Response	Response Status O		
Proposed Response	Response Status O			C/ 109 SC 109.6.4.	1 <i>P</i> 139	L <b>30</b>	# 87
				Brown, Matthew	APM		
C/ 109 SC 109.4.6	5.2 <i>P</i> 133	L <b>44</b>	# 47	Comment Type E	Comment Status X		
Judek, Mike	QLogic			Incorrect Heading Na	me		
Comment Type T	Comment Status X			SuggestedRemedy			
This section is about	generating the PRBS in the Re	eceive direction	not checking a PRBS.	Change:			
SuggestedRemedy				"109.6.45.1 PMA" To:			
Change "ability to ch	eck" to "ability to generate"			"109.6.45.1 PMA Fun	ctions"		
Proposed Response	Response Status <b>O</b>			Proposed Response	Response Status O		
C/ 109 SC 109.4.6	5.2 <i>P</i> 133	L <b>47</b>	# 48	C/ 109A SC 109A	P <b>207</b>	L <b>6</b>	# 138
Dudek, Mike	QLogic			Dawe, Piers	Mellanox		
Comment Type <b>T</b> What the "PMA clier	Comment Status X t" is is not very explicit.			Comment Type ER In English, adjectives	Comment Status X come before nouns.		
SuggestedRemedy				SuggestedRemedy			
Replace "toward the 135 line 6 and 8	PMA client" with "toward the PC	CS" on lines 47	and 50. Also on page		and 25G-AUI C2M to C2C 2 ms such as 25G-AUI-C and 2		I 25G-AUI throughout.

CI 109A SC 109A

109B         SC 109B.1.1         P 214         L 22         # 145           we, Piers         Mellanox	C/ 109B SC 109B.4.4.2 P 217 L 20 # 68
In 109B.3.3, add exceptions: Host implementer may comply to either the host stressed input test of 83E.3.3.2 (BER <= 1e-15) or to a test to BER<=1e-6 with the EW6, EH6 defined for the module output in 109B.3.2 with a VEC6 in the range of 3.5 dB to 4.5 dB with a target value of 4 dB. In 109B.3.4, add exceptions: Module implementer may comply to either the module stressed input test of 83E.3.4.1 (BER <= 1e-15) or to a test to BER<=1e-6 with the EW6, EH6 defined for the host output in	Proposed Response     Response Status     O       C/ 109B     SC 109B.4.4.4     P 217     L 40     # 110       Maki, Jeffery     Juniper Networks
109B.3.1.         pposed Response       Response Status	Comment Type <b>T</b> Comment Status <b>X</b> "As 83E.1.1 with settings associated with Recommended_CTLE_value" is not compatible with mandatory use of Adaptive receiver. 25G-AUI chip to module needs to use autonmous Adaptive reciver.
	SuggestedRemedy
	Should read "As 83E.1.1 with autonmous adaptive CTLE."

