C/ 045 SC 45.2.1.97	P 42	L 3	# r01-1	C/ 073 SC 73.6.4	P 62	L 4	# r01-3
Marris, Arthur	Cadence Desi			Hidaka, Yasuo	Fujitsu Labo	-	# 101-5
Comment Type E	Comment Status X			Comment Type T	Comment Status X		
SuggestedRemedy Remove editors note a Proposed Response	s it says it is to be removed ir s it says it is to be removed ir <i>Response Status</i> O			A9 and A10 ability b cables in the BASE- S PHY, but it may ca negotiation with 25G enforcement of RS-I Such method should	cond paragraph of page 62, 250 its. It provides interoperability v R FEC mode. It is the best mo ause high data error rates. Son BASE-CR-S PHY over 5m cat FEC for 5m cable is possible bi d be clearly described.	with 25GBASE-C de of interoperatione customers ma poles by enforcing	R-S PHY even over 5m ion with 25GBASE-CR- ay want failure in auto RS-FEC. Such
C/ 112 SC 112.9 Marris, Arthur	P 202 Cadence Desi	L 26 gn Syste	# r01-2	SuggestedRemedy	paragraph between the second	and third paragr	anhs in page 62:
SuggestedRemedy	Comment Status X s it says it is to be removed ir s it says it is to be removed ir Response Status O			supported by 25GB/ may advertise only / 25GBASE-CR-S PH mode of interoperati Likewise, if the phys 25GBASE-KR-S PH and A10 ability bits.	f the physical medium identified ASE-CR-S PHYs (e.g. CA-25G A10 ability bit in order to prever IY, or may advertise both of A9 on with 25GBASE-CR-S PHY, ical medium identified by the n Ys, 25GBASE-KR PHY may a The method used by the mana ne scope of this standard.	-L cable assemb at unreliable inter and A10 ability I although the bit anagement entit dvertise only A10	ly), 25GBÁSE-CR PHY operation with bits to allow the best error rate may be high. ty is not supported by) ability bit or both of A9
				Proposed Response	Response Status O		
				C/ 106 SC 106.3 Marris, Arthur	P 98 Cadence De	L 8 sign Syste	# r01-4
				Comment Type T Change 100 ppm to	Comment Status X 0.01% to match the base stan	dard	
				SuggestedRemedy Change 100 ppm to	0.01% to match the notation ir	Clause 46 in the	e base standard
				Do this in 106.3 and	the PICS in 106.5.3.3		

