C/FM SC FM	P <b>1</b>	L 1	# i-90	C/FM SC FM		P 11	L 12	# <u>i-92</u>
aw, David	Hewlett Packar	d Enter		Law, David		Hewlett Pack	kard Enter	
Comment Type E	Comment Status X			Comment Type E	Commen	t Status X		
2015 please change	at IEEE P802.3by will be the seco (Amendment of IEEE Std 802.3) -2015 as amended by IEEE Std 8	(TM)-2015)' to	o read 'Amendment of		be the second a	amendment to I		015, the likelihood that 015, and the use of th
uggestedRemedy				SuggestedRemedy				
See comment.				Suggest that:				
Proposed Response	Response Status <b>O</b>				nt includes chang	ges to IEEE Sto	d 802.3-2015 and	5'. I adds Clause 96.' be s to IEEE Std 802.3-
C/FM SC FM	P 10	L 16	# i-91	2015 and adds Cla	use 96.'.		-	
aw, David	Hewlett Packar	d Enter		[3] 'IEEE Std 802.3 [4] 'This amendme				.3by-201x'. I adds Clause 105' I
Comment Type E	Comment Status X							s to IEEE Std 802.3-
				2015 and adds Cla	uno 105 '			
	IEEE 802.3 frontmatter document			2015 and adds Cla	use 105			
<http: 3<br="" ieee802.org="">'A full duplex MAC pr options, new speeds</http:>	IEEE 802.3 frontmatter document 3/WG_tools/templates/index.html: rotocol was added in 1997' after t of operation, and new capabilitie the second paragraph of the intro	> please add t he text 'Since is have been a	e 1985, new media	Proposed Response		Status O		
<http: 3<br="" ieee802.org="">'A full duplex MAC pr options, new speeds 802.3.' at the end of</http:>	3/WG_tools/templates/index.html: rotocol was added in 1997' after t s of operation, and new capabilitie	> please add t he text 'Since is have been a	e 1985, new media	Proposed Response		P 21	L 44	# <u>i</u> -93
<http: 3<br="" ieee802.org="">'A full duplex MAC pr options, new speeds 802.3.' at the end of</http:>	3/WG_tools/templates/index.html: rotocol was added in 1997' after t s of operation, and new capabilitie	> please add t he text 'Since is have been a	e 1985, new media	Proposed Response CI FM SC FM Law, David	Response	P <b>21</b> Hewlett Pacl	- • •	# <u>i-93</u>
<http: 3<br="" ieee802.org="">'A full duplex MAC proptions, new speeds 802.3.' at the end of SuggestedRemedy See comment.</http:>	3/WG_tools/templates/index.html: rotocol was added in 1997' after t s of operation, and new capabilitie the second paragraph of the intro	> please add t he text 'Since is have been a	e 1985, new media	Proposed Response C/ FM SC FM Law, David Comment Type E	Response	P 21 Hewlett Pack t Status X	kard Enter	
<http: 3<br="" ieee802.org="">'A full duplex MAC proposeds 802.3.' at the end of SuggestedRemedy See comment. Proposed Response</http:>	3/WG_tools/templates/index.html: rotocol was added in 1997' after t s of operation, and new capabilitie the second paragraph of the intro <i>Response Status</i> <b>O</b>	> please add t he text 'Since is have been a oduction text.	1985, new media added to IEEE Std	Proposed Response C/ FM SC FM Law, David Comment Type E	Response Commen bw-2015 has bee	P 21 Hewlett Pack <i>t Status</i> X en approved, ar	kard Enter	that IEEE P802.3by
<http: 3<br="" ieee802.org="">'A full duplex MAC proptions, new speeds 802.3.' at the end of SuggestedRemedy See comment. Proposed Response</http:>	3/WG_tools/templates/index.html: rotocol was added in 1997' after t s of operation, and new capabilitie the second paragraph of the intro <i>Response Status</i> <b>O</b> <i>P</i> <b>10</b>	> please add t he text 'Since is have been a oduction text.           bduction text.           L 17	e 1985, new media	Proposed Response C/ FM SC FM Law, David Comment Type E As IEEE Std 802.3 will be the second	Response Commen bw-2015 has bee	P 21 Hewlett Pack <i>t Status</i> X en approved, ar	kard Enter	that IEEE P802.3by
<http: 3<br="" ieee802.org="">'A full duplex MAC proptions, new speeds 802.3.' at the end of SuggestedRemedy See comment. Proposed Response</http:>	3/WG_tools/templates/index.html: rotocol was added in 1997' after t s of operation, and new capabilitie the second paragraph of the intro <i>Response Status</i> <b>O</b> <i>P</i> <b>10</b> Ciena Corporat	> please add t he text 'Since is have been a oduction text.           bduction text.           L 17	1985, new media added to IEEE Std	Proposed Response CI FM SC FM Law, David Comment Type E As IEEE Std 802.3 will be the second removed.	Commen bw-2015 has bee amendment to IE	P 21 Hewlett Pack <i>t Status</i> X en approved, ar EE Std 802.3-2	kard Enter	that IEEE P802.3by
<http: 3<br="" ieee802.org="">'A full duplex MAC proposed solutions, new speeds 802.3.' at the end of SuggestedRemedy See comment. Proposed Response C/ FM SC FM Anslow, Peter Comment Type E</http:>	3/WG_tools/templates/index.html: rotocol was added in 1997' after t s of operation, and new capabilitie the second paragraph of the intro <i>Response Status</i> <b>O</b> <i>P</i> <b>10</b>	> please add the text 'Since is have been about to text.           bduction text.   L 17 Ion	1985, new media added to IEEE Std	Proposed Response CI FM SC FM Law, David Comment Type E As IEEE Std 802.3 will be the second removed. SuggestedRemedy	Response Commen bw-2015 has bee amendment to IE	P 21 Hewlett Pack <i>t Status</i> X en approved, ar EE Std 802.3-2	kard Enter	that IEEE P802.3by
<http: 3<br="" ieee802.org="">'A full duplex MAC proposed solutions, new speeds 802.3.' at the end of SuggestedRemedy See comment. Proposed Response C/ FM SC FM Anslow, Peter Comment Type E</http:>	3/WG_tools/templates/index.html: rotocol was added in 1997' after t s of operation, and new capabilitie the second paragraph of the intro <i>Response Status</i> <b>O</b> <i>P</i> <b>10</b> Ciena Corporat <i>Comment Status</i> <b>X</b>	> please add the text 'Since is have been about to text.           bduction text.   L 17 Ion	1985, new media added to IEEE Std	Proposed Response CI FM SC FM Law, David Comment Type E As IEEE Std 802.3 will be the second removed. SuggestedRemedy Suggest the text ar	Response Commen bw-2015 has bee amendment to IE	P 21 Hewlett Pack <i>t Status</i> X en approved, ar EE Std 802.3-2	kard Enter	that IEEE P802.3by
<http: 3<br="" ieee802.org="">'A full duplex MAC proportions, new speeds 802.3.' at the end of SuggestedRemedy See comment. Proposed Response C/ FM SC FM Inslow, Peter Comment Type E The Introduction has SuggestedRemedy Add "A full duplex M/</http:>	3/WG_tools/templates/index.html: rotocol was added in 1997' after t s of operation, and new capabilitie the second paragraph of the intro <i>Response Status</i> <b>O</b> <i>P</i> <b>10</b> Ciena Corporat <i>Comment Status</i> <b>X</b>	> please add the text 'Since is have been about to text.           bduction text.   L 17 Ion	1985, new media added to IEEE Std	Proposed Response CI FM SC FM Law, David Comment Type E As IEEE Std 802.3 will be the second removed. SuggestedRemedy Suggest the text ar	Response Commen bw-2015 has bee amendment to IE	P 21 Hewlett Pack <i>t Status</i> X en approved, ar EE Std 802.3-2	kard Enter	that IEEE P802.3by

C/ FM SC FM

	i-104 C/ 001 SC 1.1.3.2 P 22 L 17 # i-23
Stanton, Penny	RAN, ADEE Intel Corporation
Comment Type E Comment Status X	Comment Type TR Comment Status X
Normative reference SFF 8665 is not cited in the draft. If it is needed for the implementation of the draft, please cite in text or please verify if it has been cited in the base already (therefore not needing to be cited amendment).	New item j (25GAUI) includes "conformance () is recommended, since it allows maximum flexibility in intermixing PHYs and DTEs at 25 Gb/s speeds". I in this This argument seems to apply to the xMII interface description (and also to XAUI) but is
SuggestedRemedy	irrelevant and incorrect for 25GAUI, which is internal to the PHY sublayers.
	Note that this comment also applies to the CAUI and XLAUI list items in the base standar
Proposed Response Response Status O	SuggestedRemedy
	Change "allows maximum flexibility in intermixing PHYs and DTEs" to "allows flexibility in intermixing PHY chips and modules".
C/         000         SC         0         P         0         L         0         #           RAN, ADEE         Intel Corporation         Intel Corporation	i-19 Proposed Response Response Status O
Comment Type E Comment Status X Within this draft we are inconsistent in using "a FEC" and "an FEC". In 105.3.3 109C we have "an FEC"; in 107.1.4, 109.1.4 we have "a FEC". We should decide if FEC is an acronym (pronounced like "feck") or an initialisi	Law, David Hewlett Packard Enter
My impression is that the former is de facto accepted. This inconsistency also exists in the base document. I am considering a main request to align everything that isn't in scope of 802.3by.	Comment Type E Comment Status X
SuggestedRemedy	SuggestedRemedy
Change "An FEC sublayer" to "A FEC sublayer" in 105.3.3, P79 L9. Change "an FEC" to "a FEC" in 109C, P220 L14.	Suggest that ' SFP+ 28 Gb/s 1x Pluggable' be changed to read ' SFP+ 28 Gb/s Pluggable'.
Proposed Response Response Status <b>O</b>	Proposed Response Response Status <b>O</b>
C/ 000 SC 0 P 12 L 3 #	i-12 C/ 001 SC 1.3 P 22 L 40 # i-95
Marris, Arthur Cadence Design Syste	Law, David Hewlett Packard Enter
Comment Type ER Comment Status X	Comment Type T Comment Status X
Five levels of numbering should be shown in the table of contents	The revision of the SFF-8665 specification available at <ftp: ftp.seagate.com="" sff=""> is Rev 1.9 dated June 29, 2015.</ftp:>
SuggestedRemedy	SuggestedRemedy
Show five levels of numbering in the table of contents	Update the reference 'SFF-8665, Rev 1.8, May 10, 2013, QSFP+ 28 Gb/s 4X Pluggable
Proposed Response Response Status O	Transceiver Solution (QSFP28).' to read 'SFF-8665, Rev 1.9, June 29, 2015, QSFP+ 28 Gb/s 4X Pluggable Transceiver Solution (QSFP28).'.

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 C/ 001

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 SC 1.3

 SORT ORDER: Clause, Subclause, page, line
 SC 1.3
 SC 1.3

Pag 201

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C/ <b>001</b> SC <b>1.4</b> _aw, David	P <b>23</b> Hewlett Pack	L 10 ard Enter	# <u>i-89</u>	<i>Cl</i> <b>030</b> <i>SC</i> <b>30.3.2.1.2</b> Law, David	P <b>25</b> Hewlett Pack	L 11 kard Enter	# <u>i-96</u>
Comment Type E Based on definitions b SR' come after '25GB.	Comment Status X being in alphanumerical order ASE-R'?	shouldn't the de	inition for '25GBASE-	Comment Type E Con Change 'IEEE Std 802.3bw-20 draft.	nment Status X 1x' to read 'IEEE Sto	d 802.3bw-2015' ł	nere and throughout
SuggestedRemedy Suggest that:				SuggestedRemedy See comment.			
25GBASE-KR-S.	-R' should read '1.4.64f 25GF SR' should read '1.4.64g 250			Proposed Response Resp	onse Status O		
25GBASE-R. Proposed Response	Response Status <b>O</b>			C/ 030 SC 30.5.1.1.2 Hajduczenia, Marek	P <b>25</b> Bright House	L <b>52</b> Network	# <u>i-3</u>
C/ 001 SC 1.4.134 łajduczenia, Marek	P 23 Bright House	L 35 Network	# <u>i-2</u>	Comment Type E Com Please make sure all reference 802.3bw-2015" - it has bee app SuggestedRemedy			
Comment Type E Wrong position of ".". UggestedRemedy Is "Clause 11)." and sl	Comment Status X			Proposed Response Resp	onse Status O	L 40	# i-103
roposed Response	Response Status O			RAN, ADEE	Intel Corpora		# <u> </u> -105
C/ 030 SC 30.3.2 Marris, Arthur Comment Type E Correct subclause hea	P 25 Cadence Des <i>Comment Status</i> X ading	L <b>6</b> sign Syste	# [i-13	Comment Type <b>T</b> Com There is a possible discrepance addressed by this subclause: 8 802.3bq assumed it is in the si Gb/s and higher").	302.3by adds it to the	e eighth paragrap	h (with 10 Gb/s) while
SuggestedRemedy Change:	Ũ			It may make more sense for 8 A comment is submitted to bot two task forces.			
To: PHY device managed	-			SuggestedRemedy Move the addition of "and 25 G (Starting with "For 40 Gb/s and		paragraph to the	sixth paragraph
roposed Response	Response Status O			In the sixth paragraph, delete t	,	"(see 81.3.4)", si	nce link_fault is define
				in multiple clauses.			