C/ 109B SC 109B.4.4.4

C/ 110 SC 110. Dudek, Mike	<i>P</i> <b>141</b> QLogic	L <b>48</b>	# 50	C/ <b>110</b> SC <b>110.</b> Ran, Adee	10 P 153 Intel	L 13	# 130
Comment Type <b>T</b> A BER of 1e-8 is requires Suggested Remedy	Comment Status X uired with the BASE-R FEC.	See ran_020415_	_25GE_adhoc		Comment Status X 28 were not part of the adopted ce list, but QSFP does not.	nomenclature. SF	P28 appears in the
	0^-8. Here and on page 149 lin Response Status <b>O</b>	ne 24 and Page 1	50 line 17,	·	FP28 and QSFP28 for the two M SFF-8665 (QSFP28) in 1.3.	IDI connector typ	es.
C/ 110 SC 110.1 Ran, Adee	P <b>141</b> Intel	L <b>48</b>	# 12	Remove editor's n	ote.		
Comment Type T	Comment Status X requirement when the BASE-F	P (clause 74) EEC	is used is currently	Proposed Response	Response Status <b>O</b>		
TBD. As presented ir	n ran_020415_25GE_adhoc, it nits for bmax (in COM parame	t is proposed to se	et the limit to 1e-8, and	C/ 110 SC 110.	10 <i>P</i> 153	L <b>29</b>	# 8
receiver tolerance tes	st).			Booth, Brad	Microsoft		
(See http://www.ieee	st). 802.org/3/by/public/adhoc/arc	,	,	Comment Type T	Microsoft <i>Comment Status</i> X cable assembly with no FEC.		
(See http://www.ieee SuggestedRemedy Change TBD to 1e-8 Change TBD to 4.7e Change TBD to 0.5 ir	,	hitecture/ran_020 table 110-8 (DER es.	415_25GE_adhoc.pdf)	Comment Type T Proposed text for SuggestedRemedy Add: c) Cable assembly 25GBASE-R RS-F	Comment Status X cable assembly with no FEC. y that supports links between two FEC or the BASE-R FEC sublaye scope of this standard, it is reco	ers are considered	d an engineered links.
(See http://www.ieeea SuggestedRemedy Change TBD to 1e-8 Change TBD to 4.7e- Change TBD to 0.5 ir Proposed Response	802.org/3/by/public/adhoc/arc in 110.1, in 110.8.4.1, and in -10 in table 110-5, test 3 value n table 110-8, b_max(n) for C/	hitecture/ran_020 table 110-8 (DER es.	415_25GE_adhoc.pdf)	Comment Type T Proposed text for SuggestedRemedy Add: c) Cable assembly 25GBASE-R RS-F While beyond the	Comment Status X cable assembly with no FEC. y that supports links between two FEC or the BASE-R FEC sublaye scope of this standard, it is reco	ers are considered	d an engineered links.
(See http://www.ieeei SuggestedRemedy Change TBD to 1e-8 Change TBD to 4.7e- Change TBD to 0.5 ir Proposed Response C/ 110 SC 110.1 Brown, Matthew	802.org/3/by/public/adhoc/arc in 110.1, in 110.8.4.1, and in -10 in table 110-5, test 3 value n table 110-8, b_max(n) for C/ <i>Response Status</i> <b>O</b> <i>P</i> <b>141</b>	hitecture/ran_020 table 110-8 (DER es. A_S.	415_25GE_adhoc.pdf) _0 for CA-S).	Comment Type T Proposed text for SuggestedRemedy Add: c) Cable assembly 25GBASE-R RS-F While beyond the COM requirement	Comment Status X cable assembly with no FEC. y that supports links between two FEC or the BASE-R FEC sublaye scope of this standard, it is reco s. Response Status 0	ers are considered	d an engineered links.
(See http://www.ieeei SuggestedRemedy Change TBD to 1e-8 Change TBD to 4.7e- Change TBD to 0.5 ir Proposed Response C/ 110 SC 110.1 Brown, Matthew Comment Type E It is not necessary to	802.org/3/by/public/adhoc/arc in 110.1, in 110.8.4.1, and in -10 in table 110-5, test 3 value n table 110-8, b_max(n) for C/ <i>Response Status</i> <b>O</b> <i>P</i> 141 APM <i>Comment Status</i> <b>X</b> point to specific subclauses for	hitecture/ran_020 table 110-8 (DER es. A_S. <i>L</i> <b>53</b>	415_25GE_adhoc.pdf) _0 for CA-S). # 88	Comment Type T Proposed text for a SuggestedRemedy Add: c) Cable assembly 25GBASE-R RS-F While beyond the COM requirement Proposed Response	Comment Status X cable assembly with no FEC. y that supports links between two FEC or the BASE-R FEC sublaye scope of this standard, it is reco s. Response Status 0	ers are considered mmended implerr	d an engineered links. nenters consider the