Proposed Response Response Status **0**

Comment Type T Comment Status X The requirements stated in items a), b), and c) are not included in the PICS. SuggestedRemedy Add items to the PICS table in 110.13.4.4 corresponding the normative specifications in 110.8.4.1. Proposed Response Response Status O C(1 110 SC 110.8.4.2.5 P157 L31 # [101-6] Healey, Adam Broadcom Ltd. Comment Type T Comment Status X The requirements defined in the last paragraph of 110.8.4.2.5 are not included in the PICS. This text seems redundant with the normative requirements stated in 110.8.4.2: "A 25GBASE-CR PHY shall comply with the receiver interference tolerance test requirements for the BASE-R FEC and no-FEC modes." SuggestedRemedy If the correct interpretation is that "test requirements" and "error requirements" are	Healey, Adam Broadcom Ltd.	C/ 093A SC 93A.1 P 211 L 31 # r01-8 Healey, Adam Broadcom Ltd. Broadcom Ltd.
SuggestedRemedy Add items to the PICS table in 110.13.4.4 corresponding the normative specifications in 110.8.4.1. Proposed Response Response Status O U110 SC 110.8.4.2.5 P 157 L 31 # [0]1-6 C/ 110 SC 110.8.4.2.5 P 157 L 31 # [0]1-6 C/ 110 SC 110.8.4.2.5 P 157 L 31 # [0]1-6 C/ 110 SC 110.8.4.2.5 P 157 L 31 # [0]1-6 C/ requirements defined in the last paragraph of 110.8.4.2.5 are not included in the PICS. This text seems redundant with the normative requirement stated in 110.8.4.2.* "A SC FM P 1 L 12 # [0]1-9 Comment Type T Comment Status X It used to be the style to number amendments on the title page, but that isn't illustrated the Style Manual, nor is it required on the PAR form anymore. (We needed exemption the the correct interpretation is that "test requirements" and "error requirements" are separate items, then add these normative specifications to the PICS table in 110.14.4.1 for the correct interpretation is that "test requirements" and "error requirements" are separate items, then add these normative specifications to the PICS table in 110.14.4.1 for the correct interpretation is that "test requirements" and "error requirements" are separate items, then add these normative specifications to the PICS table in 110.18.4.2. for the same the same, then change the last paragraph to the following: "For 25GBASE-CR PIHY additional requirements ar		
110.8.4.1. Proposed Response Response Status O 21 110 SC 110.8.4.2.5 P 157 L 31 # r01-6 22 110 SC 110.8.4.2.5 P 157 L 31 # r01-6 22 classes Response Response Status O 22 classes Response Status O 23 classes Response Status O 24 classes Comment Type T Comment Status X 25 classes Comment Status X Comment Type E Comment Status X 25 classes CR PHY shall comply with the receiver interference tolerance test requirements ated in 110.8.4.2.5 are not included in the PICS. This text seems redundant with the normative requirements tated in 110.8.4.2.5 are not included in the PICS. This text seems redundant with the coreciver interfretence tolerance test requirements tated in 110.8.4.2. "A 25 classes R FEC and no-FEC modes. A 25 classes-CR-S PHY shall comply with the receiver interfretence tolerance test requirements are separate items, then add these normative specifications to the PICS table in 10.3.4.4.1 for ecorer cinterpretation is that "test requirements are diffications it the "test" and "error" requirements are separate items, then add these normative specifications to the PICS table in 10.3.4.4.1 for and Table 110-7 and Table 110-7 and Table 110-7 and Table 110-8.45 E-CR PHY, additional requirements are separate	SuggestedRemedy	The title of Annex 83D in the base standard is "Chip-to-chip 100 Gb/s four-lane Attachmer Unit Interface (CAUI-4)" and has not been modified by this amendments. As a result, the inclusion of "C2C" in the reference doesn't seem to be appropriate.
roposed Response Response Status O If 110 SC 110.8.4.2.5 P 157 L 31 # r01-6 comment Type T Comment Status X comment Type T Comment Status X The requirements defined in the last paragraph of 110.8.4.2.5 are not included in the PICS. This text seems redundant with the normative requirement stated in 110.8.4.2. "A C/ FM SC FM P1 L 12 # r01-9 ZSGBASE-CR PHY shall comply with the receiver interference tolerance test requirements for the RS-FEC, BASE-R FEC and no-FEC modes. A 25GBASE-CR-S PHY shall comply with the receiver interference tolerance test requirements" are separate items, then add these normative specifications to the PICS table in 10.13.4.4. If the correct interpretation is that "test requirements" and "error requirements" are separate items, then add these normative specifications to the PICS table in 10.13.4.4. If the correct interpretation is that "test and "error requirements" are separate items, then add these normative specifications to the PICS table in 10.13.4.4. If the correct interpretation is that "test and "error requirements are one in the same, then change the last paragraph to the following: "For 25GBASE-CR-SP and 25GBASE-CR-SP SUggestedRemedy SUggestedRemedy Change Amendment: to Amendment 2: to also be consistent with frontmatter listing or page 12. Proposed Response Response Status W		
