C/ FM SC Grow, Bob	C FM	P1	L 12	# <u>r01-9</u>	<i>CI</i> 001 Grow, Bob	SC 1.5		P 30	L 41	# <u>r</u> 01-11	
the Style Ma that on draft and perhaps P802.3bv p	e the style anual, nor ts because s IEEE-SA ossibly bei	Comment Status X to number amendments on th is it required on the PAR form e of our difficulty in knowing ap deditorial staff has gone too fa ing Amendment 9, I believe it e 802.3 Chair has done that for	n anymore. (We oproval order threar in accomodatin critical to clearly	needed exemption for oughout the process, ng us). Looking at	Suggestee Chanę	cronyms lis dRemedy	st and inse	Comment Status X erts are alphanumeric, no phanumerical. Response Status O	t alphabetic.		
SuggestedRem Change Am page 12.		to Amendment 2: to also be	consistent with fi	rontmatter listing on	<i>CI</i> 030 Grow, Bob	SC 30.	3.2.1.2	P 31	L 11	# <u>r01-12</u>	
Proposed Respo		Response Status W mentType from G to E to corre	ect rogue comme	ent entry error.]		cussion wit	h our pub	Comment Status X ication editors at the Atla clude reference to an ame			
C/FM SC FM P 12 L 18 # [r01-10] Grow, Bob						editing instruction. In this case and most other instructions with a parenthetical list, the lish 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					
CMP) and n from all refe document ti be caught ir	ment ident nost place erences in itle and he n publicatio	Comment Status X tification is not consistent. I be is in the draft, but not at P.11, the body of the draft being of aders using the project design on preparation (especially since emplates), we should strive fo	L.3. Basically, w the form IEEE S nation P802.3by/ ce the boxed note	re have drifted away td 802.3by-20xx, (with D3.1). Though likely to e is instructed to be this	releva seven draft (SYNT draft i	nt to the in amendme though not AX, but no	sert point nts inserti all 802.3 t in BEHA 1.5, but c	something into the SYNT specified. The insert poil ng into this attribute withod drafts in ballot) is also ind VIOUR, both are part of a orrectly does not list all an	nt can be specifi out a list of previ consistent. The an attribute spec	ied clearly in all of the ous amendments.) This list is included in ification. Similarly, this	
		ion editors only search for one			Suggestee	,		t of amondmonts in editir			

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 **O**

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/ 030 SC 30.3.2.1.2

C/ 045 SC 45.2.1.6 P 39 L 10 # [r01-13] Grow, Bob	C/ 045 SC 45.2.1.10aa P 38 L 18 # r01-14 Grow, Bob
Comment Type T Comment Status X Our publication editors like the suggestion that an early amendment simplify the reserved values problem for this and similar tables, that many amendments will define reserved values for. SuggestedRemedy SuggestedRemedy 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	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 a="" bad<br="" bn="" current="" draft="" has="">insert point so doesn't currently show this>). Therefore, though trying to make alphabetica order mean something, we have failed to do so consistently in current 802.3 projects</the>
Cl 045 SC 45.2.1.97 P 42 L 3 # [r01-1] Marris, Arthur Cadence Design Syste Cadence Design Syste Comment Type E Comment Status X Remove editors note as it says it is to be removed in the next draft SuggestedRemedy Remove editors note as it says it is to be removed in the next draft SuggestedRemedy	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
Proposed Response Response Status O	

C/ 045 SC 45.2.1.10aa Page 2 of 8 2016-02-26 7:48:34 AM

	P 62	L 4	# r01-3	C/ 106	SC 106.3	3		^{>} 98	L 8	# r01-4
Hidaka, Yasuo	Fujitsu Laboratori	ies of		Marris, Arthu	ır		Ca	dence Desig	gn Syste	
Comment Type T	Comment Status X			Comment T	/pe T		Comment Stat	us X		
	aragraph of page 62, 25GBA			Change	100 ppm t	o 0.01	% to match the	base standa	rd	
	provides interoperability with 2 C mode. It is the best mode of			SuggestedF	emedy					
S PHY, but it may cause h	high data error rates. Some cu	ustomers may	want failure in auto	Change	100 ppm t	o 0.01	% to match the	notation in C	Clause 46 in th	e base standard
	E-CR-S PHY over 5m cables to for 5m cable is possible but no			Do this i	n 106.3 ar	d the	PICS in 106.5.3	3		
Such method should be cl	early described.			Proposed R			Response Stati	-		
This is related to the comr	ment i-31 to D3.0.						response stat			
SuggestedRemedy	and between the second and	the last second second		0/ 400	00 400 4			7400	1 50	# 04.05
On the other hand, if the p	aph between the second and physical medium identified by	the managem	ent entity is not	<i>CI</i> 108 RAN, ADEE	SC 108.	0.4.6		122 el Corporational	L 50 on	# <u>r01-35</u>
	R-S PHYs (e.g. CA-25G-L ca bility bit in order to prevent uni			Comment T	/pe E		Comment Stat	us X		
	may advertise both of A9 and			The box	in this figu	ire is n	not dotted, it is d	ashed.		