(See http://www.ieeei SuggestedRemedy Change TBD to 1e-8 Change TBD to 4.7e- Change TBD to 0.5 in Proposed Response C/ 110 SC 110.1 Brown, Matthew Comment Type E It is not necessary to the same for the PMI	802.org/3/by/public/adhoc/arc in 110.1, in 110.8.4.1, and in -10 in table 110-5, test 3 value n table 110-8, b_max(n) for C/ <i>Response Status</i> <b>O</b> <i>P</i> 141 APM <i>Comment Status</i> <b>X</b>	hitecture/ran_020 table 110-8 (DER es. A_S. <i>L</i> <b>53</b>	415_25GE_adhoc.pdf) _0 for CA-S). # 88	Comment Type T Proposed text for SuggestedRemedy Add: c) Cable assembly 25GBASE-R RS-F While beyond the COM requirement Proposed Response CI 110 SC 110. Dudek, Mike Comment Type TR	Comment Status       X         cable assembly with no FEC.       x         y that supports links between two       x         FEC or the BASE-R FEC sublayers       x         scope of this standard, it is records.       x         Response Status       0         10       P 153         QLogic       X	ers are considered mmended implem	d an engineered links. henters consider the # <u>54</u>
(See http://www.ieeei SuggestedRemedy Change TBD to 1e-8 Change TBD to 4.7e- Change TBD to 0.5 ir Proposed Response Cl 110 SC 110.1 Brown, Matthew Comment Type E It is not necessary to the same for the PMI SuggestedRemedy Replace:	802.org/3/by/public/adhoc/arcl in 110.1, in 110.8.4.1, and in -10 in table 110-5, test 3 value n table 110-8, b_max(n) for C/ <i>Response Status</i> <b>O</b> <i>P</i> <b>141</b> <i>APM</i> <i>Comment Status</i> <b>X</b> opoint to specific subclauses fo D transmitter and receiver.	hitecture/ran_020 table 110-8 (DER es. A_S. <i>L</i> 53 or the cable asset	415_25GE_adhoc.pdf) _0 for CA-S). # 88	Comment Type T Proposed text for SuggestedRemedy Add: c) Cable assembly 25GBASE-R RS-F While beyond the COM requirement Proposed Response CI 110 SC 110. Dudek, Mike Comment Type TR	Comment Status       X         cable assembly with no FEC.         y that supports links between two         FEC or the BASE-R FEC sublayed         scope of this standard, it is records.         Response Status       0         10       P 153         QLogic       Comment Status         X       the lowest latency systems an a	ers are considered mmended implem	d an engineered links. henters consider the # <u>54</u>
(See http://www.ieeei SuggestedRemedy Change TBD to 1e-8 Change TBD to 4.7e- Change TBD to 0.5 ir Proposed Response Cl 110 SC 110.1 Brown, Matthew Comment Type E It is not necessary to the same for the PMI SuggestedRemedy Replace: "cable assembly mee	802.org/3/by/public/adhoc/arc in 110.1, in 110.8.4.1, and in -10 in table 110-5, test 3 value n table 110-8, b_max(n) for C/ <i>Response Status</i> <b>O</b> <i>P</i> 141 APM <i>Comment Status</i> <b>X</b> point to specific subclauses for	hitecture/ran_020 table 110-8 (DER es. A_S. <i>L</i> 53 or the cable asset	415_25GE_adhoc.pdf) _0 for CA-S). # 88	Comment Type T Proposed text for a SuggestedRemedy Add: c) Cable assembly 25GBASE-R RS-F While beyond the COM requirement Proposed Response C/ 110 SC 110. Dudek, Mike Comment Type TR In order to enable	Comment Status       X         cable assembly with no FEC.         y that supports links between two         FEC or the BASE-R FEC sublayed         scope of this standard, it is records.         Response Status       0         10       P 153         QLogic       Comment Status         X       the lowest latency systems an a	ers are considered mmended implem	d an engineered links. henters consider the # <u>54</u>
(See http://www.ieeei SuggestedRemedy Change TBD to 1e-8 Change TBD to 4.7e- Change TBD to 0.5 in Proposed Response Cl 110 SC 110.1 Brown, Matthew Comment Type E It is not necessary to the same for the PMI SuggestedRemedy Replace:	802.org/3/by/public/adhoc/arc in 110.1, in 110.8.4.1, and in -10 in table 110-5, test 3 value n table 110-8, b_max(n) for C/ Response Status <b>O</b> P 141 APM Comment Status <b>X</b> opoint to specific subclauses for D transmitter and receiver. eting the requirements of 110.	hitecture/ran_020 table 110-8 (DER es. A_S. <i>L</i> 53 or the cable asset	415_25GE_adhoc.pdf) _0 for CA-S). # 88	Comment Type T Proposed text for a SuggestedRemedy Add: c) Cable assembly 25GBASE-R RS-F While beyond the COM requirement Proposed Response Cl 110 SC 110. Dudek, Mike Comment Type TR In order to enable that doesn't requir SuggestedRemedy Add an additional	Comment Status       X         cable assembly with no FEC.         y that supports links between two         FEC or the BASE-R FEC sublayed         scope of this standard, it is records.         Response Status       0         10       P 153         QLogic       Comment Status         X       the lowest latency systems an a	ers are considered mmended implem <i>L</i> 30 dditional cable typed ad with no FEC. S	d an engineered links. henters consider the # <u>54</u> pe should be added