Healey, Adam Broadcom Ltd. Comment Type T Comment Status X The requirements defined in the last paragraph of 110.8.4.2.5 are not included in the PICS. This text seems redundant with the normative requirement stated in 110.8.4.2: "A 25GBASE-CR PHY shall comply with the receiver interference tolerance test requirements for the RS-FEC, BASE-R FEC and no-FEC modes. A 25GBASE-CR-S PHY shall comply with the receiver interference tolerance test requirements for the BASE-R FEC and no-FEC modes." Comment Type E Comment Status X SuggestedRemedy If the correct interpretation is that "test requirements" and "error requirements" are separate items, then add these normative specifications to the PICS table in 110.13.4.4. If the correct interpretation is that "test" and "error" requirements are one in the same, then change the last paragraph to the following: "For 25GBASE-CR CR HY, additional requirements are summarized in Table 110-7 and Table 110-8. For a 25GBASE-CR PHY, additional requirements are summarized in Table 110-7. SuggestedRemedy SuggestedRemedy Change Amendment: the receiver interference tolerance requirements are summarized in Table 110-7. For 25GBASE-CR PHY, additional requirements are summarized in Table 110-7. For 25GBASE-CR PHY, additional requirements are summarized in Table 110-8. For a 25GBASE-CR PHY, additional requirements are summarized in Table 110-8. For a 25GBASE-CR PHY, additional requirements are summarized in Table 110-7. Proposed Response Response Status W	Proposed Response Response Status O	
The requirements defined in the last paragraph of 110.8.4.2.5 are not included in the PICS. This text seems redundant with the normative requirement stated in 110.8.4.2. "A 25GBASE-CR PHY shall comply with the receiver interference tolerance test requirements for the RS-FEC, BASE-R FEC and no-FEC modes. A 25GBASE-CR-S PHY shall comply with the receiver interference tolerance test requirements for the BASE-R FEC and no-FEC modes." <i>uggestedRemedy</i> If the correct interpretation is that "test requirements" and "error requirements are one in the same, then change the last paragraph to the following: "For 25GBASE-CR PHY, additional requirements are summarized in Table 110-7 and Table 110-8. For a 25GBASE-CR PHY, additional requirements are		
This text seems redundant with the normative requirements stated in 110.8.4.2: "A 25GBASE-CR PHY shall comply with the receiver interference tolerance test requirements for the RS-FEC, BASE-R FEC and no-FEC modes. A 25GBASE-CR-S PHY shall comply with the receiver interference tolerance test requirements for the BASE-R FEC and no-FEC modes." <i>IggestedRemedy</i> If the correct interpretation is that "test requirements" and "error requirements" are separate items, then add these normative specifications to the PICS table in 110.13.4.4. If the correct interpretation is that "test" and "error" requirements are one in the same, then change the last paragraph to the following: "For 25GBASE-CR and 25GBASE-CR-S PHYs, the receiver the receiver interference tolerance requirements are our in the same, then that on Table 110-7 and Table 110-8. For a 25GBASE-CR PHY, additional requirements are	omment Type T Comment Status X	
If the correct interpretation is that "test requirements" and "error requirements" are separate items, then add these normative specifications to the PICS table in 110.13.4.4. If the correct interpretation is that "test" and "error" requirements are one in the same, then change the last paragraph to the following: "For 25GBASE-CR and 25GBASE-CR-S PHYs, the receiver interference tolerance requirements are summarized in Table 110-7 and Table 110-8. For a 25GBASE-CR PHY, additional requirements are	This text seems redundant with the normative requirement stated in 110.8.4.2: "A 25GBASE-CR PHY shall comply with the receiver interference tolerance test requirements for the RS-FEC, BASE-R FEC and no-FEC modes. A 25GBASE-CR-S PHY shall comply with the receiver interference tolerance test requirements for the BASE-R FEC and no-FEC	It used to be the style to number amendments on the title page, but that isn't illustrated in the Style Manual, nor is it required on the PAR form anymore. (We needed exemption for that on drafts because of our difficulty in knowing approval order throughout the process, and perhaps IEEE-SA editorial staff has gone too far in accomodating us). Looking at P802.3bv possibly being Amendment 9, I believe it critical to clearly identify order at the
separate items, then add these normative specifications to the PICS table in 110.13.4.4. If the correct interpretation is that "test" and "error" requirements are one in the same, then change the last paragraph to the following: "For 25GBASE-CR and 25GBASE-CR-S PHYs, the receiver interference tolerance requirements are summarized in Table 110-7 and Table 110-8. For a 25GBASE-CR PHY, additional requirements are		
PHYs, the receiver the receiver interference tolerance requirements are summarized in Table 110-7 and Table 110-8. For a 25GBASE-CR PHY, additional requirements are	separate items, then add these normative specifications to the PICS table in 110.13.4.4. If the correct interpretation is that "test" and "error" requirements are one in the same, then	Change Amendment: to Amendment 2: to also be consistent with frontmatter listing on
		Proposed Response Response Status W
		[Editor observed CommontType from C to E to correct reque commont entry error]
Proposed Response Response Status O	Table 110-7 and Table 110-8. For a 25GBASE-CR PHY, additional requirements are	[Editor changed Comment type from G to E to correct rogue comment entry error.]
	Table 110-7 and Table 110-8. For a 25GBASE-CR PHY, additional requirements are summarized in Table 110-6."	[Editor changed comment ype from G to E to conect rogue comment entry error.]