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 C/ 030
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 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn
 SC 30.5.1.1.4
 2015-12-26 1:21:13 AM

 SORT ORDER: Clause, Subclause, page, line
 SC 30.5.1.1.4
 SC 30.5.1.1.4
 SC 30.5.1.1.4

C/ 030         SC 30.5.1.1.15         P 27         L 1         # i-97           Law, David         Hewlett Packard Enter	C/         045         SC         45.2.1         P 29         L 13         #         i-11           Marris, Arthur         Cadence Design Syste
Comment Type E Comment Status X Typo.	Comment Type E Comment Status X There is no need to reference IEEE Std 802.3bn-201x
SuggestedRemedy Suggest ' supports an FEC sublayer' should read ' supports a FEC sublayer' (strikeout text not shown). Proposed Response Response Status <b>O</b>	SuggestedRemedy Change: (as modified by IEEE Std 802.3bn-201x and IEEE Std 802.3bw-201x which inserted new registers at addresses 1.17 and 1.18) To: (as modified by IEEE Std 802.3bw-2015)
C/ 030         SC 30.5.1.1.16         P 27         L 25         # i-102           Law, David         Hewlett Packard Enter         Hewlett Packard Enter         Hewlett Packard Enter	Proposed Response Response Status O
Comment Type E Comment Status X Enumerations should be within double inverted commas.	C/         045         SC         45.2.1.1         P 30         L 20         #         i-4           Hajduczenia, Marek         Bright House Network         Bright House Network         Bright House Network         Bright House Network
SuggestedRemedy         Change ' enumerations 'BASE-R enabled' and' to read ' enumerations "BASE-R enabled" and'. Make similar changes for all referenced enumerations in Clause 30.         Proposed Response       Response Status       O	Comment Type       E       Comment Status       X         SC and RO are not present in shown Table 45-4, no need to present them.         There are also other footnotes to tables in Clause 45 that list bit types not listed in this amendment.
	SuggestedRemedy Remove ", SC = Self-clearing, RO = Read only" from footnote to Table 45-4
C/045 SC 45 P 29 L 1 # i-5	
Hajduczenia, Marek Bright House Network	Proposed Response Response Status O
	Cl 045 SC 45.2.1.4 P 31 L 3 # i-14 Marris, Arthur Cadence Design Syste Comment Type G Comment Status X
Hajduczenia, Marek       Bright House Network         Comment Type       ER       Comment Status X         There are multiple instances of new "shall" statements and some instances of removed "shall" statements present in changes to Clause 45.       No PICS are present, though	C/ 045 SC 45.2.1.4 P 31 L 3 # i-14 Marris, Arthur Cadence Design Syste Comment Type G Comment Status X Remove mention of 802.3bn SuggestedRemedy
Hajduczenia, Marek       Bright House Network         Comment Type       ER       Comment Status X         There are multiple instances of new "shall" statements and some instances of removed "shall" statements present in changes to Clause 45. No PICS are present, though         SuggestedRemedy         Please add missing PICS for Clause 45 (updates, i.e., new PICS needed + changes to existing PICS)	Cl 045 SC 45.2.1.4 P 31 L 3 # [-14 Marris, Arthur Cadence Design Syste Comment Type G Comment Status X Remove mention of 802.3bn
Hajduczenia, Marek       Bright House Network         Comment Type       ER       Comment Status X         There are multiple instances of new "shall" statements and some instances of removed "shall" statements present in changes to Clause 45.       No PICS are present, though         SuggestedRemedy       Please add missing PICS for Clause 45 (updates, i.e., new PICS needed + changes to existing PICS)	Cl 045 SC 45.2.1.4 P 31 L 3 # i-14 Marris, Arthur Cadence Design Syste Comment Type G Comment Status X Remove mention of 802.3bn SuggestedRemedy Delete:

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

C/ 045 SC 45.2.1.4 Page 4 of 22 2015-12-26 1:21:13 AM

C/ 045 SC 45.2.1.4 P 31 L 3 # [-33	CI 045 SC 45.2.1.97 P 37 L 15 # i-34
Anslow, Peter Ciena Corporation	Anslow, Peter Ciena Corporation
Comment Type E Comment Status X	Comment Type ER Comment Status X
Since it is unlikely that the P802.3bn amendment will be approved before P802.3by completes, it is not appropriate to refer to 802.3bn in the editing instruction.	The response to comment #21 against D2.1 changed all seven subclauses of 45.2.1.97 and 45.2.1.99 to remove all references to CAUI-4, chip-to-chip, and that this applies to lan
SuggestedRemedy Change the editing instruction to: "Change the reserved row for 1.4.15:10 in Table 45-6 and insert two new rows immediately below as follows (unchanged rows not shown):" Show the reserved row as being changed from "1.4.15:10" and add another row for	<ol> <li>These subclauses were already difficult to understand because of the fact that there ar transmitters in the receive direction and receivers in the transmit direction. The changes being made by P802.3by make the subclauses much harder to understand than they were previously.</li> </ol>
"1.4.10", "Reserved", "Value always 0", "RO"	SuggestedRemedy
Proposed Response       Response Status       O         C/ 045       SC 45.2.1.97       P 37       L 4       # i-18         Marris, Arthur       Cadence Design Syste	Reinstate the strikethrough text and add 25GAUI throughout the subclauses of 45.2.1.97 and 45.2.1.99. For instance in 45.2.1.97.2, show the text as changing to: The value of these bits indicates the value of the variable Requested_eq_c1 in the 25GAU or lane 0 CAUI-4 receiver in the receive direction (see 83D.3.3.2). When Request_flag is equal to 1, this value indicates the ratio of the post-cursor coefficient c(1), which is requested for the transmitter equalization in the 25GAUI or lane 0 CAUI-4 C2C transmitter in the receive direction.
Comment Type T Comment Status X Register name needs improvement	Proposed Response Response Status <b>O</b>
SuggestedRemedy	
Change register name from: "CAUI-4 C2C and 25GAUI C2C transmitter equalization, receive direction, lane 0 register" To:	C/         045         SC         45.2.3.6         P 43         L 3         # i-15           Marris, Arthur         Cadence Design Syste
"25GAUI C2C and CAUI-4 C2C lane 0 receive direction transmitter equalization register"	Comment Type G Comment Status X Remove mention of 802.3bg
Also update following text as appropriate to accommodate this change. Make similar change for transmit direction in subclause 45.2.1.99.	SuggestedRemedy
Proposed Response Response Status <b>O</b>	Delete: (as modified by IEEE Std 802.3bq-201x)
	Change 110 entry to Reserved
	Proposed Response Response Status <b>O</b>

C/ 045 SC 45.2.3.6

Cl 045 SC 45.2.3.7 Marris, Arthur	P <b>43</b> Cadence Desig	<i>L</i> <b>30</b> gn Syste	# i-16	C/ 073 SC 73.6.4 RAN, ADEE	P <b>55</b> Intel Corporati	L <b>5</b>	# <u>i-20</u>
Comment Type E Remove mention of 80	Comment Status X 2.3bq			Comment Type E Missing dash in 25G	Comment Status X BASEKR-S		
SuggestedRemedy Delete:				SuggestedRemedy Change 25GBASEK	R-S to 25GBASE-KR-S		
(as modified by IEEE S	Std 802.3bq-201x which inserte	ed a row for bit	3.8.6)	Proposed Response	Response Status 0		
Add additional row for	bit 3.8.6 and mark it as reserve	ed					
Proposed Response	Response Status 0			C/ 074 SC 74.1 Law, David	<i>Р</i> <b>59</b> Hewlett Packa	L 11 ard Enter	# <u>i-98</u>
XGMII = 10 Gb/s MED XLGMII = 40 Gb/s MEI but 25 GIGABIT MEDIA IN	P 53 Bright House N Comment Status X g: DIA INDEPENDENT INTERFA DIA INDEPENDENT INTERFA DIA INDEPENDENT INTERFACE	ACE DE ACE	# <u>i-6</u>	Figure 74-3, and Figure 74-3, and Figure 74-3, and Figure 74-4 is th SuggestedRemedy Suggest the text ' a	Comment Status X 8 802.3-2015 subclause 74.1 tex rre 74-4.' where Figure 74-2 is t Figure 74-3 is the ' Functional b e 'Functional block diagram for as shown in Figure 74-2, Table 7 Figure 74-2, Figure 74-2a, Figure Response Status <b>0</b>	the 'Functional l block diagram fo 100GBASE-R I 74-2a, and Figu	block diagram for or 40GBASE-R PHY' PHY'. re 74-4.' be changed to
GIGABIT rather than u SuggestedRemedy Change 25 GIGABIT MEDIA IN to	Se "Gb/s" as done in newer project anong an new pro IDEPENDENT INTERFACE PENDENT INTERFACE						

Move the definition in Figure 73-1 to under XLGMII

Proposed Response

Response Status 0

C/ 074 SC 74.1

C/ 074 SC 74.4.1a	P 61	L <b>21</b>	# i-100	C/ 074	SC 74.5.1a	P 62	L <b>34</b>	# i-99
Law, David	Hewlett Pack	kard Enter		Law, David		Hewlett I	Packard Enter	
Comment Type T	Comment Status X			Comment T	ype TR	Comment Status X		
Add the optional primitives	s for EEE operation (see	Figure 105-3) to	this figure.			GBASE-R service primit		
SuggestedRemedy						instance of the inter-subl ted FEC service interface		
Suggest that:						vention defined in subcla		
						5-3 'Optional inter-sublay	ver service interfaces	s for EEE deep sleep
[1] An arrow be added fror	m the PCS sublayer to the	e FEC sublayer I	abelled with:	support				
FEC:IS_RX_MODE.reque				Subclau	use 74.5.1a			
FEC:IS_TX_MODE.reques FEC:IS_RX_LPI_ACTIVE.								
(EEE deep sleep only)	liequesi			_	X_MODE.requ X_MODE.requ			
		500 11 1			X_TX_MODE.i			
[2] An arrow be added fror	m the FEC sublayer to the	e PCS sublayer I	abelled with:	_	PI_ACTIVE.rec NERGY.indica	•		
FEC:IS_ENERGY_DETEC	CT.indication			120_2				
(EEE deep sleep only)				Figure 2	105-3			
[3] An arrow be added fror	n the FEC sublayer to the	e PMA sublayer l	labelled with:	FEC:IS	TX MODE.re	quest		
		·			_RX_MODE.re	•		
PMA:IS_RX_MODE.reque PMA:IS TX MODE.reque					_RX_TX_MOD _RX_LPI_ACT			
(EEE deep sleep only)	51					TECT.indication		
[4] An arrow be added fror	n the DMA sublever to th	a EEC aublavar	laballad with	SuggestedF	Remedy			
[4] An arrow be added not	II the FIMA Sublayer to th	le FEC Sublayer		Update	the EEE relate	ed FEC service interface	primitives described	in subclause 74.5.1a to
PMA:IS_ENERGY_DETE						es defined in subclause 1		
PMA:IS_RX_TX_MODE.ir (EEE deep sleep only)	dication					nder of Clause 74 as it us mode by FEC:IS_TX_M		ommunicated by the
	Response Status <b>O</b>			Proposed R		Response Status <b>O</b>	·	
				, repected h	00,00100			

C/ 074 SC 74.5.1a Page 7 of 22 2015-12-26 1:21:13 AM

C/ 074 SC 74.5.1a	P 62	L 40	# <u>i-101</u>	C/ 092	SC 92.8.4.4.3	P 42		# i-88
Law, David	Hewlett Packa	rd Enter		Dawe, Piers	JG	Mellan	ox Technologie	
Comment Type T	Comment Status X			Comment Ty	/pe TR	Comment Status	X	
Aren't these primitives onl capability with the deep sl line 21).				110.8.4. 111.8.3.	2.4 refers to Eq 1 refers to 93.8	. 92-22. .2.3 which refers to A	6: the Gaussian filter i nnex 93C, 93C.2 item	
SuggestedRemedy						A.2" and 93A.2 conta avs "If a transmitter w	ains Eq. 93A-46. vith high quality termin	ation is used in the
Suggest the text ' Items d capability.' be changed to Energy Efficient Ethernet	read ' Items d), e), f), g), a	nd h) are only r	equired for the optional	COM ca added to	Iculation, the te Equation (93A	rmination is modeled	as ideal and a Gauss ame 20% to 80% tran	ian low pass filter is
Proposed Response	Response Status O			[Editor c	hange Clause t	o 110.]		
				SuggestedR	emedy			
C/ <b>074</b> SC <b>74.7.4.1.2</b> Hajduczenia, Marek	P <b>64</b> Bright House∃	L <b>45</b> Network	# i-7		ctor of 2 in both pi*f*Tr/1.6832)^			
Comment Type E	Comment Status X			Proposed Re	esponse	Response Status	0	
Serial comma missing in " 100GBASE-R"	Reverse gearbox function	for 25GBASE-F	R, 40GBASE-R and					
SuggestedRemedy				C/ 105	SC 105.1.3	P77		# <u>i-8</u>
Change to "Reverse gearb	pox function for 25GBASE	R, 40GBASE-R	R, and 100GBASE-R"	Hajduczenia		0	House Network	
Proposed Response	Response Status <b>O</b>			Comment Ty		Comment Status		
	, 			stateme			a forced line break in references into a sepa	
C/ 078 SC 78.1.3.3.1	P 72	L 36	# i-17	SuggestedR	emedy			
Marris, Arthur	Cadence Desi	gn Syste		Per com	-			
Comment Type <b>G</b> Remove mention of 802.3	<i>Comment Status</i> <b>X</b> bq			Proposed R	esponse	Response Status	0	
SuggestedRemedy								
Delete "as modified by IEI	EE Std 802.3bq-201x"							
Revert included changes i	included by 802.3ba bv de	eting "Except fo	or BASE-T," on line 37					
and "Except for BASE-T F		3p	,					
Brananad Baananaa								