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/ 110 SC 110.10 Page 22 of 30 2015-02-23 3:51:19 PM

C/         110         SC         110.10         P 153         L 36           Dudek, Mike         QLogic	# 55	C/ <b>110</b> Brown, Matth	SC <b>110.10.7.</b> ew	2 <i>F</i> AP	Р <b>156</b> М	L <b>46</b>	# 104
Comment Type <b>T</b> Comment Status <b>X</b> It is not true that all other parameters are identically specified as the CO different.	M parameters are		es should inclu	Comment State de 110.10.7.2.4.	ıs X		
SuggestedRemedy insert between "CA-S" and "All" "and some of the input parameters for th are different. Proposed Response Response Status <b>O</b>	ne COM calculation	SuggestedRe Change: "110.10.7 To: "110.10.7	7.2.3"				
response status O		Proposed Re	sponse	Response Statu	is O		
C/         110         SC         110.10.2         P 154         L 10           Dudek, Mike         QLogic         QLogic	# 56	C/ 110 Brown, Matthe	SC 110.11 ew	F AP	р <b>157</b> М	L 34	# 105
Left over paragraph refering to 100GBASE-CR4. The correct equivalent next paragraph SuggestedRemedy	t paragraph is the	subclause	e 110.7 is the es. Since there	e is just one 25GE	naracteristic ASE-CR PI	MD and it is this	
Delete the paragraph containing equation 92-26. Proposed Response Response Status <b>O</b>			an "as per x.x.>	e clause number( 			
		rather that	an "as per x.x.»				
Proposed Response         Response Status         O           Cl 110         SC 110.10.7.1.1         P 155         L 41	# 103	rather tha sentence SuggestedRe Change " Change "	an "as per x.x.» e <i>medy</i> ', as per 110.7' ',as per 110.10		need to rep ne 33 line 34		
Proposed Response Response Status O C/ 110 SC 110.10.7.1.1 P 155 L 41 Brown, Matthew APM	# 103	rather tha sentence SuggestedRe Change " Change "	an "as per x.x.> a. emedy ', as per 110.7' ',as per 110.10 f 110.8" and "o	". And there is no ' to "(110.7)" on lin " to "(110.10)" on	need to rep ne 33 line 34 37.		
Proposed Response       Response Status       O         Cl 110       SC 110.10.7.1.1       P 155       L 41         Brown, Matthew       APM         Comment Type       T       Comment Status       X         Should be specific about what is being calculated.       SuggestedRemedy       Change:       "The channel signal path from TP0 to TP5"	# 103	rather tha sentence SuggestedRe Change " Change " Delete "o Proposed Re	an "as per x.x.> emedy ', as per 110.70 f 110.8" and "o sponse SC <b>110.11.1</b>	". And there is no ' to "(110.7)" on lin " to "(110.10)" on of 110.10" on line <i>Response Statu</i>	need to rep ne 33 line 34 37. vs <b>O</b>		e the form "(x.x.x)" lbclauses in the next # 108
Proposed Response       Response Status       O         Cl 110       SC 110.10.7.1.1       P 155       L 41         Brown, Matthew       APM         Comment Type       T       Comment Status       X         Should be specific about what is being calculated.       SuggestedRemedy       Change:	# <u>103</u>	rather tha sentence SuggestedRe Change " Change " Delete "o Proposed Re C/ 110	an "as per x.x.> emedy ', as per 110.7' ',as per 110.10 f 110.8" and "o sponse SC <b>110.11.1</b> ew	". And there is no " to "(110.7)" on lin " to "(110.10)" on of 110.10" on line Response Statu	need to rep ne 33 line 34 37. Is <b>O</b>	point to these su	Ibclauses in the next
Proposed Response       Response Status       O         Cl 110       SC 110.10.7.1.1       P 155       L 41         Brown, Matthew       APM         Comment Type       T       Comment Status       X         Should be specific about what is being calculated.       SuggestedRemedy       Change:       "The channel signal path from TP0 to TP5"         To:       "The S-parameters of the channel signal path from TP0 to TP5"       "The S-parameters of the channel signal path from TP0 to TP5"	# 103	rather tha sentence SuggestedRe Change " Delete "o Proposed Re C/ 110 Brown, Matthe Comment Typ	an "as per x.x.> emedy ', as per 110.7' ',as per 110.10 f 110.8" and "c sponse SC 110.11.1 ew pe T	". And there is no " to "(110.7)" on lin " to "(110.10)" on of 110.10" on line <i>Response Statu</i> <i>R</i>	need to rep line 33 line 34 37. s <b>O</b> 2 <b>158</b> M <i>I</i> s <b>X</b>	boint to these su	Ibclauses in the next
Proposed Response       Response Status       O         Cl 110       SC 110.10.7.1.1       P 155       L 41         Brown, Matthew       APM         Comment Type       T       Comment Status       X         Should be specific about what is being calculated.       SuggestedRemedy       Change:         "The channel signal path from TP0 to TP5"       To:       "The S-parameters of the channel signal path from TP0 to TP5"	# <u>103</u>	rather tha sentence SuggestedRe Change " Delete "o Proposed Re C/ 110 Brown, Matthe Comment Typ It appears SuggestedRe Change: "The cont To:	an "as per x.x.> emedy ', as per 110.70 f 110.8" and "o sponse SC 110.11.1 ew oe T s that the table emedy tact assignment	". And there is no " to "(110.7)" on lin " to "(110.10)" on of 110.10" on line Response Statu F AP Comment Statu e only includes the	need to rep line 33 37. <b>b</b> <b>c</b> <b>158</b> M <i>us</i> <b>X</b> data signal	L 35	Ibclauses in the next