Comment Type T Comment Status X

The function cascade() is used in Equation 110-1 but is not defined.

SuggestedRemedy

Include a reference to the definition of cascade() in an appropriate location in 110.10.7.1.1.

Proposed Response Response Status **0**

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

Comment ID r01-9

Page 2 of 8 2016-02-26 7:48:04 AM



Comment Type E Comment Status X

The amendment identification is not consistent. I believe it is correct here (references to CMP) and most places in the draft, but not at P.11, L.3. Basically, we have drifted away from all references in the body of the draft being of the form IEEE Std 802.3by-20xx, (with document title and headers using the project designation P802.3by/D3.1). Though likely to be caught in publication preparation (especially since the boxed note is instructed to be this way in current IEEE templates), we should strive for consistency in the body of the document so publication editors only search for one string that needs to be updated.

SuggestedRemedy

The note is something carried into the published standard and therefore should in that note be IEEE Std 802.3by-201x. This may be something that IEEE editorial staff has changed recently. We should get clear guidance from staff (especially since they are currently revising the Style Manual). We also use IEEE Std 802.3by-201x in the PICS template and PICS in this draft.

Proposed Response	Response Status	ο
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C/ 001	SC 1.5	P 3	0	L 41	# r01-11	ŀ
Grow, Bob)					
Comment	Туре Е	Comment Status	Х			(
The a	cronyms list an	d inserts are alphanum	eric, not	t alphabetic.		C
Suggested	dRemedy					(
Chang	ge alphabetical	to alphanumerical.				
Proposed	Response	Response Status	ο			

Comment Type E Comment Status X

In discussion with our publication editors at the Atlanta meeting, I understood their instruction to be to only include reference to an amendment when it is relevant to the editing instruction. In this case and most other instructions with a parenthetical list, the list has nothing to do with the insertion point for new content. In looking at this for P802.3bv (assuming it could be Amendment 9), if following this format, I would be listing six amendments that inserted something into the SYNTAX before bv, none of which are relevant to the inserting into this attribute without a list of previous amendments.) This draft (though not all 802.3 drafts in ballot) is also inconsistent. The list is included in SYNTAX, but not in BEHAVIOUR, both are part of an attribute specification. Similarly, this draft inserts into 1.5, but correctly does not list all amendments that have modified that alphanumeric list.

SuggestedRemedy

Delete the parenthetical list of amendments in editing instructions and only include reference to an amendment when it is necessary to specify the insertion point (or source for text of a Change instruction, etc.) Delete the three unnecessary lists in clause 30.

Proposed	Response	Response Status O		
C/ 045 Grow, Bob	SC 45.2.1.6	P 39	L 10	# <u>r01-13</u>
Comment	Туре Т	Comment Status X		
		like the suggestion that an e and similar tables, that man	,	

SuggestedRemedy

values for.