Proposed Response Response Status **0** 

C/ 105 SC 105.1.3

Cl <b>105</b> SC <b>105.4.3.2</b> . Hajduczenia, Marek	1 P 82 Bright House	L 1 Network	# <u>i-9</u>	C/ 107 SC 107.2 RAN, ADEE	P <b>96</b> Intel Corpora	L <b>7</b> tion	# i-27
PMA:IS_UNITDATA.inc SuggestedRemedy	Comment Status X ason why arrows for FEC:IS_ lication have white spaces in	n them?		Comment Type <b>TR</b> ber_cnt is defined as "cou exceeds 97". There is a co Clause 49).			
	from a drawing that had mul oxes, unless dashed arrows			According to the state diag _reaches_ 16, (not exceed SuggestedRemedy			when the count
Proposed Response	Response Status O			Change "exceeds 97" to "r	reaches 97". Response Status <b>O</b>		
C/ <b>105</b> SC <b>105.5</b> Remein, Duane	Р <b>86</b> Futurewei Te	L 21	# i-52				
108.4). No where are th Without some restrictio time of day protocols ca SuggestedRemedy	ere are restrictions on maxir ere placed any bounds on n n (or at the very least a decla annot meet their stated object aximum delay variation <or variation. Response Status <b>O</b></or 	ninimum delay o aration of max d ctives.	r delay variation. elay variation) most	Comment Type <b>T</b> Following comment #65 as "The status of the codewo FEC_align_status." The codeword marker lock other variable is part of a r	ord marker lock process sl k status is one of many st	atus variables d	efined in this clause. N
C/ <b>106</b> SC <b>106.3</b> Hajduczenia, Marek Comment Type <b>E</b>	P 91 Bright House Comment Status X	L <b>7</b> Network	# [i-10	reason to make an except If the requirement stays no MDIO is not implemented. SuggestedRemedy Change "shall be reflected	ion for this variable. ormative, then text should but that doesn't seem j	be added to ad	dress what happens if
Missing space between SuggestedRemedy Change to "390.625 MH Also in PICS FS2 and F		5 MHz +/-100pp	m"	Remove PICS item RF2.	Response Status <b>O</b>		

C/ 108 SC 108.5.3.1

RAN, ADEE       Intel Corporation         Comment Type T       Comment Status X         "FEC device" is not well defined.         Annex 109C uses the wording "FEC () implemented in a separate device" which makes much more sense.         Suggested/Remedy         Change "use of a FEC device that is separate from the PCS" to "implementing a FEC sublayer in a device that is separate from the PCS" to "implementing a FEC sublayer in a device that is separate from the PCS" to "implementing a FEC sublayer in a device that is separate from the PCS".         Proposed Response       Response Status O         Cl 109 SC 109.1.1       P124       L8         Quide, Michael       QLogic Corporation         Comment Type E       Comment Status X         Poor English       Suggested/Remedy         Add '0' between 'tamily' and '25Gb/s'       Proposed Response         Proposed Response       Response Status O         Cl 109 SC 109.4.2       P129       L21         Plotek, Michael       QLogic Corporation         Suggested/Remedy       Metanot Type T       Comment Status X         Proposed Response       Response Status O         Cl 109 SC 109.4.2       P129       L21       # 54         Dudek, Michael       QLogic Corporation       Merge 250BASE-CR and 250BASE-CR-S to a single PMD of 250BASE-CR with an optional RS-FEC.         Dude								
"FEC device" is not well defined. Annex 1092 Uses the wording "FEC () implemented in a separate device" which makes much more sense.       Suggested/Remedy Change "use of a FEC device that is separate from the PCS" to "implementing a FEC sublayer in a device that is separate from the PCS".       PMA Functions         Proposed Response       Response Status       O         CI 109       SC 109.1.1       P124       L8       # [-53]         Comment Type       Comment Status X       Poor English       Suggested/Remedy         Suggested/Remedy       Add "of" between "family" and "25Gb/s"       Proposed Response       Response Status       O         Cl 109       SC 109.4.2       P129       L21       # [-54]         Dudek, Michael       QLogic Corporation       Werge 25GBASE-CR-S to a single PMD of 25GBASE-CR with an optimal RS-FEC.         Cl 109       SC 109.4.2       P 129       L 21       # [-54]         Dudek, Michael       QLogic Corporation       Werge 25GBASE-CR and 25GBASE-CR-S to a single PMD of 25GBASE-CR with an optimal RS-FEC.         Dudek, Michael       QLogic Corporation       Werge 25GBASE-CR and 25GBASE-CR-S to a single PMD of 25GBASE-CR with an optimal RS-FEC.         Dudek, Michael       QLogic Corporation       Werge 25GBASE-KR and 25GBASE-KR is to a single PMD of 25GBASE-CR with an optimal RS-FEC.         Dudek, Michael       QLogic Corporation       Werge 25GBASE-KR and 25GBASE-KR is to a si	C/ 109 SC 109.1 RAN, ADEE		—	# i-21			-••	# <u>i-67</u>
much more sense.       SuggestedRemedy         SuggestedRemedy       Change "use of a FEC device that is separate from the PCS".         Proposed Response       Response Status       O         Cl 109 SC 109.1.1       P124       L8       # 1+53         Dudek, Michael       QLogic Corporation       Fujitsu Laboratories of         Comment Type       Comment Status       X         Poor English       SuggestedRemedy         Add "of" between "family" and "25Gb/s"       Proposed Response         Proposed Response       Response Status         Cl 109 SC 109.1.2       P 129       L 21       # 1-54         Dudek, Michael       QLogic Corporation       SuggestedRemedy         Add "of" between "family" and "25Gb/s"       Proposed Response       Response Status       O         Cl 109 SC 109.1.2       P 129       L 21       # 1-54         Dudek, Michael       QLogic Corporation       Merge 25GBASE-KR and 25GBASE-KR-S.       SuggestedRemedy         Merge 25GBASE-KR and 25GBASE-KR-S to a single PMD of 25GBASE-KR with an optional RS-FEC.       Merge 25GBASE-KR and 25GBASE-KR s to a single PMD of 25GBASE-KR with an optional RS-FEC.         Dudek, Michael       QLogic Corporation       Merge 25GBASE-KR and 25GBASE-KR s to a single PMD of 25GBASE-KR with an optional RS-FEC.         Dudek, Michael       QLogic	"FEC device" is not we	ell defined.			51	Comment Status X		
Change "use of a FEC device that is separate from the PCS" to "implementing a FEC sublayer in a device that is separate from the PCS". Proposed Response Response Status O C/ 109 SC 109.1.1 P124 L8 # i-53 C/ 109 SC 109.1.1 P124 L8 # i-53 Comment Type E Comment Status X Poor English SuggestedRemedy Add "of" between "family" and "25Gb/s" Proposed Response Response Status O C/ 109 SC 109.4.2 P 129 L21 # i-54 Dudek, Michael QLogic Corporation C/ 109 SC 109.4.2 P 129 L21 # i-54 Dudek, Michael QLogic Corporation C/ 109 SC 109.4.2 P 129 L21 # i-54 Dudek, Michael QLogic Corporation C/ 109 SC 109.4.2 P 129 L21 # i-54 Dudek, Michael QLogic Corporation C/ 109 SC 109.4.2 P 129 L21 # i-54 Dudek, Michael QLogic Corporation C/ 109 SC 109.4.2 P 129 L21 # i-54 Dudek, Michael QLogic Corporation C/ 109 SC 109.4.2 P 129 L21 # i-54 Dudek, Michael QLogic Corporation C/ 109 SC 109.4.2 P 129 L21 # i-54 Dudek, Michael QLogic Corporation C/ 109 SC 109.4.2 P 129 L21 # i-54 Dudek, Michael QLogic Corporation C/ 109 SC 109.4.2 P 129 L21 # i-54 Dudek, Michael QLogic Corporation C/ 109 SC 109.4.2 P 129 L21 # i-54 Dudek, Michael QLogic Corporation C/ 109 SC 109.4.2 P 129 L21 # i-54 Dudek Michael QLogic Corporation C/ 109 SC 109.4.2 P 129 L21 # i-54 Dudek Michael QLogic Corporation C/ 109 SC 109.4.2 P 129 L21 # i-54 Dudek Michael QLogic Corporation C/ 109 SC 109.4.2 P 129 L21 # i-54 Dudek Michael QLogic Corporation C/ 109 SC 109.4.2 P 129 L21 # i-54 Dudek Michael QLogic Corporation C/ 109 SC 109.4.2 P 129 L21 # i-54 Dudek Michael QLogic Corporation C/ 109 SC 109.4.2 P 129 L21 # i-54 Dudek Michael QLogic Corporation C/ 109 SC 109.4.2 P 129 L21 # i-54 Dudek Michael QLogic Corporation C/ 109 SC 109.4.2 P 129 L21 # i-54 Dudek Michael QLogic Corporation C/ 109 SC 109.4.2 P 129 L21 # i-54 Dudek Michael QLogic Corporation C/ 109 SC 109.4.2 P 129 L21 # i-54 Dudek Michael QLogic Corporation C/ 109 SC 109.4.2 P 129 L21 # i-54 Dudek Michael QLogic Corporation A S-FEC. Merge 25GBASE-KR and 25GBASE-KR ic	much more sense.	wording "FEC () implemente	ed in a separate	device" which makes	,			
Cl 109 SC 109.1.1 P 124 L 8 # $[-53]$ Cl ment Type E Comment Status X Poor English SuggestedRemedy Add "of" between "family" and "25Gb/s" Proposed Response Response Status O Cl 109 SC 109.4.2 P 129 L 21 # $[-54]$ Cl 109 SC 109.4.2 P 129 L 21 # $[-54]$ Cl 109 SC 109.4.2 P 129 L 21 # $[-54]$ Cl 109 SC 109.4.2 P 129 L 21 # $[-54]$ Cl 109 SC 109.4.2 P 129 L 21 # $[-54]$ Cl 109 SC 109.4.2 P 129 L 21 # $[-54]$ Cl 109 SC 109.4.2 P 129 L 21 # $[-54]$ Cl 109 SC 109.4.2 P 129 L 21 # $[-54]$ Cl 109 SC 109.4.2 P 129 L 21 # $[-54]$ Cl 109 SC 109.4.2 P 129 L 21 # $[-54]$ Cl 109 SC 109.4.2 P 129 L 21 # $[-54]$ Cl 109 SC 109.4.2 P 129 L 21 # $[-54]$ Cl 109 SC 109.4.2 P 129 L 21 # $[-54]$ Dudek, Michael QLogic Corporation Comment Type T Comment Status X There is only one input lane. SuggestedRemedy Change to "looping back the input lane to the output lane"	Change "use of a FEC	•		plementing a FEC	Proposed Response	Response Status 0		
CI 109       SC 109.1.1       P 124       L 8       # 1-53         Dudek, Michael       QLogic Corporation       The only difference between 25GBASE-CR and 25GBASE-CR-S is whether RS-FEC is supported or not supported. Defining two PMDs obscure this difference, because we cannot conclude this is the only difference until we completely understand the specifications of two PMDs.         SuggestedRemedy       Add "of" between "family" and "25Gb/s"       If we define RS-FEC as option, it is much clear and we don't need two PMDs.         Cl 109       SC 109.4.2       P 129       L 21       # 1-54         Dudek, Michael       QLogic Corporation       # 1-54         Comment Type       T       Comment Status X         There is only one input lane.       X       Merge 25GBASE-KR and 25GBASE-KR-S to a single PMD of 25GBASE-KR with an optional RS-FEC.         SuggestedRemedy       Change to "looping back the input lane to the output lane"       Response       Response Status O	Proposed Response	Response Status O						# i-31
Dudek, Michael       QLogic Corporation         Comment Type       E       Comment Status       X         Poor English       SuggestedRemedy       Add "of" between "family" and "25Gb/s"       The only difference between 25GBASE-CR and 25GBASE-CR-S is whether RS-FEC is supported or not supported. Defining two PMDs obscure this difference, because we cannot conclude this is the only difference until we completely understand the specifications of two PMDs.         Cl 109       SC 109.4.2       P 129       L 21       # i-54         Cl 109       SC 109.4.2       P 129       L 21       # i-54         Cudek, Michael       QLogic Corporation       Merge 25GBASE-CR and 25GBASE-CR-S to a single PMD of 25GBASE-CR with an optional RS-FEC.         Comment Type       T       Comment Status       X         There is only one input lane.       SuggestedRemedy         Change to "looping back the input lane to the output lane"       Feb 2004       Response					Hidaka, Yasuo	Fujitsu Labora	atories of	
Comment Type       E       Comment Status       X         Poor English       SuggestedRemedy         Add "of" between "family" and "25Gb/s"       Proposed Response       Response Status       O         Cl 109       SC 109.4.2       P 129       L 21       # i-54         Dudek, Michael       QLogic Corporation       We fire SL-FEC.       Merge 25GBASE-KR and 25GBASE-KR sto a single PMD of 25GBASE-KR with an optional RS-FEC.         Comment Type       T       Comment Status       X         There is only one input lane.       SuggestedRemedy         SuggestedRemedy       Change to "looping back the input lane to the output lane"			-	# i-53	51			
comment Type       E       Comment Status       X         Poor English       SuggestedRemedy       Add "of" between "family" and "25Gb/s"         Proposed Response       Response Status       O         Cl       109       SC 109.4.2       P 129       L 21       # [:-54         Cl       109       SC 109.4.2       P 129       L 21       # [:-54         Cl       0ucki, Michael       QLogic Corporation       Werge 25GBASE-CR and 25GBASE-KR-S to a single PMD of 25GBASE-KR with an optional RS-FEC.         Comment Type       T       Comment Status       X         There is only one input lane.       SuggestedRemedy         SuggestedRemedy       Change to "looping back the input lane to the output lane"       Response	Judek, Michael	QLogic Corpo	oration					
Add "of" between "family" and "25Gb/s"         Proposed Response       Response Status         O         Cl 109       SC 109.4.2         P 129       L 21         L 21       # i-54         Dudek, Michael       QLogic Corporation         Comment Type       T         Comment Status       X         There is only one input lane.         SuggestedRemedy         Change to "looping back the input lane to the output lane"		Comment Status X			cannot conclude this i	is the only difference until we o		
Proposed Response       Response Status       O         Proposed Response       Response Status       O         Cl       109       SC 109.4.2       P 129       L 21       # i-54         Dudek, Michael       QLogic Corporation       Merge 25GBASE-KR and 25GBASE-KR-S to a single PMD of 25GBASE-KR with an optional RS-FEC.         Comment Type       T       Comment Status       X         There is only one input lane.       SuggestedRemedy         Change to "looping back the input lane to the output lane"       Fee output lane	SuggestedRemedy Add "of" between "fam	ilv" and "25Gb/s"						wo PMDs.
Merge 25GBASE-CR and 25GBASE-CR-S to a single PMD of 25GBASE-CR with an optional RS-FEC. Merge 25GBASE-CR and 25GBASE-CR-S to a single PMD of 25GBASE-CR with an optional RS-FEC. Merge 25GBASE-CR and 25GBASE-CR-S to a single PMD of 25GBASE-CR with an optional RS-FEC. Merge 25GBASE-CR and 25GBASE-CR-S to a single PMD of 25GBASE-CR with an optional RS-FEC. Merge 25GBASE-CR and 25GBASE-CR-S to a single PMD of 25GBASE-CR with an optional RS-FEC. Merge 25GBASE-CR and 25GBASE-CR-S to a single PMD of 25GBASE-CR with an optional RS-FEC. Merge 25GBASE-CR and 25GBASE-CR-S to a single PMD of 25GBASE-CR with an optional RS-FEC. Merge 25GBASE-CR and 25GBASE-CR-S to a single PMD of 25GBASE-KR with an optional RS-FEC. Merge 25GBASE-CR and 25GBASE-CR-S to a single PMD of 25GBASE-CR with an optional RS-FEC. Merge 25GBASE-CR and 25GBASE-CR-S to a single PMD of 25GBASE-KR with an optional RS-FEC. Merge 25GBASE-CR and 25GBASE-CR-S to a single PMD of 25GBASE-KR with an optional RS-FEC. Merge 25GBASE-CR and 25GBASE-CR-S to a single PMD of 25GBASE-KR with an optional RS-FEC. Merge 25GBASE-CR and		5			SuggestedRemedy			
Cl 109       SC 109.4.2       P 129       L 21       # i-54         Dudek, Michael       QLogic Corporation       QLogic Corporation         Comment Type       T       Comment Status X         There is only one input lane.       SuggestedRemedy         Change to "looping back the input lane to the output lane"       Provide the input lane to the output lane.	Toposed Nesponse				5	and 25GBASE-CR-S to a sing	gle PMD of 25GE	BASE-CR with an
Dudek, Michael       QLogic Corporation         Comment Type       T       Comment Status       X         There is only one input lane.       Change Auto-Negotiation regarding to the optional RS-FEC.         SuggestedRemedy       Change to "looping back the input lane to the output lane"       Change Auto-Negotiation regarding to the optional RS-FEC.	C/ 109 SC 109 4 2	P 129	/ 21	# 1-54	Merge 25GBASE-KR	and 25GBASE-KR-S to a sing	gle PMD of 25GE	BASE-KR with an
Comment Type T Comment Status X Proposed Response Response Status O SuggestedRemedy Change to "looping back the input lane to the output lane"	Dudek, Michael	-		π <u>1</u> -3-4	Change Auto-Negotia			16 interim meeting
Change to "looping back the input lane to the output lane"					Ŭ			eonn mooding.
Proposed Response Response Status <b>0</b>	SuggestedRemedy Change to "looping bac	ck the input lane to the output	t lane"					
	Proposed Response	Response Status <b>0</b>						