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/generalC/110Page 23 of 30COMMENT STATUS: D/dispatched A/accepted R/rejectedRESPONSE STATUS: O/open W/written C/closed Z/withdrawnSC 110.11.12015-02-23 3:51:19 PMSORT ORDER: Clause, Subclause, page, lineSC 110.11.1SC 110.11.1SC 110.11.1

C/ <b>110</b> SC <b>110.2</b> Brown, Matthew	<i>Р</i> <b>142</b> АРМ	L <b>47</b>	# 107	<i>Cl</i> <b>110</b> Ran, Adee	SC 110.6	P <b>144</b> Intel	L <b>42</b>	# 14
	Comment Status X s been introduced and used n	nultiple times prid	or to this subclause.	present	the baseline tations showed	Comment Status X proposal did not mention ope the desire to enable this mod	le of operation, a	ind all auto-negotiation
SuggestedRemedy Change heading from: "Physical Medium Dep To: "PMD service interface	pendent (PMD) service interfa	ce"		BER wi this BE	ithout any FEC R are yet to be	dress this mode as part of the is already specified in 110.1. defined, and may be beyond ild also be defined.	The channel req	uirements to achieve
Proposed Response	Response Status 0			Regardless of the electrical specification and the description of this mode.			N rules, there she	ould be a functional
				S <i>uggestedF</i> Add a tl	2	mode to the list in 110.6.		
				•	•	s in 110.1, the requirements ir 0.10, to use "mode" instead of		
						to the first paragraph of 110.8 is used, the receiver shall cor		1
				c) Cable	e assembly that	embly type in 110.10: at supports links between two ype is designated as "cable a		
					t in 110.10.2 a efined/discuss	nd a new column in table 110 ed.	-7 for no-FEC. N	laximum insertion loss
				Add a n Proposed R		table 110–8 for CA-N, with DE Response Status <b>0</b>	ER_0=1e-12, b_n	nax=0.5.

C/ 110 SC 110.6

C/ 110 SC 110.7.1	P 146	L 14	# 46	C/ 110 S	SC 110.8.4.1	P 149	L <b>35</b>	# 89
Dudek, Mike	QLogic			Brown, Matthe	W	APM		
Comment Type T	Comment Status X			Comment Type	ə T	Comment Status X		
between TP0 and TP better to refer to the	he Transmitter and receiver di 21 are not given in 92A.4 due to whole of the annex that include	o the effects of teres information on	st fixtures. It would be the test boards and	to test 1 fo		should be tested with a mi mode. Assuming a no-FE0 e.		
reference in clause 9	accounted for in the measuren 22).	ients. (as is done	in the equivalent	SuggestedRer	-			
SuggestedRemedy						ASE-R FEC mode with the receiver targets the same		haracteristics as test 1
Change the reference	e from 92A.4 to 92A.			Add a new	test for the no	-FEC mode with the same	channel charact	eristics as test 1 but
Proposed Response	Response Status <b>O</b>			Since eacl	n of these mod	eiver targets the same as f les are unique and the tabl ameter table for each mod	e includes a long	
C/ <b>110</b> SC <b>110.8</b> Brown, Matthew	<i>Р</i> <b>148</b> АРМ	L <b>40</b>	# 106	Proposed Res	oonse	Response Status <b>O</b>		
Comment Type E	Comment Status X			C/ 110 S	SC 110.8.4.2	P 150	L 11	# 51
	ations for the 25GBASE-CR P	MD, MDI, and Ch	annel. Subclause titles	Dudek, Mike		QLogic		
should be specific ab	bout this.			Comment Type	∋ T	Comment Status X		
SuggestedRemedy Change heading fron "25GBASE-CR elect				standard to	est equipment,	1 as an alternative pattern (or the internal PRBS31 g naving a PCS connected.		
To: "PMD electrical chara	acteristics"			SuggestedRer	nedy			
Proposed Response	Response Status <b>O</b>				Change to So rror detector a	crambled idle or PRBS31. s appropriate"	Add to the footn	ote c, "or with a
				Proposed Res	ponse	Response Status <b>O</b>		
				C/ 110 S	SC 110.8.4.2	P 150	L 6	# 90
				Brown, Matthe	W	APM		
				Comment Type		Comment Status X		
				For each o	of the test para	meter columns, there shou	ld be a brief des	cription of each in the
				heading ro	•			
					w.			
				heading ro SuggestedRer In test 1 ho In test 2 ho In test 3 ho	w. nedy eading add "R eading add "R eading add "B/	S-FEC min. loss" S-FEC max. loss" ASE-R FEC max. loss" 9 FEC max. loss"		