Please consider the service to follow-on 802.3 projects of listing the code points individually as reserved so that subsequent amendments don't have to worry about mucking with the reserved rows which is a problem for amendment approval order.

Proposed Response Response Status **O**

C/ 045	SC 45.2.1.10aa	P 38	L 18	# r01-14

Grow, Bob

Comment Type E Comment Status X

The lettering of inserts is broken given sufficient inserts (in the case of P802.3bn two). When discussing this problem with our publication editors in Atlanta, they admitted after consultation with the manager of the IEEE editorial department that what the style manual describes breaks pretty quickly. They agreed a long string of a's is not particularly good. They also did not jump at making letters simply a tag, with alphabetic order not meaning anything (my preferred solution if we want to letter instead of instruct renumbering). In drafts I've reviewed this week, we are using aa in three different ways (1. when an insert is required after a and before b, 2. like this when an insert is required before a, and 3. in P802.3bn when more than 26 inserts need to be done <the bn current draft has a bad insert point so doesn't currently show this>). Therefore, though trying to make alphabetical order mean something, we have failed to do so consistently in current 802.3 projects -- other it seems that b follows a is consistent, but I believe we have cases of a being before the reference point and b being after.

SuggestedRemedy

If using letters, use the letter b and give up on the letter meaning anything about order. Preferred though would be to insert and instruct renumbering as we did for years.

Proposed Response Response Status **O**

C/ 110	SC 110.8.4.2.3	P 156	L 44	# <u>r</u> 01-15
Mellitz, Ric	chard	Intel Corporatio	n	

Comment Type T Comment Status X

There does not seem to be a way to determine where to use SCHSp and how it relates to Sp.

SuggestedRemedy

change: d) The transmitter device package model S(tp) is omitted from the calculation of Sp to: d) Sp is determined from equation 93A-3 by substituting SCHSp for S except that the transmitter device package model S(tp) is omitted from the calculation of Sp.

Proposed Response R

Response Status O

C/ 110	SC 110.8.3	P 153	L 18	# r01-16
Dudek, Mic	hael	QLogic Corpo	oration	

Comment Type TR Comment Status X

As pointed out in dudek_3by_0116 there is a hole in the budget because the Pmax/Vf ratio specification for the transmitter is more relaxed than the effective ratio used in COM. There have been three further presentations on this topic to the ad-hoc and there will be a presentation at the March plenary.

SuggestedRemedy

At this point in the document after 92.8.3.9 add "except that the Pmax/Vf ratio shall be 0.49." Add to the Tx used in COM in annex 93A an option to add a Gaussian filter as defined in equation 93A-46 with beta of 2. On page 160 line 9 after 93A.1 add with a Tx Gaussian filter of 12ps risetime). In table 110-11 (on page 160) change the gDC value for CA-25G-S and CA-25G-L to 13dB. In this same table also change the value of SNR_TX to 29dB for all three cables.

Proposed Response Response Status **O**

C/ 111	SC 111.8.2	P 181	L 5	# r01-17
Dudek, Micha	ael	QLogic Corpo	oration	

Comment Type **TR** Comment Status **X**

As pointed out in dudek_3by_0116 there is a hole in the budget because the Pmax/Vf ratio specification for the transmitter is more relaxed than the effective ratio used in COM. There have been three further presentations on this topic to the ad-hoc and there will be a presentation at the March plenary.

SuggestedRemedy

At this point in the document after 93.8.1.7 add "except that the Pmax/Vf ratio shall be 0.75." Add to the Tx used in COM in annex 93A an option to add a Gaussian filter as defined in equation 93A-46 with beta of 2 (default no filter). State on page 183 line 25 that a 12ps risetime Tx filter is used. In table 111-8 (on page 184) change the Av value to 0.43, the Afe and Ane values to 0.63 and the gDC value to 16dB.