C/ 110 SC 110

Dawe, Piers J G       Mellanox Technologie       RAN, ADEE       Intel Corporatio         Comment Type T       Comment Status X       Comment Status X       Receiver electrical characteristics at TP3 for 25GBA shall be the same as those of a single lane of 100GB 92-7 and detailed in 92.8.4.2, 92.8.4.3 and 92.8.4.5°         SuggestedRemedy       SuggestedRemedy       Response Status O         C1 110 SC 110.1       P138       L42       168         Dawe, Piers J G       Mellanox Technologie       Als it would be expensive and pointless to certify that a particular cable fails CA-S or CA-N specs, the non-exclusive way seems better.       Of the parameters summarized in Table 92-7. Receiv not required.         Proposed Response       Response Status O       O         C1 110 SC 110.1       P138       L42       168         Dawe, Piers J G       Mellanox Technologie       Als twould be 92-7 that are retained are ret said in a much simpler way.         SuggestedRemedy       Change the quoted text (the first sentence of the first the interference tolerance defined in 92.8.4.2       The only parts of Table 92-7 that are retained are ret said in a much simpler way.         SuggestedRemedy       Change the quoted text (the first sentence of the first the interference tolerance test parameters to to 25GBASE-CR4, as summarized in Table 92	L 23	# <u>i-25</u>
This is written as if a CA-25G-L cable is not a CA-25G-N cable: "A 25GBASE-CR-S PHY supports operation over cable assembles of types CA-25G-N and CA-25G-N, but not CA-25G-N, but not CA-25G-N, cable too. This should be made consistent.       "Receiver electrical characteristics at TP3 for 25GBA shall be the same as those of a single lane of 100EB 92-7 and detailed in 92.8.4.4, 3 and 92.8.4.6 is about "signaling rate range", which is cover not required.         SuggestedRemedy       As it would be expensive and pointless to certify that a particular cable fails CA-S or CA-N specs, the non-exclusive way seems better. Deleter ", but not CA-25G-L".       Of the parameters summarized in Table 92-7, Receiver hele to the constructions. <i>Proposed Response Response Status</i> O <i>Cl</i> 110       SC 110.1 <i>P</i> 138 <i>L</i> 42       # 1-68         Dawe, Piers J G       Mellanox Technologie       Also, the interference tolerance test parameters in table 92         Comment Type       E       Comment Status X       SuggestedRemedy         Change "supports operation" to "operates", twice.       Proposed Response       Response Status       O <i>Cl</i> 110       SC 110.8.3 <i>P</i> 146 <i>L</i> 19       # 1-55         Dudek, Michael       QLogic Corporation       C/       110       SC 110.8.4.2 <i>P</i> 147         Melitz, Richard       Intel Corporation       C/       110       SC 110.8.4.2 <i>P</i> 147         Melitz, Richard	ation	
supports operation over cable assemblies of types CA-25G-N and CA-25G-S, but not CA-25G-Y.       Supports operation over cable assembly characteristics, provides non-exclusive criteria for each cable type, so a CA-25G-L cable can be a CA-25G-N cable too. This should be made consistent.       Supports operation 's 2.8.4.3 and 92.8.4.6''         SuggestedRemedy       As it would be expensive and pointless to certify that a particular cable fails CA-S or CA-N specs, the non-exclusive way seems better. Delete ', but not CA-25G-L'.       Of the parameters summarized in Table 92-7, Receiver the tatement ' specs, the non-exclusive way seems better.         Delete ', but not CA-25G-L'.       Proposed Response       Response Status O         C/ 110 SC 110.1       P 138       L 42       # 168         Dave, Piers J G       Mellanox Technologie       Mellanox Technologie         Comment Type       E       Comment Status X       D2.1 comment 92 would apply here also:         What do you mean, 'supports operation'' to 'operates', twice.       Proposed Response       Response Status O         C/ 110 SC 110.8.3       P 146       L 19       # 1-55         Dudek, Michael       QLogic Corporation       C/       100 SC 110.8.4.2       P 147         Mellance retuing in the possibility of compliant Tx,'s Rx's and cables not meeting the BER requirements. See presentation Dudek_3by_01_0116       C/       110 SC 110.8.4.2       P 147         Mellicz, Richard       Intel Corporatio       C/		
SuggestedRemedy       As it would be expensive and pointless to certify that a particular cable fails CA-S or CA-N specs, the non-exclusive way seems better.       O         Delete ", but not CA-25G-L".       Proposed Response       Response Status O         CI 110 SC 110.1       P 138       L 42       Interference tolerance are defined explicitly in clause refer to another clause.         As it would be expensive and pointless to certify that a particular cable fails CA-S or CA-N specs, the non-exclusive way seems better.       O         Delete ", but not CA-25G-L".       Proposed Response       Response Status O         CI 110 SC 110.1       P 138       L 42       # Interference tolerance defined in 92.8.4.4 is the interference tolerance test parameters in table 92         Dawe, Piers J G       Mellanox Technologie       Mellanox Technologie       As in the first enterce of the statement" status X         D2.1 comment 52 would apply here also:       What do you mean, "supports operation" to "operates", twice.       SuggestedRemedy         Cl 110 SC 110.8.3       P 146       L 19       # Intel         Proposed Response       Response Status O       O         Cl 110 SC 110.8.3       P 146       L 19       # Intel         Dudek, Michael       Q Logic Corporation       C/ 110       SC 110.8.4.2       P 147         Mellitz, Richard       Intel Corporatio       C/ 110       SC 110.8.4	GBASE-CR4, as .6"	as summarized in Table
specs, the non-exclusive way seems better. Delete ", but not CA-25G-L". Proposed Response Response Status O Cl 110 SC 110.1 P 138 L 42 # [-68 Dawe, Piers J G Mellanox Technologie Comment Type E Comment Status X D2.1 comment 92 would apply here also: What do you mean, "supports operation"? SuggestedRemedy Change "supports operation" to "operates", twice. Proposed Response Response Status O Cl 110 SC 110.8.3 P 146 L 19 # [-55 Dudek, Michael QLogic Corporation Cl 110 SC 110.8.3 P 146 L 19 # [-55 Dudek, Michael QLogic Corporation Cl 110 SC 110.8.3 P 146 L 19 # [-55 Dudek, Michael QLogic Corporation Comment Type TR Comment Status X The specification for the peak pulse to steady stage voltage ratio is more relaxed than the value created in COM for cable testing resulting in the possibility of compliant Tx,'s Rx's and cables not meeting the BER requirements. See presentation Dudek_3by_01_0116		
Cl 110       SC 110.1       P 138       L 42       # [-68]         Dawe, Piers J G       Mellanox Technologie       Mellanox Technologie         Comment Type       E       Comment Status X       Dave, Piers J G       Mellanox Technologie         Comment Type       E       Comment Status X       Dave, Piers J G       Mellanox Technologie         Comment Type       E       Comment Status X       Dave, Piers J G       The only parts of Table 92-7 that are retained are returned are retured are retured are returned are returned are returned are returne		
CI 110       SC 110.1       P138       L42       # [-68       Iane of 100GBASE-CR4, as summarized in Table 92         Dawe, Piers J G       Mellanox Technologie       Iane of 100GBASE-CR4, as summarized in Table 92         Comment Type       E       Comment Status X       Dave, Piers J G       The only parts of Table 92-7 that are retained are returned a	92-8 are modifie	fied for the no-FEC and
Comment Type       E       Comment Status       X         D2.1 comment 92 would apply here also:       What do you mean, "supports operation"?         SuggestedRemedy       Change "supports operation" to "operates", twice.         Proposed Response       Response Status       O         Cl       110       SC 110.8.3       P 146       L 19       # i-55         Dudek, Michael       QLogic Corporation       O       Cl       110       SC 110.8.4.2       P 147         Comment Type       TR       Comment Status       X       Cl       110       SC 110.8.4.2       P 147         Mellitz, Richard       Intel Corporation       Cl       110       SC 110.8.4.2       P 147         Mellitz, Richard       Intel Corporation       Comment Status       X       Regarding Table 110-5         Adjusting Fitted insertion loss coefficients are not prace       Adjusting Fitted insertion loss coefficients are not prace		
What do you mean, "supports operation"?       SuggestedRemedy         Change "supports operation" to "operates", twice.       Change "supports operation" to "operates", twice.         Proposed Response       Response Status       O         Cl 110       SC 110.8.3       P 146       L 19       # i-55         Cudek, Michael       QLogic Corporation       O       Cl 110       SC 110.8.4.2       P 147         Comment Type       TR       Comment Status       X       The specification for the peak pulse to steady stage voltage ratio is more relaxed than the value created in COM for cable testing resulting in the possibility of compliant Tx,'s Rx's and cables not meeting the BER requirements. See presentation Dudek_3by_01_0116       Cl 110       SC 110.8.4.2       P 147	return loss spec	cifications. This can be
SuggestedRemedy         Change "supports operation" to "operates", twice.         Proposed Response       Response Status         O       Image: Response Status         C/ 110       SC 110.8.3         P 146       L 19         Lips       Image: Im		
Change "supports operation" to "operates", twice.       "Receiver electrical characteristics for 25GBASE-CR         Proposed Response       Response Status       O         Cl 110       SC 110.8.3       P 146       L 19       # i-55         Dudek, Michael       QLogic Corporation       Intel Corporation         Comment Type       TR       Comment Status       X         The specification for the peak pulse to steady stage voltage ratio is more relaxed than the value created in COM for cable testing resulting in the possibility of compliant Tx,'s Rx's and cables not meeting the BER requirements. See presentation Dudek_3by_01_0116       Cl 110       SC 110.8.4.2       P 147	irst paragraph of	of 110.8.4) to read:
Proposed Response       Response Status       O         Cl 110       SC 110.8.3       P 146       L 19       # i-55         Dudek, Michael       QLogic Corporation       Intel Corporation         Comment Type       TR       Comment Status       X         The specification for the peak pulse to steady stage voltage ratio is more relaxed than the value created in COM for cable testing resulting in the possibility of compliant Tx,'s Rx's and cables not meeting the BER requirements. See presentation Dudek_3by_01_0116       Proposed Response       Response Status       O		
Cl 110       SC 110.8.3       P 146       L 19       # i-55         Dudek, Michael       QLogic Corporation       Cl 110       SC 110.8.4.2       P 147         Comment Type       TR       Comment Status X       Intel Corporation         Comment Type       TR       Comment Status X       Intel Corporation         Comment Type       TR       Comment Status X       Intel Corporation         Comment Type       TR       Comment Status X       Regarding Table 110-5         Adjusting Fitted insertion loss coefficients are not practice       Adjusting Fitted insertion loss coefficients are not practice	ents specified in	n 92.8.4.2 and 92.8.4.3.
Dudek, Michael       QLogic Corporation       C/ 110       SC 110.8.4.2       P 147         Comment Type       TR       Comment Status X       Intel Corporation         The specification for the peak pulse to steady stage voltage ratio is more relaxed than the value created in COM for cable testing resulting in the possibility of compliant Tx,'s Rx's and cables not meeting the BER requirements. See presentation Dudek_3by_01_0116       C/ 110       SC 110.8.4.2       P 147         Mellitz, Richard       Intel Corporation       Intel Corporation       Comment Type       TR       Comment Status X		
Comment Type       TR       Comment Status       X       Mellitz, Richard       Intel Corporation         The specification for the peak pulse to steady stage voltage ratio is more relaxed than the value created in COM for cable testing resulting in the possibility of compliant Tx,'s Rx's and cables not meeting the BER requirements. See presentation Dudek_3by_01_0116       Mellitz, Richard       Intel Corporation		
Comment Type         TR         Comment Status         X           The specification for the peak pulse to steady stage voltage ratio is more relaxed than the value created in COM for cable testing resulting in the possibility of compliant Tx, 's Rx's and cables not meeting the BER requirements. See presentation Dudek_3by_01_0116         Comment Type         TR         Comment Status         X	L 19	# i-36
value created in COM for cable testing resulting in the possibility of compliant Tx,'s Rx's and cables not meeting the BER requirements. See presentation Dudek_3by_01_0116 Adjusting Fitted insertion loss coefficients are not pra	allon	
Suggested Remedy Suggested Remedy	practical when p	performing an RITT test
ougosteartenedy		
after 92.8.3.9 add "except that the Linear fit pulse peak (min) shall be 0.49*Vf" Also Remove Fitted insertion loss coefficients row.		
change the PICS TC17 to match. Proposed Response Response Status O		