	h 25GBASE-CR-S PHY, althous redium identified by the managed in t			SuggestedF	emedy					
25GBASE-KR-S PHYs, 25	5GBASE-KR PHY may advert	tise only A10 a	ability bit or both of A9	Change	"dotted bo	x" to "	dashed box".			
and A10 ability bits. The m	nethod used by the managem	ent entity to ic	dentify the physical							
				Proposed R	esponse		Response State	is O		
medium is beyond the sco	ope of this standard.	-		Proposed R	esponse		Response State	is O		
medium is beyond the sco		·			-				1 44	# r01-18
medium is beyond the sco Proposed Response F	ope of this standard. Response Status O			C/ 110	SC 110.1			^{>} 145	L 44	# <u>r01-18</u>
medium is beyond the sco Proposed Response F 	ppe of this standard. Response Status O P 211	L 31	# [<u>r01-8</u>	<i>Cl</i> 110 Dawe, Piers	SC 110.1 J G		Me	P 145 Ilanox Tech		# <u>r01-18</u>
medium is beyond the sco Proposed Response F Cl 093A SC 93A.1 Healey, Adam	ppe of this standard. Response Status O P 211 Broadcom Ltd.			Cl 110 Dawe, Piers Comment Ty	SC 110.1 J G /pe E		Me Comment Stat	P 145 Ilanox Tech us X	nologie	-
medium is beyond the sco Proposed Response F Cl 093A SC 93A.1 Healey, Adam Comment Type E	Pe of this standard. Response Status O P 211 Broadcom Ltd. Comment Status X	L 31	# <u>r01-8</u>	Cl 110 Dawe, Piers Comment T PHYs d	SC 110.1 J G /pe E pn't suppor		Me Comment Stat	P 145 Ilanox Tech us X	nologie	# rol-18
medium is beyond the sco Proposed Response F C/ 093A SC 93A.1 Healey, Adam Comment Type E The title of Annex 83D in t Unit Interface (CAUI-4)" ar	ppe of this standard. Response Status O P 211 Broadcom Ltd. Comment Status X the base standard is "Chip-to-ind has not been modified by t	L 31 chip 100 Gb/s	# <u>r01-8</u>	Cl 110 Dawe, Piers Comment Ty PHYs d SuggestedR Change	SC 110.1 J G //pe E pon't suppor /emedy "Table 110	t cable)-2 sur	Comment Stat es, any more tha mmarizes the ca	P 145 Ilanox Tech us X n tables sup ble assemb	nologie oport floors, ev ly types suppo	ren if the opposite is true orted by each of the PHY
medium is beyond the sco Proposed Response F Cl 093A SC 93A.1 Healey, Adam Comment Type E The title of Annex 83D in t Unit Interface (CAUI-4)" ar inclusion of "C2C" in the re	ppe of this standard. Response Status O P 211 Broadcom Ltd. Comment Status X he base standard is "Chip-to-	L 31 chip 100 Gb/s	# <u>r01-8</u>	Cl 110 Dawe, Piers Comment Ty PHYs d SuggestedR Change types", '	SC 110.1 J G //pe E pon't suppor /emedy "Table 110 Table 110	t cable)-2 sur -2Ca	Comment Stat es, any more tha mmarizes the ca ble assembly typ	P 145 Ilanox Tech us X n tables sup ble assemb bes supporte	nologie oport floors, ev ly types suppo ed by each PH	ren if the opposite is true orted by each of the PHY Y type" to:
medium is beyond the sco Proposed Response F CI 093A SC 93A.1 Healey, Adam Comment Type E The title of Annex 83D in t Unit Interface (CAUI-4)" ar inclusion of "C2C" in the re SuggestedRemedy	P 211 P 211 Broadcom Ltd. Comment Status X he base standard is "Chip-to- nd has not been modified by t eference doesn't seem to be a	<i>L</i> 31 chip 100 Gb/s this amendme appropriate.	# <u>r01-8</u> s four-lane Attachment ents. As a result, the	Cl 110 Dawe, Piers Comment Ty PHYs d SuggestedR Change types", ' "Table 1	SC 110.1 J G //pe E pon't suppor /emedy "Table 110 Table 110 10-2 sumr	t cable)-2 sur -2Ca narize:	Comment Stat es, any more tha mmarizes the ca ble assembly typ	P 145 Ilanox Tech us X n tables sup ble assemb bes supporte mbly types	nologie oport floors, ev ly types suppo ed by each PH used by each o	ren if the opposite is true orted by each of the PHY
medium is beyond the sco Proposed Response F Cl 093A SC 93A.1 Healey, Adam Comment Type E The title of Annex 83D in t Unit Interface (CAUI-4)" ar inclusion of "C2C" in the reference SuggestedRemedy Align the reference in Tabl	ppe of this standard. Response Status O P 211 Broadcom Ltd. Comment Status X the base standard is "Chip-to-ind has not been modified by t	<i>L</i> 31 chip 100 Gb/s this amendme appropriate.	# <u>r01-8</u> s four-lane Attachment ents. As a result, the	Cl 110 Dawe, Piers Comment Ty PHYs d SuggestedR Change types", ' "Table 1 "Table 1 "Table 1	SC 110.1 J G //pe E on't suppor remedy "Table 110 Table 110 Table 110 10-2 sumr 10-2 sumr	t cable 0-2 sur -2Ca narize le asse narize	Me Comment Stat es, any more tha mmarizes the ca ble assembly typ s the cable asse embly types use s the cable asse	P 145 Illanox Tech us X n tables sup ble assemb bes supporte mbly types i d by each P mbly types i	nologie oport floors, ev ly types suppo ed by each PH used by each o HY type", or	ren if the opposite is true orted by each of the PHY Y type" to:
medium is beyond the sco Proposed Response F C/ 093A SC 93A.1 Healey, Adam Comment Type E The title of Annex 83D in t Unit Interface (CAUI-4)" ar inclusion of "C2C" in the reference SuggestedRemedy Align the reference in Tabl	P 211 P 211 Broadcom Ltd. Comment Status X he base standard is "Chip-to- nd has not been modified by t eference doesn't seem to be a	<i>L</i> 31 chip 100 Gb/s this amendme appropriate.	# <u>r01-8</u> s four-lane Attachment ents. As a result, the	Cl 110 Dawe, Piers Comment Ty PHYs du SuggestedR Change types", ' "Table 1 "Table 1 "Table 1 "Table 1	SC 110.1 J G //pe E forn't support //ermedy "Table 110 Table 110 Table 110 Table 110 Table 2 sumr 10-2 sumr 10-2 sumr 2 assembly	t cable 0-2 sur 2Ca narizes le asse narizes types	Me Comment Stat es, any more tha mmarizes the ca ble assembly typ s the cable asse embly types use s the cable asse for each PHY ty	P 145 Illanox Tech us X n tables sup ble assemb bes supporte mbly types i rpe".	nologie oport floors, ev by types suppo d by each PH used by each of HY type", or for each of the	ren if the opposite is true orted by each of the PHY Y type" to: of the PHY types",