Proposed Response Response Status O

.8.4.2.3	P 155 Mellanox Techno	L 45 Dogie	# r01-20
Comment S		C C	
rminology: compare		10.7.1.	
	0 0		
rences" to "test poin test point" (or "TP0") <i>Response S</i>). And see anothe		∍ "Tx test
.8.4.2.1	P 156 Mellanox Techno	L 4 blogie	# r01-21
Comment S from Transmitter cor	Status X		
the other way?			
Response S	Status O		
,			
.8.4.2.1	P 156	L 9	# -04.00
·0.4.2.1	Mellanox Techno		# r01-22
Comment S		logio	
e three test points in putput of a pattern ge d. But measuring th B) is practical becau d out, and measuring	these figures is ne enerator isn't praction the insertion loss at use network analys	tical unless you h t the "frequency d sers have their ov	ave a scope with a lependent wn special cables
,			
n" to the input of "Fr b. Then it will be co	requency depende nistent with the R	ent attenuator" in I	
Response S	Status O		
oi 3ł	on" to the input of "F 3b. Then it will be co urement (TP1, TP4) b	on" to the input of "Frequency depende 3b. Then it will be conistent with the R urement (TP1, TP4) better.	

-	•
C/ 110 SC 110.8.4.2.3 P 156 L 29 # r01-23 Dawe, Piers J G Mellanox Technologie Mellanox Technox Technologie <td< th=""><th>C/ 110 SC 110.8.4.2.3 P 156 L 42 # r01-25 Dawe, Piers J G Mellanox Technologie Mellanox Te</th></td<>	C/ 110 SC 110.8.4.2.3 P 156 L 42 # r01-25 Dawe, Piers J G Mellanox Technologie Mellanox Te
Comment Type E Comment Status X	Comment Type E Comment Status X
In Figure 110-4, there is a point called Rx test reference which is the same as TP4 in 110.7.1. We must call something by the same name every time. Also, it isn't associated with a receiver, except the one in the network analyser: it's more output than Rx. <i>SuggestedRemedy</i> So we must call it TP4, as in Figure 110-2.	This says "COM is calculated using both Test 1 and Test 2 receiver device package model transmission line lengths listed in Table 110-11" while the table has "Device package model Transmission line length, Test 1 i.e. no "receiver". In this subclause, the only device package model is the receiver one because item d tells us to omit the transmitter device package model. But, someone looking for "receiver" in the table would find only "Receiver 3 dB bandwidth". Would it be better to use the same name as in the table?
Proposed Response Response Status O	SuggestedRemedy Here, delete "receiver"
C/ 110 SC 110.8.4.2.3 P 156 L 42 # r01-24 Dawe, Piers J G Mellanox Technologie Mellano	Proposed Response Response Status O
Comment Type T Comment Status X	C/ 110 SC 110.8.4.2.3 P 157 L 3 # r01-26
The names in "COM is calculated using both Test 1 and Test 2 receiver device package model transmission line lengths listed in Table 110-11" are confusing, because 110.8.4.2	Dawe, Piers J G Mellanox Technologie
has Test 1 (low loss) and Test 2 (high loss) in the tables. While in practice, Test 2 receiver	Comment Type TR Comment Status X
device package model transmission line length goes with Test 2 (high loss), this doesn't necessarily apply to the two Test 1s, and now we are explicit that "The value of COM is taken as the lower of the two calculated values". To clear up the confusion we should rename one of the pairs.	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. I think this is a particular issue for the BASE-R FEC mode and possibly all the low loss tests.
SuggestedRemedy	SuggestedRemedy
Change "COM is calculated using both Test 1 and Test 2 receiver device package model transmission line lengths listed in Table 110-11." to "COM is calculated using both receiver device package model transmission line lengths listed in Table 110-11.".	In Table 110-7, add a row for minimum SNR_TX for Test 2 (high loss). Add text explaining that if a calculated SNR_TX is too low, a worse test channel should be used (more loss or ILD).
In Table 110-11, change "Transmission line length, Test 1 Transmission line length, Test 2" to "Transmission line length A Transmission line length B" or to "Transmission line length L".	Proposed Response Response Status O

length S Transmission line length L". p 161 lines 32-34, rename "Test 1 and Test 2" to ""Transmission line lengths A and B" (or "Transmission line lengths S and L").