C/ 110 SC 110.8.4.2

C/ 110         SC 110.8.4.2         P 147         L 23         # i-37           Mellitz, Richard         Intel Corporation	C/         110         SC         110.8.4.2         P 147         L 47         # i-38           Mellitz, Richard         Intel Corporation         Intel Corporation         Intel Corporation
Comment Type <b>TR</b> Comment Status <b>X</b> Regarding Table 110-5 Approximate loss for stressing the receiver is not sufficient.	Comment Type TR Comment Status X Regarding Table 110-6 Adjusting Fitted insertion loss coefficients are not practical when performing an RITT test
SuggestedRemedy	SuggestedRemedy
change row to "Minimum fitted loss at 12.89 GHz/b" Test 1 case is NA Test 2 case is	Remove Fitted insertion loss coefficients row.
29.44"	Proposed Response Response Status <b>O</b>
add row to "Maximum fitted loss at 12.89 GHz/b" Test 1 case is 14.8 Test 2 case is NA"	
Proposed Response Response Status <b>O</b>	
C/ 110 SC 110.8.4.2 P 147 L 44 # i-105	C/         110         SC         110.8.4.2         P 147         L 50         # i-39           Mellitz, Richard         Intel Corporation
ealey, Adam Avago Technologies	Comment Type TR Comment Status X
amment Turpa TD Comment Statue V	Regarding Table 110-6
Table 110-6 requires the block error ratio (defined as the number of corrected and	Approximate loss for stressing the receiver is not sufficient.
Table 110-6 requires the block error ratio (defined as the number of corrected and uncorrected blocks divided by the total number of blocks) to be less than 2.1E-5. However, to meet the frame loss ratio objective, the number of uncorrected blocks divided by the total number of blocks is required to be 4.7E-10 (as calculated in http://www.ieee802.org/3/by/public/adhoc/architecture/ran_020415_25GE_adhoc.pdf). The requirement in Table 110-6 does not seem to be stringent enough since 1 uncorrected block for every 2.1E5 blocks is sufficient to pass the test but does not necessarily demonstrate that the frame loss ratio objective is met.	Approximate loss for stressing the receiver is not sufficient. SuggestedRemedy change row to "Minimum fitted loss at 12.89 GHz^b" Test 1 case is NA Test 2 case is 23.44" add row to "Maximum fitted loss at 12.89 GHz^b" Test 1 case is 14.8 Test 2 case is NA"
Table 110-6 requires the block error ratio (defined as the number of corrected and uncorrected blocks divided by the total number of blocks) to be less than 2.1E-5. However, to meet the frame loss ratio objective, the number of uncorrected blocks divided by the total number of blocks is required to be 4.7E-10 (as calculated in http://www.ieee802.org/3/by/public/adhoc/architecture/ran_020415_25GE_adhoc.pdf). The requirement in Table 110-6 does not seem to be stringent enough since 1 uncorrected block for every 2.1E5 blocks is sufficient to pass the test but does not necessarily demonstrate that the frame loss ratio objective is met.	Approximate loss for stressing the receiver is not sufficient. SuggestedRemedy change row to "Minimum fitted loss at 12.89 GHz^b" Test 1 case is NA Test 2 case is 23.44" add row to "Maximum fitted loss at 12.89 GHz^b" Test 1 case is 14.8 Test 2 case is NA" Proposed Response Response Status <b>0</b>
Table 110-6 requires the block error ratio (defined as the number of corrected and uncorrected blocks divided by the total number of blocks) to be less than 2.1E-5. However, to meet the frame loss ratio objective, the number of uncorrected blocks divided by the total number of blocks is required to be 4.7E-10 (as calculated in http://www.ieee802.org/3/by/public/adhoc/architecture/ran_020415_25GE_adhoc.pdf). The requirement in Table 110-6 does not seem to be stringent enough since 1 uncorrected block for every 2.1E5 blocks is sufficient to pass the test but does not necessarily demonstrate that the frame loss ratio objective is met. <i>uggestedRemedy</i> Require number of uncorrected blocks to be zero unless the test duration is such that ratio of uncorrected blocks to the total number of blocks received can be verified to be no	Approximate loss for stressing the receiver is not sufficient.         SuggestedRemedy         change row to "Minimum fitted loss at 12.89 GHz^b" Test 1 case is NA Test 2 case is 23.44"         add row to "Maximum fitted loss at 12.89 GHz^b" Test 1 case is 14.8 Test 2 case is NA"         Proposed Response       Response Status         C/ 110       SC 110.8.4.2       P 148       L 14       # i-70
Table 110-6 requires the block error ratio (defined as the number of corrected and uncorrected blocks divided by the total number of blocks) to be less than 2.1E-5. However, to meet the frame loss ratio objective, the number of uncorrected blocks divided by the total number of blocks is required to be 4.7E-10 (as calculated in http://www.ieee802.org/3/by/public/adhoc/architecture/ran_020415_25GE_adhoc.pdf). The requirement in Table 110-6 does not seem to be stringent enough since 1 uncorrected block for every 2.1E5 blocks is sufficient to pass the test but does not necessarily demonstrate that the frame loss ratio objective is met.	Approximate loss for stressing the receiver is not sufficient.         SuggestedRemedy         change row to "Minimum fitted loss at 12.89 GHz^b" Test 1 case is NA Test 2 case is 23.44"         add row to "Maximum fitted loss at 12.89 GHz^b" Test 1 case is 14.8 Test 2 case is NA"         Proposed Response       Response Status         C/ 110       SC 110.8.4.2       P 148       L 14       # ji-70         Dawe, Piers J G       Mellanox Technologie
Table 110-6 requires the block error ratio (defined as the number of corrected and uncorrected blocks divided by the total number of blocks) to be less than 2.1E-5. However, to meet the frame loss ratio objective, the number of uncorrected blocks divided by the total number of blocks is required to be 4.7E-10 (as calculated in http://www.ieee802.org/3/by/public/adhoc/architecture/ran_020415_25GE_adhoc.pdf). The requirement in Table 110-6 does not seem to be stringent enough since 1 uncorrected block for every 2.1E5 blocks is sufficient to pass the test but does not necessarily demonstrate that the frame loss ratio objective is met. SuggestedRemedy Require number of uncorrected blocks to be zero unless the test duration is such that ratio of uncorrected blocks to the total number of blocks received can be verified to be no greater than 4.7E-10. Similar changes are required to 111.8.3.1.	Approximate loss for stressing the receiver is not sufficient.         SuggestedRemedy         change row to "Minimum fitted loss at 12.89 GHz^b" Test 1 case is NA Test 2 case is 23.44"         add row to "Maximum fitted loss at 12.89 GHz^b" Test 1 case is 14.8 Test 2 case is NA"         Proposed Response       Response Status         C/ 110       SC 110.8.4.2       P 148       L 14       # [i-70]         Dawe, Piers J G       Mellanox Technologie         Comment Type       E       Comment Status       X         Should not have a whole paragraph in a table footnote.       Should not define the same thing
Table 110-6 requires the block error ratio (defined as the number of corrected and uncorrected blocks divided by the total number of blocks) to be less than 2.1E-5. However, to meet the frame loss ratio objective, the number of uncorrected blocks divided by the total number of blocks is required to be 4.7E-10 (as calculated in http://www.ieee802.org/3/by/public/adhoc/architecture/ran_020415_25GE_adhoc.pdf). The requirement in Table 110-6 does not seem to be stringent enough since 1 uncorrected block for every 2.1E5 blocks is sufficient to pass the test but does not necessarily demonstrate that the frame loss ratio objective is met. SuggestedRemedy Require number of uncorrected blocks to be zero unless the test duration is such that ratio of uncorrected blocks to the total number of blocks received can be verified to be no greater than 4.7E-10. Similar changes are required to 111.8.3.1.	Approximate loss for stressing the receiver is not sufficient.         SuggestedRemedy         change row to "Minimum fitted loss at 12.89 GHz^b" Test 1 case is NA Test 2 case is 23.44"         add row to "Maximum fitted loss at 12.89 GHz^b" Test 1 case is 14.8 Test 2 case is NA"         Proposed Response       Response Status         C/ 110       SC 110.8.4.2       P 148       L 14       # [-70]         Dawe, Piers J G       Mellanox Technologie         Comment Type       E       Comment Status       X         Should not have a whole paragraph in a table footnote. Should not define the same thing twice.       Should not define the same thing twice.