TYPE: TR/technical required ER/editorial required GR/gene	ral required T/technical E/editorial G/general	C/ 110	Page 25 of 30
COMMENT STATUS: D/dispatched A/accepted R/rejected	RESPONSE STATUS: O/open W/written C/closed Z/withdrawn	SC 110.8.4.2	2015-02-23 3:51:19 PM
SORT ORDER: Clause, Subclause, page, line			

C/         110         SC         110.8.4.2         P 150         L 7         # 91           Brown, Matthew         APM	C/ 110 SC 110.8.4.2.4 P 152 L 1 # 53 Dudek, Mike QLogic
Comment Type E Comment Status X There is no need to call out the subclauses as they are a part of 110.10.7.2.	Comment Type <b>T</b> Comment Status <b>X</b> The jitter of the pattern generator should be set to match the local table, not that for
SuggestedRemedy Delete "and its subclauses". Proposed Response Response Status <b>O</b>	100GBASE-CR4. SuggestedRemedy Change "in table 92-8" to "in table 110-5 Proposed Response Response Status <b>O</b>
C/ 110       SC 110.8.4.2.2       P 150       L 44       # 52         Dudek, Mike       QLogic         Comment Type       T       Comment Status       X	C/ <b>110A</b> SC <b>110A.7</b> P <b>225</b> L <b>42</b> # 57 Dudek, Mike QLogic
110.10.7 has different parameters for the different target systems. We need to be specific. SuggestedRemedy Add to bullet a). For tests 1 and 2 the COM parameters are those for CA-L, for test 3 the COM parameters are those for CA-S, and for test 4 the COM parameters are those for CA-N N (Separate comment to add parameters for CA-N). Also on page 151 line 37 insert between a) and b). "The COM parameters are as modified by table 110-8" using the COM parameters for CA-L for tests 1 and 2, the COM parameters for CA-S for test 3, and the	Comment Type       T       Comment Status       X         The Channel operating margin should reference 25Gbase-CR not 100GBASE-CR4.         SuggestedRemedy         Change the reference from 92.A.7 to 110.10.7         Proposed Response       Response Status       O
COM parameters for CA-N for test 4.	C/         110B         SC         110B.1.3.6         P 227         L 28         # 58           Dudek, Mike         QLogic         Image: Compare the second seco
COM parameters for CA-N for test 4.         Proposed Response       Response Status         C/ 110       SC 110.8.4.2.3       P 150       L 11       # 146         Mellitz, Richard       Intel Corporation       Intel Corporation         Comment Type       TR       Comment Status       X         test 3 and test 4 fitted insertion loss coefficients are not aligned with posted cable measurements	
COM parameters for CA-N for test 4.         Proposed Response       Response Status         C/ 110       SC 110.8.4.2.3       P 150       L 11       # 146         C/ 110       SC 110.8.4.2.3       P 150       L 11       # 146         Mellitz, Richard       Intel Corporation       Intel Corporation         Comment Type       TR       Comment Status       X         test 3 and test 4 fitted insertion loss coefficients are not aligned with posted cable measurements       SuggestedRemedy         SuggestedRemedy       See mellitz_by_xxx for recommended values.	Dudek, Mike       QLogic         Comment Type       T       Comment Status       X         Section 100B.1 appears to be all intended for SFP test fixtures, but that isn't clear.       SuggestedRemedy         Add SFP28 at the front of all the section headings in 11B.1.3       Proposed Response       Response Status       O         Cl 110B       SC 110B.1.3.6       P 229       L 4       # 109
COM parameters for CA-N for test 4.         Proposed Response       Response Status         Cl 110       SC 110.8.4.2.3       P 150       L 11       # 146         Cl 110       SC 110.8.4.2.3       P 150       L 11       # 146         Mellitz, Richard       Intel Corporation       # 146         Comment Type       TR       Comment Status       X         test 3 and test 4 fitted insertion loss coefficients are not aligned with posted cable measurements       SuggestedRemedy	Dudek, Mike       QLogic         Comment Type       T       Comment Status       X         Section 100B.1 appears to be all intended for SFP test fixtures, but that isn't clear.       SuggestedRemedy         Add SFP28 at the front of all the section headings in 11B.1.3       Proposed Response       Response Status       O         Cl 110B       SC 110B.1.3.6       P 229       L 4       # 109

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/ 110B SC 110B.1.3.6 Page 26 of 30 2015-02-23 3:51:19 PM