Similarly in 111.8.3.1, 111.9.1, 111.9.2 and Table 111-8. Adjust PICS CA10 and CC3 to match.

Proposed Response Response Status **0**

C/ 110 SC 110.10 P 158 L 45 # <u>r01-27</u>	C/ 110 SC 110.10.7 P 160 L 14 # r01-29
Dawe, Piers J G Mellanox Technologie	Dawe, Piers J G Mellanox Technologie
comment Type TR Comment Status X	Comment Type T Comment Status X
"achievable cable length of at least 5 m" excludes achievable cable lengths of less th m. The NOTE here and, and Table 110C-1 footnote a, say "It may be possible to con compliant cable assemblies longer than indicated. Length of a cable assembly does a imply compliance to specifications." So, acheivable lengths shorter than 5 m are not the spec, and actual lengths are longer than the achievable lengths. Not shorter. As market demands cables with actual lengths shorter than 5 m or 3 m, this wording is unhelpful. Also, this text doesn't agree with Table 110C, which has achievable lengths of 5 m ar m, not at least 5 m and 3 m.	 parameters be measured to a stop frequency of at least the signaling rate fb, yet the reference test fixture insertion loss is specified only to 25 GHz (e.g. in 92.11.1.2). SuggestedRemedy For 802.3by PMDs and cables, reduce the stop frequency from fb to 25 GHz, or increase the frequency range of the all the reference test fixture insertion losses from 0.01 <= f <=
uggestedRemedy	
Delete "at least" three times here. Change "It may be possible to construct compliant cable assemblies longer than indit to "It may be possible to construct compliant cable assemblies that are shorter or lon than these achievable cable lengths" here and at Table 110C-1 footnote a. Preferably, change "achievable length" to "example length".	
roposed Response Response Status O	dudek_022416_25GE_adhoc.pdf says that the TxSNR we use for COM for CA-25G-L ar
	CA-25G-S is not consistent with the required SNDR, taking into account any differences test point.
	CA-25G-S is not consistent with the required SNDR, taking into account any differences test point. SuggestedRemedy Increase TxSNR for CA-25G-S and CA-25G-L from 27 dB to 29 dB. Should the TxSNR
awe, Piers J G Mellanox Technologie <i>comment Type</i> TR <i>Comment Status</i> X As D3.0 comment 86 and sella_022416_25GE_adhoc.pdf: I don't see a good reason breaking the consensus of the September meeting, which was 15 dB for a 2.75 m ca	CA-25G-S is not consistent with the required SNDR, taking into account any differences test point. SuggestedRemedy Increase TxSNR for CA-25G-S and CA-25G-L from 27 dB to 29 dB. Should the TxSNR CA-25G-N also be increased, from 28.4 to 29 dB? Proposed Response Response Status O
awe, Piers J G Mellanox Technologie <i>Comment Type</i> TR <i>Comment Status</i> X As D3.0 comment 86 and sella_022416_25GE_adhoc.pdf: I don't see a good reason	CA-25G-S is not consistent with the required SNDR, taking into account any differences test point. SuggestedRemedy Increase TxSNR for CA-25G-S and CA-25G-L from 27 dB to 29 dB. Should the TxSNR CA-25G-N also be increased, from 28.4 to 29 dB? Proposed Response Response Status O
awe, Piers J G Mellanox Technologie omment Type TR Comment Status X As D3.0 comment 86 and sella_022416_25GE_adhoc.pdf: I don't see a good reason breaking the consensus of the September meeting, which was 15 dB for a 2.75 m ca The numbers in the draft now (15.5 dB, 3 m cable) don't work for affordable (= high yielding) 26 AWG which is what's needed, when the allowed variation in MCB connect loss is taken into account.	CA-25G-S is not consistent with the required SNDR, taking into account any differences test point. SuggestedRemedy Increase TxSNR for CA-25G-S and CA-25G-L from 27 dB to 29 dB. Should the TxSNR CA-25G-N also be increased, from 28.4 to 29 dB? Proposed Response Response Status O C/ 111 SC 111.8.2 P 181 L 4 # r01-31 Dawe, Piers J G Mellanox Technologie Comment Type TR Comment Status X dudek_022416_25GE_adhoc.pdf says that the draft spec is not self consistent. As optio C of slide 24:
 Dawe, Piers J G Mellanox Technologie Comment Type TR Comment Status X As D3.0 comment 86 and sella_022416_25GE_adhoc.pdf: I don't see a good reason breaking the consensus of the September meeting, which was 15 dB for a 2.75 m ca The numbers in the draft now (15.5 dB, 3 m cable) don't work for affordable (= high yielding) 26 AWG which is what's needed, when the allowed variation in MCB connect loss is taken into account. SuggestedRemedy Change 15.5 dB to 16 dB for CA-25G-N. Alternatively change 3 m back to 2.75 m, or adopt an asymmetric host loss for 25GB 	CA-25G-S is not consistent with the required SNDR, taking into account any differences test point. SuggestedRemedy Increase TxSNR for CA-25G-S and CA-25G-L from 27 dB to 29 dB. Should the TxSNR CA-25G-N also be increased, from 28.4 to 29 dB? Proposed Response Response Status O C/ 111 SC 111.8.2 P 181 L 4 # r01-31 Dawe, Piers J G Mellanox Technologie Comment Type TR Comment Status X dudek_022416_25GE_adhoc.pdf says that the draft spec is not self consistent. As optic