C/ 110 SC 110.8.4.2

C/ 110 SC 110.8.4.2	P 148	L 28	# i-40	C/ 110 SC 110.8.4.2.1	P 148 L 51	# i <u>-72</u>
lellitz, Richard	Intel Corporation	on		Dawe, Piers J G	Mellanox Technologie	
Comment Type TR	Comment Status X			Comment Type T Com	ment Status X	
Regarding Table 110-7 Adjusting Fitted inserti	7 on loss coefficients are not pra	ctical when pe	rforming an RITT test.	Measuring a waveform at the or scope with a small remote head	utput of a pattern generator isn't p d.	ractical unless you hav
SuggestedRemedy				SuggestedRemedy		
Remove Fitted insertio	n loss coefficients row.				loss instrument-grade cable) betw	
Proposed Response	Response Status O				njection" and PGC/Tx test reference onse Status <b>O</b>	ce, in figs 110-3 and 11
C/ 110 SC 110.8.4.2	P 148 Intel Corporatio	L <b>32</b>	# [i-41	C/ 110 SC 110.8.4.2.1	P149 L6	# i-73
	Comment Status X	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Dawe, Piers J G	Mellanox Technologie	
Comment Type TR Regarding Table 110-7				Comment Type E Com	ment Status X	
Approximate loss for s	tressing the receiver is not suf	ficient.			nel includes both sides of the conr mention the connector on the left.	
SuggestedRemedy change row to "Minimu 22.48"	Im fitted loss at 12.89 GHz^b"	Test 1 case is	NA Test 2 case is	SuggestedRemedy Move the left dashed line called	I "MDI" to align with the join inside	the connector.
	fitted loss at 12.89 GHz^b" Tes	st 1 case is 14.	8 Test 2 case is NA"	Proposed Response Respo	onse Status <b>O</b>	
Proposed Response	Response Status 0			1.0000		
C/ 110 SC 110.8.4.2	2.1 <i>P</i> 148	L 51	# i-71	C/ 110 SC 110.8.4.2.1 Mellitz, Richard	P 149 L 8 Intel Corporation	# i-45
Dawe, Piers J G	Mellanox Tech	nologie			ment Status X	
Comment Type E	Comment Status X			"Additive host board loss" is no		
•	ame because it doesn't make r or is disconnected when the tes			SuggestedRemedy		
generator/hoise injecto			ang measured.	Change to "Additional frequenc	y dependant loss"	
SuggestedDemedu						
	annel so we could call it CP1	(calibration po	int 1) or port 1 or just	Proposed Response Respo	onse Status <b>O</b>	
	nannel, so we could call it CP1 t" or "Tx calibration point"	(calibration po	int 1) or port 1, or just	Proposed Response Respo	onse Status <b>O</b>	

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

C/ 110 SC 110.8.4.2.1 Page 13 of 22 2015-12-26 1:21:13 AM

C/ 110 SC 110.8.4.2.1 P 149 L 8 # [-74	Cl 110 SC 110.8.4.2.2 P 149 L 25 # <u>i-43</u>
Dawe, Piers J G Mellanox Technologie	Mellitz, Richard Intel Corporation
Comment Type       T       Comment Status       X         Figures 110-3 and 110-4 show "Additive host board loss" while 110.8.4.2.2 item c says "connecting path" - we should use the same name for something, every time. Do not recognise "additive host board", do not see loss as additive - the signal power is divided, the number of dBm is subtracted. Figure 83E-15, Example module stressed input test, calls it "Frequency-dependent attenuator" and "frequency-dependent attenuation". A pair of wideband SMA 3 dB attenuators could be seen as "Additive loss" - but they would not have the desired effect.         The meaning of "host board" is unclear - is it a kind of board I must use? What kind?         SuggestedRemedy         Rename to "Frequency-dependent attenuator" or "Frequency-dependent attenuation", both figures and text. Explain that this is intended to emulate the difference between the MCB loss and the loss in a host.	Meiniz, Richard       Intel Colporation         Comment Type       TR       Comment Status X         The transmitter test fixture may include some of the required additional loss.         SuggestedRemedy       Change b) to: A cable assembly test fixture (see 110B.1.2 and 92.11.2) or equivalent         Proposed Response       Response Status O         C/ 110       SC 110.8.4.2.2       P 149       L 26       # [-56]         Dudek, Michael       QLogic Corporation       Comment Type       T       Comment Status X         It would be good to explicitly call out the "additive host board loss"       T       Comment Type       T
Proposed Response       Response Status       O         Cl 110       SC 110.8.4.2.1       P 149       L 9       # i-75         Dawe, Piers J G       Mellanox Technologie	SuggestedRemedy         Add " which includes the additive host board loss of approximately 7dB at Nyquist" to the end of bullet c).         Proposed Response       Response Status       O
Comment Type E Comment Status X Pattern Generator SuggestedRemedy Pattern generator Proposed Response Response Status O	C/ 110       SC 110.8.4.2.2       P 149       L 26       # i-44         Mellitz, Richard       Intel Corporation       Intel Corporation         Comment Type       TR       Comment Status       X         "connecting path" seems unclear.       "       "
Cl 110       SC 110.8.4.2.2       P 149       L 22       # i-42         Mellitz, Richard       Intel Corporation       Intel Corporation         Comment Type       TR       Comment Status       X         Meeting COM is not sufficient wording and use for test case 1 in not clear       SuggestedRemedy         Change a) to: A cable assembly (see 110.10) that meets the cable assembly COM specified for the test being performed and is within 1 dB of IL_camax in table 110A-1 for test case 2 and IL_camin in table 110A-1 for test case 1.	SuggestedRemedy Change c) to: A frequnecy dependant connection path from the pattern generator to the CA test fixture. Proposed Response Response Status <b>O</b>
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 U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line

C/ 110 SC 110.8.4.2.2 Page 14 of 22 2015-12-26 1:21:13 AM

C/ 110 SC 110.8.4.2.2 Dawe, Piers J G	P <b>149</b> Mellanox Tech	L <b>26</b> nologie	# i-76	<i>Cl</i> <b>110</b> <i>SC</i> <b>110.8.4</b> . Mellitz, Richard	2.3 P 149 Intel Corpor	L 35 ration	# [i-46
Comment Type E Co from the pattern generator to	mment Status X the cable assembly test	fixture.		Comment Type TR "Additive host board le	Comment Status X	ı	
SuggestedRemedy from PGC to the cable assen	nbly test fixture.			SuggestedRemedy Change to "Additional	frequency dependant loss"		
Proposed Response Res	sponse Status <b>O</b>			Proposed Response	Response Status O		
C/ 110 SC 110.8.4.2.3 Dawe, Piers J G	P <b>149</b> Mellanox Tech	L 33 nologie	# i-77	<i>Cl</i> <b>110</b> <i>SC</i> <b>110.8.4.</b> Mellitz, Richard	2.3 P 149 Intel Corpor	L 44	# <u>i</u> -47
Comment Type E Co In Figure 110-3, the same po there is a point called Tx and			nce. In Figure 110-4,	Comment Type TR Adjusting Fitted insert Use fitted loss instead	Comment Status X ion loss coefficients is not pr I.	ractical when setti	ing up an RITT test.
SuggestedRemedy Make the figures consistent, "Tx reference point" and "Rx Proposed Response Res				using the fitting proce	th: ss s of the signal path betwe dure in 92.10.2, shall be at le appropriate for the test bein	east the values in	
C/ 110 SC 110.8.4.2.3 Dawe, Piers J G	P <b>149</b> Mellanox Tech	L <b>34</b> nologie	# [i-78	Proposed Response	Response Status <b>O</b>		
Comment Type E Co In Figure 110-4, there is a po associated with a receiver, ex			n't seem to be				
SuggestedRemedy		÷					
Call it TP4, as in Figure 110-	2. Or CP2 or port 2						

C/ 110 SC 110.8.4.2.3

C/ 110         SC 110.8.4.2.3         P 149         L 53         # i-66           RAN, ADEE         Intel Corporation	C/         110         SC         110.8.4.2.3         P 150         L 3         # i-79           Dawe, Piers J G         Mellanox Technologie
Comment Type <b>T</b> Comment Status <b>X</b> We have two sets of parameters for package model, and it is not specified which one should be used when calculating COM of the test channel;	Comment Type         T         Comment Status         X           This recipe is disorganised: one would not inject noise, measure SNDR, calculate COM then iterate the noise injected, measurement and calculation; one would calculate COM, iterate the noise TO BE injected, then inject it.
This should not depend on the DUT construction, which is a "black box". Similarly, the channel signal path is defined to include S(HOSP), which is the reference board model, regardless of the actual board in the DUT. I think using the larger package option should be used for the high loss case (test 2); if the DUT has a long package it will be adequate, and if it has a short package then it should not be penalized (by possibly adding more noise to compensate for lower loss). For similar reasoning, the shorter package should be used for the low loss case (test 1), Comment also applies to clause 111.	SuggestedRemedy         Re-order:         c) SNDR of the pattern generator after noise injection (see 110.8.4.2.4) is measured at the PGC using the procedure in 92.8.3.7. The resulting value is used as SNRTX in calculation of COM. The level of noise injected is adjusted until the required COM is achieved for the test.         to:         c) The value of SNRTX that brings COM to the required value for the test is found by calculation. Noise is injected (see 110.8.4.2.4) until the value of SNDR, measured at PGC using the procedure in 92.8.3.7, equals that value of SNRTX.
lggestedRemedy	Proposed Response Response Status <b>O</b>
Specify, either in "test channel calibration" text or in the tables, using "test 1" value from table 110-10 for test 1 (low loss channel) and "test 2" value from table 110-10 for test 2 (high loss channel). Apply equivalent changes in clause 111. roposed Response Response Status <b>O</b>	Cl 110       SC 110.8.4.2.3       P 150       L 5       # i-80         Dawe, Piers J G       Mellanox Technologie       Mellanox Technologie         Comment Type       TR       Comment Status       X         This recipe needs to be brought back to reality, so the implementer has an idea if he has done it right or not, and to guard against mathematically valid but unrepresentative test setups.       SuggestedRemedy         Give a max/min range of SNDRs and/or RMS injected noises at PGC for each of the 6 tests. Are some of them the same?       Proposed Response         Proposed Response       Response Status       O

C/ 110 SC 110.8.4.2.3

· · · · · · · · · · · · · · · · · · ·	·
C/         110         SC         110.8.4.2.3         P 150         L 6         # i-48           Mellitz, Richard         Intel Corporation         Intel Corporation         Intel Corporation         Intel Corporation	C/         110         SC         110.8.4.2.3         P 150         L 8         # <u>i-50</u> Mellitz, Richard         Intel Corporation         Intel Corporation         Intel Corporation         Intel Corporation
Comment Type         TR         Comment Status         X           The fact that a noise combiner/spitter is required at the test point PGC suggest that there will always an intruemented or the like drive. Hence the d) is not reflective of practice.           SuggestedRemedy	Comment Type TR Comment Status X The filter Ht (f) defined by Equation (92-22) is non-casual and not representiative of transiston times slower that 15 ps. SuggestedRemedy
d) The transmitter device package model S (tp) is omitted from the calculation of S_pProposed ResponseResponse StatusO	add equation for h_t(f) H_t=105./(f.^4*(k*tr)^4 - f.^3*(k*tr)^3*10i - 45*f.^2*(k*tr)^2 + f*(k*tr)*105i + 105) where k = 8.937-8E-09*(tr*1000)^4, f in GHz and tr in ns
C/ 110 SC 110.8.4.2.3 P 150 L 7 # [-57	Proposed Response Response Status <b>O</b>
Dudek, Michael       QLogic Corporation         Comment Type       TR       Comment Status X         The equation 92-22 does not produce an equivalent Tx input risetime to the channel to that measured at PGC (and used as input to equation 92-22). (See dudek_3by_02_0116) (an earlier version presented to the ad-hoc is dudek_3by_12-2-15). For slower risetimes measured at PGC a faster risetime is input to the channel resulting in more noise being added in this test than should be.         If the Tx is not assumed to have a good termination and therefore the risetime is not compensated the test transmitter could input a significantly faster risetime to the channel in the Interference tolerance test than is used to calibrate the TxSNDR using COM resulting in an under-stressed Interference tolerance test.         When measuring the risetime at PGC the value obtained is slightly different depending whether the square wave test pattern or PRBS9 pattern is used. It would be good to remove this inconsistency and as the PRBS9 pattern is already required for measuring TxSNDR on this waveform the PRBS9 pattern is the best one to choose.	Cl 110       SC 110.8.4.2.3       P 150       L 8       # [i-49]         Mellitz, Richard       Intel Corporation         Comment Type       TR       Comment Status X         The filter Ht (f) defined by Equation (92-22) is non-casual and not representiative of transiston times slower that 15 ps.         SuggestedRemedy         Instead, the voltage transfer function is multiplied by the filter Ht(f) defined by Equation (110-xx) where Tr is the 20% to 80% transition time (see 86A.5.3.3) of the signal as measuredat the PGC reference point.         Proposed Response       Response Status       O
SuggestedRemedy Remove the option of not compensating for the risetime of the test transmitter. Create a new local equation provided by Dudek_3by_02_0116 and refer to it instead of equation 92-	

new local equation provided by Dudek\_3by\_02\_0116 and refer to it instead of equation 92-22. Final paragraph to be "The transmitter device package model S(tp) is omitted from the calculation of Sp. Instead, the voltage transfer function is multiplied by the filter Ht(f) defined by Equation (New) where Tr is the 20% to 80% transition time (see 86A.5.3.3) of the signal as measured at the PGC reference point using the PRBS9 pattern."