			·				
C/ 110C SC 110C.1	P L	# 147		C 110C.1	P 233	L <b>20</b>	# 69
Mellitz, Richard	Intel Corporation		Dudek, Mike		QLogic		
Comment Type TR Co	omment Status X		Comment Type	т	Comment Status X		
A no FEC link will like not wo	ork for a 3 meter cable.				stems using CA-S cables sh		
SuggestedRemedy					ection for the RS-FEC does i d. The sentence can also be		ell as no FEC so
Add another MDI called CA-	Ν.		SuggestedRem	edv			
Change 25GBASE-CR has two speci	ified MDI connectors, single-lar	ne (SFP28, specified in	•••	-	ecifications enable a shorter	reach of 3 m with	lower loss than CA-L,
110.11.1) and multi-lane			and are req	uired for cor	mpatibility with 25GBASE-C	R PHYs that byp	
	). This creates two host interfact to complete the connector	ce types and three cable ors at each end. These host and			t include the RS-FEC sublay ver options are available usir		PHY's that use the KR
cable assembly types are re			FEC or no I	EC. These	e options require the CA-S sp	pecifications which	ch have a shorter reach
	both the host receptacle (MDI) a plies have two sets of electrical			lower loss tl			
	0.10. CA-L specifications are b		Proposed Resp	onse	Response Status O		
100GBASE-CR4 cable asse	mbly (see	-					
92.10), enabling a 5 m reach RS-FEC sublaver (Clause 10	n, and are compatible with 25GE	BASE-CR PHYs that include the ed. The CA-S specifications	C/ 111 So	C 111.1	P 169	L <b>28</b>	# 59
enable a shorter reach of 3 r	n with	·	Dudek, Mike		QLogic		
lower loss than CA-L, and ar bypass RS-FEC	e required for compatibility with	h 25GBASE-CR PHYs that	Comment Type	TR	Comment Status X		
51	ot include the RS-FEC sublayer	r.			er latency options for backpla		
То			copper cabl this backpla		e BASE-R FEC and no FEC	endoing options	should be added to
10			SuggestedRem				
	ecified MDI connectors, single-l	lane (SFP28, specified in	00	,	and no FEC encoding option	s to the backplar	
110.11.1) and multi-lane (QSFP28, specified in 92.12	). This creates two host interfac	ce types and three cable			<b>-</b> .		
assembly types with differen	t combinations of the connecto	ors at each end. These host and	Proposed Resp	onse	Response Status <b>O</b>		
cable assembly types are re-	ferred to as both the host receptacle (MDI) a	and the cable assembly plug					
25GBASE-CR cable assemb	olies have two sets of electrical	I specifications, denoted CA-L,		C 111.10.4.	1 P 177	L <b>50</b>	# 60
CA-S and CA-N, as specified 100GBASE-CR4 cable asse		s are based on a single lane of	Dudek, Mike		QLogic		
		BASE-CR PHYs that include the	Comment Type	т	Comment Status X		
	08) with error correction enable	ed. The CA-S specifications	There is on	ly one lane.			
enable a shorter reach of 3 r lower loss than CA-L for inte		FEC The CA-S specifications	SuggestedRem	edy			
enable even a shorter reach	of 2 m with lower loss than CA		delete "on e	each lane"			
no FEC operation.			Proposed Resp	onse	Response Status O		
Proposed Response Re	sponse Status <b>O</b>						

C/ 111 SC 111.1**0.4**.1

C/ 111 SC 111.9 Dawe, Piers	P <b>175</b> Mellanox	L 17	# 139	C/ 112 SC 112.10 Dawe, Piers	.3 P 193 Mellanox	L <b>24</b>	# 142
SuggestedRemedy Remove the duplicate Insert: The 25GBASE-KR4 e KR4. Change PICS subclau	nvironmental specifications arous to 111.9, twice.			components perform	Comment Status X multimode fibre. Does IEC 617 ance standard, Part 021-2: Fib Category C-Controlled enviror	ore optic connecto	ors terminated on
Proposed Response	Response Status 0			C/ 112 SC 112.10 Dudek, Mike	<b>.3</b> <i>P</i> <b>193</b> QLogic	L <b>25</b>	# 63
strange. SuggestedRemedy	P 187 QLogic Comment Status X obal" seems strange. and "For			Comment Type <b>T</b> From the title of the system. SuggestedRemedy Delete paragraph d).	Comment Status X document IEC 61753-021-2 is i	not applicable to	this multimode fiber
replace "a glogal indic "For all lanes" Proposed Response	ator" with "an indicator" In tal Response Status <b>O</b>	ble 112-4 delete	"For any lane" and	Proposed Response	Response Status <b>O</b>		
C/ 112 SC 112.10.3 Dawe, Piers		L <b>22</b>	# [143	Cl 112 SC 112.11 Dudek, Mike Comment Type T	.4.4 P 197 QLogic Comment Status X e value/comment) the laser sat	L <b>30</b>	# 64
95.11.3.2 has perform performance specifica	Comment Status X OK for both SFP+ and QSFP f ance specifications IEC 61753 ations IEC 61753-1-1 and IEC etween IEC 61753-1 and IEC	8-1 and IEC 617 61753-022-2.	53-022-2. 52.14.4 has	SuggestedRemedy	to say "Hazard Level 1" not "H Response Status <b>O</b>		
SuggestedRemedy Consider if IEC 61753 in 95.11.3.2.	8-1-1 should be IEC 61753-1 h	ere or IEC 6175	3-1 be IEC 61753-1-1				
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: Clause, Subclause, page, line