C/ 110B SC 110B.1 P 234 L 28 # r01-32	C/ 111 SC 111.9.2 P 184 L 41 # r01-34
Dawe, Piers J G Mellanox Technologie	Mellitz, Richard Intel Corporation
Comment Type E Comment Status X	Comment Type TR Comment Status X
Figure 92-16 shows the reference test fixture insertion loss of the HCB, but I could not find where the reference test fixture insertion loss of the MCB (Eq 92-35) is illustrated.	In table 111-8 Transmitter differential peak output voltage does not math transmitter specification min and max voltage.
SuggestedRemedy	SuggestedRemedy
Please add a figure showing the two reference test fixture insertion losses.	Change Av=0.44, Afe=0.65, Ane=0.65
Proposed Response Response Status O	Proposed Response Response Status O
C/ 110B SC 110B.1.2 P 235 L 1 # [r01-33	C/ 108 SC 108.5.4.6 P 122 L 50 # r01-35
Dawe, Piers J G Mellanox Technologie	RAN, ADEE Intel Corporation
Comment Type TR Comment Status X As D3.0 comment 86 and sella_022416_25GE_adhoc.pdf: the numbers for CA-25G-N (15.5 dB, 2 m cable) don't work for effordable (Comment TypeEComment StatusXThe box in this figure is not dotted, it is dashed.

(15.5 dB, 3 m cable) don't work for affordable (= high yielding) 26 AWG which is what's needed, when the allowed variation in MCB connector loss is taken into account. Part of the problem appears to be the way the MCB loss is calibrated out: if the MCB connector loss is high and the MCB PCB loss is low, accounting for differences between the insertion loss of an actual test fixture and the reference insertion loss in the required way exacerbates the measurement error rather than improving it.

SuggestedRemedy

Account for MCB loss by adjusting the MCB-HCB mated pair loss for the HCB PCB loss (which is required information in 92.11.1.2 anyway and can be obtained from a measurement of a replica channel). So variance in MCB connector loss would be accounted for.

To do this we need to define a reference IL for the MCB-HCB mated pair (or equivalently, the whole of the MCB or the MCB connector). This need not be binding on anyone, not even MCB makers.

Another way to proceed would be to leave the accounting for as it is but add required max/min IL for the whole of the MCB or the MCB connector.

Proposed Response Resp

Response Status 0

Change "dotted box" to "dashed box".

SuggestedRemedy

Proposed Response Response Status **O**