Proposed Response Response Status **0** 

C/ 110 SC 110.8.4.2.3

C/ 110         SC 110.8.4.2.3         P 150         L 10         # i-24           RAN, ADEE         Intel Corporation	Cl         110         SC         110.8.4.2.4         P 150         L 13         # i-51           RAN, ADEE         Intel Corporation         Intel Corporation         Intel Corporation         Intel Corporation
<ul> <li>Comment Type TR Comment Status X</li> <li>In item d), "T_r is the 20% to 80% transition time (see 86A.5.3.3) of the signal as measured at TP0a".</li> <li>86A.5.3.3 specifies 10 GBaud measurement and includes a 12 GHz LPF, which would result in a an excessively high T_r. An exception should be made for to use 33 GHz filters.</li> </ul>	Comment Type       TR       Comment Status       X         The receiver interference tolerance test method in clause 110 is quite different from the corresponding method in clause 111 (which is based on clause 93) in the specification of jitter in the transmitter.         It is desirable to be able to use a compliant 25GBASE-KR device as a transmitter in this
Note that this comment also applies to similar text in 92.8.4.4.3 and 93A.2 in the base standard.	test, which is possible in the clause 111 test. This will enable using the required test patterns and equalizer training and resemble a real-life scenario. However, the jitter requirements in clause 110 maybe impossible to meet in compliant 25GBASE-KR devices.
SuggestedRemedy Change the text in item d from "T_r is the 20% to 80% transition time (see 86A.5.3.3) of the signal as measured at TP0a" to "T_r is the 20% to 80% transition time of the signal as measured at TP0a. Transition time is measured as defined in 86A.5.3.3 with the exception that the filter bandwidth is 33 GHz instead of 12 GHz."	It is suggested to align the test methods in the two clauses. SuggestedRemedy A detailed presentation will be supplied. Proposed Response Response Status <b>O</b>
Proposed Response Response Status O	C/     110     SC     110.8.4.2.4     P 150     L 20     # i-82       Dawe, Piers J G     Mellanox Technologie
C/         110         SC         110.8.4.2.4         P 150         L 12         # [i-81           Dawe, Piers J G         Mellanox Technologie         Mellanox Technologie         Image: State	Comment Type <b>T</b> Comment Status <b>X</b> This signal isn't data (see Clause 4), it's some form of scrambled idle or PRBS. In line 10 above we don't call it "data signal".
Comment Type <b>T</b> Comment Status <b>X</b> In my mind, a pattern generator and a noise source are two separate things; even they can be bought in the same box, they need not be.	SuggestedRemedy Delete "data".
SuggestedRemedy Change subclause title to "Pattern generator and noise injection". Change the last sentence from: The pattern generator shall inject broadband noise on the data signal, with noise level set according to step c) in 110.8.4.2.3. to Broadband noise is added to the data signal before PGC, with noise level set according to step c) in 110.8.4.2.3.	Proposed Response Response Status O
Proposed Response Response Status O	

C/ 110 SC 110.8.4.2.4 Page 18 of 22 2015-12-26 1:21:14 AM

C/         110         SC         110.8.4.3         P 150         L 41         # i-29           RAN, ADEE         Intel Corporation	C/         110         SC         110.10         P 151         L 48         # <u>li-83</u> Dawe, Piers J G         Mellanox Technologie
Comment Type T Comment Status X	Comment Type T Comment Status X
Jitter tolerance is measured "with the channel and error requirement of test 2 as specified in" referring to the corresponding receiver interference tolerance test.	"achievable cable length of at least 5 m" excludes shorter cables. Table 110C-1 footnote defines achievable length by "It may be possible to construct compliant cable assemblies longer than indicated".
The "channel" defined in the RITT tables has a required maximum COM (to be achieved by adding noise).	SuggestedRemedy Delete "at least" three times here.
This requirement should not apply for the jitter test, since we assume the same physical channel is used without adding noise. But it is not stated clearly for the channel - the text only says that noise is not injected at the pattern generator.	In Table 110C-1 footnote a, insert before "It may be possible", Shorter cable assemblies may be constructed, subject to 110.10 (in particular, the minimum insertion loss requirement).
Similar issues exists in 111.8.3.2.	Proposed Response Response Status O
uggestedRemedy	
Preferably, change "with the channel and error requirement of test 2" to "with a channel meeting the fitted insertion loss of test 2 and the error requirement", three times in this	C/         110         SC         110.10         P 151         L 50         #         i-84           Dawe, Piers J G         Mellanox Technologie         Mellanox Techn
paragraph. The result in the first case would be:	Comment Type T Comment Status X
"Jitter tolerance in RS-FEC mode is measured with a channel meeting the fitted insertion loss of test 2 and the error requirement as specified in Table 110-5."	CA-25G-S isn't interesting enough: CA-25G-L gives a thinner cable, CA-25G-N gives lowe latency, the extra length that CA-25G-S offers over CA-25G-N doesn't have enough Broad
Alternative possible remedies:	Market Potential because it doesn't get you anywhere in particular with respect to the size of equipment racks.
Alternative possible remedies: 1. Insert at the end of the first paragraph of 110.8.4.3: "The channels used for jitter tolerance measurement are not required to meet the maximum COM specified."	Market Potential because it doesn't get you anywhere in particular with respect to the size
1. Insert at the end of the first paragraph of 110.8.4.3: "The channels used for jitter	Market Potential because it doesn't get you anywhere in particular with respect to the size of equipment racks. SuggestedRemedy
<ol> <li>Insert at the end of the first paragraph of 110.8.4.3: "The channels used for jitter tolerance measurement are not required to meet the maximum COM specified."</li> <li>Remove the COM-related rows from the tables and instead add text in 110.8.4.2.3 (Test</li> </ol>	Market Potential because it doesn't get you anywhere in particular with respect to the size of equipment racks. SuggestedRemedy Consider moving the CA-25G-S specs to an informative annex.
<ol> <li>Insert at the end of the first paragraph of 110.8.4.3: "The channels used for jitter tolerance measurement are not required to meet the maximum COM specified."</li> <li>Remove the COM-related rows from the tables and instead add text in 110.8.4.2.3 (Test channel calibration) specifying the target COM for each case.</li> <li>The chosen remedy should also be applied similarly in 111.8.3.2.</li> </ol>	Market Potential because it doesn't get you anywhere in particular with respect to the size of equipment racks. SuggestedRemedy Consider moving the CA-25G-S specs to an informative annex. Proposed Response Response Status <b>O</b>
<ol> <li>Insert at the end of the first paragraph of 110.8.4.3: "The channels used for jitter tolerance measurement are not required to meet the maximum COM specified."</li> <li>Remove the COM-related rows from the tables and instead add text in 110.8.4.2.3 (Test channel calibration) specifying the target COM for each case.</li> <li>The chosen remedy should also be applied similarly in 111.8.3.2.</li> </ol>	Market Potential because it doesn't get you anywhere in particular with respect to the size of equipment racks.         SuggestedRemedy         Consider moving the CA-25G-S specs to an informative annex.         Proposed Response       Response Status         O         C/ 110       SC 110.10       P 151       L 52       # 1-85
<ol> <li>Insert at the end of the first paragraph of 110.8.4.3: "The channels used for jitter tolerance measurement are not required to meet the maximum COM specified."</li> <li>Remove the COM-related rows from the tables and instead add text in 110.8.4.2.3 (Test channel calibration) specifying the target COM for each case.</li> <li>The chosen remedy should also be applied similarly in 111.8.3.2.</li> </ol>	Market Potential because it doesn't get you anywhere in particular with respect to the size of equipment racks.         SuggestedRemedy         Consider moving the CA-25G-S specs to an informative annex.         Proposed Response       Response Status         O         Cl 110       SC 110.10       P 151       L 52       # [-85]         Dawe, Piers J G       Mellanox Technologie         Comment Type       T       Comment Status       X         If we keep three cable grades, the identifiers N S L will cause confusion for the foreseeabl future. S has to be the short one, right? N is what, normal? So it's the middle one?         We should not insist on naming cable types according to FEC: that's not a cable function
<ol> <li>Insert at the end of the first paragraph of 110.8.4.3: "The channels used for jitter tolerance measurement are not required to meet the maximum COM specified."</li> <li>Remove the COM-related rows from the tables and instead add text in 110.8.4.2.3 (Test channel calibration) specifying the target COM for each case.</li> <li>The chosen remedy should also be applied similarly in 111.8.3.2.</li> </ol>	Market Potential because it doesn't get you anywhere in particular with respect to the size of equipment racks.         SuggestedRemedy         Consider moving the CA-25G-S specs to an informative annex.         Proposed Response       Response Status         O         Cl 110       SC 110.10       P 151       L 52       # i-85         Dawe, Piers J G       Mellanox Technologie         Comment Type       T       Comment Status       X         If we keep three cable grades, the identifiers N S L will cause confusion for the foreseeabl future. S has to be the short one, right? N is what, normal? So it's the middle one?         We should not insist on naming cable types according to FEC: that's not a cable function or property.

Cl 110 SC 110.10 P 151 L 53 # i-86	C/ 110 SC 110.10.2 P 152 L 41 # 1-32
Dawe, Piers J G Mellanox Technologie	RAN, ADEE Intel Corporation
Comment Type TR Comment Status X	Comment Type T Comment Status X
I don't see a good reason for breaking the consensus of the September meeting (the last regular comment resolution), which was 15 dB for a 2.75 m cable. The numbers in the draft now (15.5 dB, 3 m cable) require a thicker cable than desirable, and the evidence I have seen about lengths tells me that 2.75 m is enough to cable up a normal rack.	In 110.10.2, the IL upper limits refer to the measured value at 12.8906 GHz. In addition, there is a definition of fitted insertion loss in the first paragraph, but it is not used. Insertion loss at a specific frequency is difficult to control and may have little effect on
	performance. Fitted IL is more important for performance.
SuggestedRemedy	
Change 15.5 dB to 16 dB and 3 m back to 2.75 m for CA-25G-N.	The current RITT is also specified with fitted IL. It is preferable to align CA specs with RIT channel requirements and use the fitted value in both places.
Proposed Response Response Status <b>O</b>	channel requirements and use the fitted value in both places.
C/ 110 SC 110.10 P 152 L 17 # 1-87	Note that COM is a normative specification for cable assemblies, and seems to practically limit the insertion loss.
C/         110         SC         110.10         P 152         L 17         # i-87           Dawe, Piers J G         Mellanox Technologie         Mellanox Technologie         Mellanox Technologie         Mellanox Technologie	SuggestedRemedy
	Change "The measured insertion loss" to "The fitted insertion loss", in the second
Comment Type E Comment Status X	paragraph and the third paragraph of 110.10.2 (4 times in total).
Table 110-9, cable assembly characteristics summary, is misleading because it omits COM, one of the most important specs.	If this is not accepted, the fitted IL description is not required at all, so delete the first
	paragraph instead.
SuggestedRemedy	Proposed Response Response Status <b>O</b>
Insert a row for COM, refer to 110.10.7	
Proposed Response Response Status <b>O</b>	
	C/ 110 SC 110.10.7 P 153 L 49 # i-59
C/ 110 SC 110.10.1 P152 L 17 # i-58	Dudek, Michael QLogic Corporation
Dudek, Michael QLogic Corporation	Comment Type TR Comment Status X
	All CR-S and CR ports are required to meet the no-fec interference tolerance conditions
Comment Type TR Comment Status X The critical parameter for the cables should be COM. The Interference Tolerance Test is	and therefore will be capable of working over CA-S cables with equivalent required receive performance.
also using an attenuation that is approximately 0.7dB larger than the max cable attenuation	•
plus host board loss used in COM	SuggestedRemedy
SuggestedRemedy	Change the CTLE and Tx SNR COM parameters for CA-S in table 110-10 to match those for CA-N ie change max CTLE to -16dB and Tx SNR to 28.4dB
Increase the attenuation for the CA-S cable to 17.18dB and the CA-N to 16.22dB in table 110-9 and in the text at lines 43 and 44 and the PICS CA3 and CA4. Also in table 110A-1 change the ILCamax to these values and change IIChmax to 29.70dB for CA-25G-S and to 28.74dB for CA-25G-N	Proposed Response Response Status <b>O</b>
Proposed Response Response Status <b>O</b>	