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Dawe, Piers	P <b>188</b> Mellanox	L <b>30</b>	# 135	C/ <b>112</b> Dawe, Piers	SC 112.6	P <b>188</b> Mellanox	L <b>32</b>	# 144
Comment Type E Comment If the PMD has detected a local fault SuggestedRemedy		9		QSFP w	, \SE-SR transc	Comment Status X eiver in SFP+ format might b me Hazard Level as 100GBA / either		
If the PMD has detected a local fault	t on the receiver			SuggestedRe				
Proposed Response Response	Status <b>O</b>			Do we w	ant to tie the H	lazard Level to the form facto Level 1 or Hazard Level 1M.	r?	
C/ 112 SC 112.5.4 Dawe, Piers	P <b>187</b> Mellanox	L 19	# 140	Proposed Re	esponse	Response Status O		
Comment Type T Comment There's only one signal detect function		nulti-lane PMDs.		<i>Cl</i> <b>112</b> Dudek, Mike	SC 112.6.2	<i>P</i> <b>189</b> QLogic	L <b>9</b>	# 62
SuggestedRemedy Delete "global" from "SIGNAL_DETE optical signal." Merge 112.5.5 into 112.5.4 - it's the s	C C	al indicator of the	presence of the	are for re	, one transmitte eceive lanes.	Comment Status X er lane, but the requirements f	or the aggresso	r lanes in table 95-7
Merge 112.5.5 mill 112.5.4 - it's the	Same function.			SuggestedRe				
Proposed Pospense Despense	Ctatura O							
Proposed Response Response	Status O			Ŭ		aggressor" to "no receive ag	gressor".	
C/ 112 SC 112.5.9	P 188	L 23	# 134	Change Proposed Re		r aggressor" to "no receive ag Response Status <b>O</b>	gressor".	
C/ 112 SC 112.5.9 Dawe, Piers	P 188 Mellanox	L 23	# [134	Ŭ			gressor". L <b>39</b>	# [141
Cl <b>112</b> SC <b>112.5.9</b> Dawe, Piers Comment Type <b>E</b> Comment	P 188 Mellanox Status X	-	# 134	Proposed Re	esponse	Response Status <b>O</b>		# <u>1</u> 41
Cl 112 SC 112.5.9 Dawe, Piers Comment Type E Comment If the PMD has detected a local fault	P 188 Mellanox Status X	-	# [134	Proposed Re Cl 112	esponse SC 112.8.2	Response Status O		# <u>141</u>
Cl <b>112</b> SC <b>112.5.9</b> Dawe, Piers Comment Type <b>E</b> Comment If the PMD has detected a local fault SuggestedRemedy	P 188 Mellanox Status X t on the transmit land	-	# [134	Cl <b>112</b> Dawe, Piers Comment Ty	SC 112.8.2	Response Status O P 190 Mellanox		# <u>141</u>
Cl 112 SC 112.5.9 Dawe, Piers Comment Type E Comment If the PMD has detected a local fault SuggestedRemedy If the PMD has detected a local fault	P 188 Mellanox Status X t on the transmit land	-	# [134	Cl <b>112</b> Dawe, Piers Comment Ty	SC 112.8.2	Response Status O P 190 Mellanox Comment Status X		# <u>141</u>
Cl 112 SC 112.5.9 Dawe, Piers Comment Type E Comment If the PMD has detected a local fault SuggestedRemedy	P 188 Mellanox T Status X t on the transmit land t on the transmitter	-	# [134	Cl 112 Dawe, Piers Comment Ty The open SuggestedRe Remove	SC 112.8.2 pe T rating range se emedy the duplicate t rating range ar	Response Status O P 190 Mellanox Comment Status X	L 39	

C/ 112 SC 112.8.2

C/ 112	SC 112.9	P 191	L 36	# 148
Dawe, Piers		Mellanox		
Comment Typ	be T	Comment Status X		

Fiber optic cabling model is the same as for 100GBASE-SR4.

SuggestedRemedy

Delete present contents, refer to 95.10 Fiber optic cabling model and state that Cabling Skew and Cabling Skew Variation don't apply.

Proposed Response Response Status **O** 

C/ 112 SC 112.9