C/ 110 SC 110.10.7 Page 20 of 22 2015-12-26 1:21:14 AM

C/ 110 SC 110.10.	7 <i>P</i> 154	L 19	# <u>i-64</u>	C/ 111 SC 111.8.3.1	P <b>174</b>	L 18	# <mark>i-61</mark>
Dudek, Michael	QLogic Corpor	ration		Dudek, Michael	QLogic Corp	oration	
Comment Type <b>T</b>	Comment Status X			Comment Type TR	Comment Status X		
nature described in D SuggestedRemedy consider whether the	DFE error propagation did not ta budek_3by_03_0116 (earlier dra limits on the maximum DFE tap erence tolerance test) <i>Response Status</i> <b>O</b>	aft presented to	the ad-hoc).	that measured at TP0a (earlier version present measured at TP0a a fa added in this test than If the Tx is not assume compensated the test t the Interference toleran	oes not produce an equivale and used as input to equati ed to the ad-hoc dudek_3by ster risetime is input to the o should be. d to have a good termination ransmitter could input a sign to test than is used to test esulting in an under-stresse	on 92-22. (See (_12-2-15). For s channel resulting and therefore the hificantly faster ri COM for the chai	dudek_3by_02_0116) slower risetimes i in more noise being he risetime is not setime to the channel i nnel while calibrating
C/ 111 SC 111.8.2	P 174	L <b>5</b>	# [i-60	SuggestedRemedy			
Dudek, Michael	QLogic Corpor			equation 93A-46 with a "table 93-6" "and the tra	not compensating for the rise new local equation provide ansmitter device package	d by Dudek_3by_ odel S(tp) is omi	_02_0116. Add after itted from the
value created in COM and channels not me	the peak pulse to steady stage / for channel testing resulting in eting the BER requirements. S	n the possibility	of compliant Tx,'s Rx's	Ht(f) defined by Equation 86A.5.3.3) of the signal	ad, the voltage transfer func on (New B) where Tr is the 2 I as measured at the TP0a.	20% to 80% trans	sition time (see
value created in COM and channels not me SuggestedRemedy	A for channel testing resulting in eting the BER requirements. S ccept that the Linear fit pulse pe	n the possibility See presentation	of compliant Tx,'s Rx's n Dudek_3by_01_0116	Ht(f) defined by Equation	on (New B) where Tr is the 2	20% to 80% trans	sition time (see
value created in COM and channels not mer SuggestedRemedy after 93.8.1.7 add "ex change the PICS TC <sup>2</sup>	A for channel testing resulting in eting the BER requirements. S ccept that the Linear fit pulse pe	n the possibility See presentation	of compliant Tx,'s Rx's n Dudek_3by_01_0116	Ht(f) defined by Equation 86A.5.3.3) of the signal used in Clause 93.	on (New B) where Tr is the 2 I as measured at the TP0a. <i>Response Status</i> <b>O</b>	20% to 80% trans (note this is a di	sition time (see
value created in COM and channels not mer SuggestedRemedy after 93.8.1.7 add "ex change the PICS TC Proposed Response	I for channel testing resulting in eting the BER requirements. S ccept that the Linear fit pulse pe 19 to match. <i>Response Status</i> <b>O</b>	n the possibility See presentation	of compliant Tx,'s Rx's n Dudek_3by_01_0116	Ht(f) defined by Equation 86A.5.3.3) of the signal used in Clause 93. Proposed Response Cl 111 SC 111.8.3.1	on (New B) where Tr is the 2 I as measured at the TP0a. Response Status <b>0</b> P <b>174</b>	20% to 80% trans (note this is a di	sition time (see ifferent filter from that
value created in COM and channels not mer SuggestedRemedy after 93.8.1.7 add "ex change the PICS TC Proposed Response C/ 111 SC 111.8.3 Dudek, Michael	A for channel testing resulting in eting the BER requirements. S accept that the Linear fit pulse pe 19 to match. <i>Response Status</i> <b>O</b> <i>P</i> <b>174</b> QLogic Corpor	h the possibility See presentation eak (min) shall b	of compliant Tx,'s Rx's n Dudek_3by_01_0116 pe 0.78*Vf" Also	Ht(f) defined by Equation 86A.5.3.3) of the signal used in Clause 93. Proposed Response Cl 111 SC 111.8.3.1 RAN, ADEE Comment Type TR The requirement in Tab	on (New B) where Tr is the 2 I as measured at the TP0a. <i>Response Status</i> <b>O</b> <i>P</i> <b>174</b> Intel Corpora	20% to 80% trans (note this is a di <i>L</i> 32 ation s at 12.89 GHz".	fferent filter from that # <u>i-28</u>
value created in COM and channels not mer SuggestedRemedy after 93.8.1.7 add "ex change the PICS TC Proposed Response Cl 111 SC 111.8.3 Dudek, Michael Comment Type TR The KR-S phy also ha	A for channel testing resulting in eting the BER requirements. S accept that the Linear fit pulse pe 19 to match. Response Status <b>O</b> P <b>174</b>	h the possibility See presentation eak (min) shall b <i>L</i> <b>9</b> ration	of compliant Tx,'s Rx's n Dudek_3by_01_0116 pe 0.78*Vf" Also	Ht(f) defined by Equation 86A.5.3.3) of the signal used in Clause 93. Proposed Response Cl 111 SC 111.8.3.1 RAN, ADEE Comment Type TR The requirement in Tak specific frequency is dif The corresponding RIT	on (New B) where Tr is the 2 I as measured at the TP0a. <i>Response Status</i> <b>O</b> <i>P</i> <b>174</b> Intel Corpora <i>Comment Status</i> <b>X</b> ole 111-4 is for "Insertion los fficult to control and may ha T in clause 110 (table 110-5	L 32 L 32 L 32 L 32 L 32 L 32 L 32 L 32	# <u>i-28</u> Insertion loss at a performance.
value created in COM and channels not mer SuggestedRemedy after 93.8.1.7 add "ex change the PICS TC Proposed Response Cl 111 SC 111.8.3 Dudek, Michael Comment Type TR The KR-S phy also ha SuggestedRemedy Add a paragraph "Re	A for channel testing resulting in eting the BER requirements. S accept that the Linear fit pulse per 19 to match. <i>Response Status</i> <b>O</b> <i>P</i> <b>174</b> QLogic Corpor <i>Comment Status</i> <b>X</b> as to meet the return loss spect	h the possibility See presentation eak (min) shall b <i>L</i> 9 ration s cs at TP5a for 2	of compliant Tx,'s Rx's n Dudek_3by_01_0116 be 0.78*Vf" Also # <u>i-62</u>	Ht(f) defined by Equation 86A.5.3.3) of the signal used in Clause 93. Proposed Response Cl 111 SC 111.8.3.1 RAN, ADEE Comment Type TR The requirement in Tat specific frequency is dir The corresponding RIT 12.89 GHz" instead. Th	on (New B) where Tr is the 2 I as measured at the TP0a. <i>Response Status</i> <b>O</b> <i>P</i> <b>174</b> Intel Corpora <i>Comment Status</i> <b>X</b> ole 111-4 is for "Insertion los fficult to control and may ha	<i>L</i> 32 <i>L</i> 32 <i>L</i> 32 tion s at 12.89 GHz". ve little effect on i) includes "Appro-	# <u>i-28</u> Insertion loss at a performance.
value created in COM and channels not mer SuggestedRemedy after 93.8.1.7 add "ex change the PICS TC Proposed Response Cl 111 SC 111.8.3 Dudek, Michael Comment Type TR The KR-S phy also ha SuggestedRemedy Add a paragraph "Re be the same as those and detailed in 93.8.2	A for channel testing resulting in eting the BER requirements. S accept that the Linear fit pulse per 19 to match. <i>Response Status</i> <b>O</b> <i>P</i> <b>174</b> QLogic Corpor <i>Comment Status</i> <b>X</b> as to meet the return loss spece	h the possibility See presentation eak (min) shall b <i>L</i> <b>9</b> ration s cs at TP5a for 2 E-KR4, as summ	of compliant Tx,'s Rx's n Dudek_3by_01_0116 be 0.78*Vf" Also # <u>i-62</u> 25GBASE-KR-S shall narized in Table 93-5	Ht(f) defined by Equation 86A.5.3.3) of the signal used in Clause 93. Proposed Response Cl 111 SC 111.8.3.1 RAN, ADEE Comment Type TR The requirement in Tak specific frequency is dif The corresponding RIT 12.89 GHz" instead. Th There seems to be no re Comment also applies	on (New B) where Tr is the 2 I as measured at the TP0a. <i>Response Status</i> <b>O</b> <i>P</i> <b>174</b> Intel Corpora <i>Comment Status</i> <b>X</b> ole 111-4 is for "Insertion los fficult to control and may ha T in clause 110 (table 110-5 his makes much more sense	<i>L</i> 32 <i>L</i> 32 <i>L</i> 32 ation s at 12.89 GHz". ve little effect on b) includes "Appro- c. equirements.	# <u>i-28</u> Insertion loss at a performance.
value created in CON and channels not mer SuggestedRemedy after 93.8.1.7 add "ex change the PICS TC Proposed Response Cl 111 SC 111.8.3 Dudek, Michael Comment Type TR The KR-S phy also ha SuggestedRemedy Add a paragraph "Re be the same as those	A for channel testing resulting in eting the BER requirements. S accept that the Linear fit pulse per 19 to match. <i>Response Status</i> <b>O</b> <i>P</i> <b>174</b> QLogic Corpor <i>Comment Status</i> <b>X</b> as to meet the return loss spect eceiver return loss characteristic e of a single lane of 100GBASE	h the possibility See presentation eak (min) shall b <i>L</i> <b>9</b> ration s cs at TP5a for 2 E-KR4, as summ	of compliant Tx,'s Rx's n Dudek_3by_01_0116 be 0.78*Vf" Also # <u>i-62</u> 25GBASE-KR-S shall narized in Table 93-5	Ht(f) defined by Equation 86A.5.3.3) of the signal used in Clause 93. Proposed Response Cl 111 SC 111.8.3.1 RAN, ADEE Comment Type TR The requirement in Tab specific frequency is dif The corresponding RIT 12.89 GHz" instead. Th There seems to be no n Comment also applies SuggestedRemedy	on (New B) where Tr is the 2 I as measured at the TP0a. Response Status <b>O</b> P <b>174</b> Intel Corpora Comment Status <b>X</b> ole 111-4 is for "Insertion los fficult to control and may ha T in clause 110 (table 110-5 nis makes much more sense reason to have misaligned m	<i>L</i> 32 <i>L</i> 32 tion s at 12.89 GHz". ve little effect on b) includes "Appro- c. equirements.	# <u>i-28</u> Insertion loss at a performance.

C/ 111 SC 111.8.3.1

	<b>D</b>				<b>D</b>		<i>u</i> 1
V 111 SC 111.9	P <b>176</b> QLogic Corpor	L <b>34</b> ation	# <u>i-65</u>	C/ 112 SC 112.9 King, Jonathan	P <b>196</b> Finisar Corpo	L <b>3</b> ration	# i-30
<i>comment Type</i> <b>T</b> Previous analysis of DF	Comment Status X E error propagation did not ta dek_3by_03_0116 (earlier dra	ke into account		Comment Type E Make the wording wh	Comment Status X ich links 'fiber optic channel me al clauses (eg 38,52,87,88).		ment' in this section
uggestedRemedy consider whether the lin (also for the Rx interfere proposed Response	nits on the maximum DFE tap ence tolerance test) <i>Response Status</i> <b>O</b>	weights should	be changed in COM.		The fiber optic link model (cha k segment.' immediately befor		
2/ 111 SC 111.9 Ibara, Satoshi Comment Type E	P 176 FUJITSU Comment Status X 02.9.3" seems to be typo.	L 37	# [i-1	Proposed Response	Response Status O		
uggestedRemedy Change "92.9.3" into "93							
Proposed Response	Response Status 0						
2/ 112 SC 112.4.2 udek, Michael	P <b>200</b> QLogic Corpor	L <b>28</b> ation	# [i-63				
Comment Type E There is only one optica	Comment Status X						
uggestedRemedy change "all ot the optica 40 change "any" to "the	al transmitters" to "the optical	transmitter" Als	so on line 36 and line				

C/ 112 SC 112.9