medium is beyond the sco Proposed Response F Cl 093A SC 93A.1 Healey, Adam Comment Type E The title of Annex 83D in t Unit Interface (CAUI-4)" ar inclusion of "C2C" in the reference SuggestedRemedy Align the reference in Tabl	P 211 P 211 Broadcom Ltd. Comment Status X the base standard is "Chip-to- nd has not been modified by t eference doesn't seem to be a le 93A-2 with the title of the A	<i>L</i> 31 chip 100 Gb/s this amendme appropriate.	# <u>r01-8</u> s four-lane Attachment ents. As a result, the	C/ 110 Dawe, Piers Comment T PHYs d Suggested Change types", ' "Table 1 "Table 1 2Cable Or say i paragra	SC 110.1 J G //pe E on't suppor remedy "Table 110 10-2 sumr 10-2-Cab 10-2 sumr assembly in the action: "Table	t cable -2 sur -2Ca narize: e asse narize: types ve voi e 110-2	Me Comment Stat es, any more tha mmarizes the ca ble assembly ty s the cable asse embly types use s the cable asse for each PHY th ce and match th 2 summarizes th	P 145 Illanox Tech us X n tables sup ble assemb bes supporte mbly types i d by each P mbly types i rpe". e language e PHY type	nologie oport floors, ev by types suppo ed by each PH used by each of HY type", or for each of the in the first sent s operating over	ren if the opposite is true orted by each of the PHY Y type" to: of the PHY types", PHY types", "Table 110 tence of the same er each of the cable
medium is beyond the sco Proposed Response F Cl 093A SC 93A.1 Healey, Adam Comment Type E The title of Annex 83D in t Unit Interface (CAUI-4)" ar inclusion of "C2C" in the reference SuggestedRemedy Align the reference in Tabl	P 211 P 211 Broadcom Ltd. Comment Status X the base standard is "Chip-to- nd has not been modified by t eference doesn't seem to be a le 93A-2 with the title of the A	<i>L</i> 31 chip 100 Gb/s this amendme appropriate.	# <u>r01-8</u> s four-lane Attachment ents. As a result, the	C/ 110 Dawe, Piers Comment T PHYs d Suggested Change types", ' "Table 1 "Table 1 2Cable Or say i paragra	SC 110.1 J G //pe E on't suppor remedy "Table 110 10-2 sumr 10-2-Cab 10-2 sumr assembly in the action: "Table	t cable -2 sur -2Ca narize: e asse narize: types ve voi e 110-2	Me Comment Stat es, any more tha mmarizes the ca ble assembly ty s the cable asse embly types use s the cable asse for each PHY th ce and match th 2 summarizes th	P 145 Illanox Tech us X n tables sup ble assemb bes supporte mbly types i d by each P mbly types i rpe". e language e PHY type	nologie oport floors, ev by types suppo ed by each PH used by each of HY type", or for each of the in the first sent s operating over	ren if the opposite is true orted by each of the PHY Y type" to: of the PHY types", PHY types", "Table 110 tence of the same
medium is beyond the sco Proposed Response F Cl 093A SC 93A.1 Healey, Adam Comment Type E The title of Annex 83D in t Unit Interface (CAUI-4)" ar inclusion of "C2C" in the reference SuggestedRemedy Align the reference in Tabl	P 211 P 211 Broadcom Ltd. Comment Status X the base standard is "Chip-to- nd has not been modified by t eference doesn't seem to be a le 93A-2 with the title of the A	<i>L</i> 31 chip 100 Gb/s this amendme appropriate.	# <u>r01-8</u> s four-lane Attachment ents. As a result, the	Cl 110 Dawe, Piers Comment T PHYs d SuggestedF Change types", ' "Table 1 "Table 1 2Cable Or say i paragra assemb Or	SC 110.1 J G ppe E pon't suppor eemedy "Table 110 Table 110 10-2 summ 10-2Cab 10-2 summ a assembly in the action: "Table y types", " 10-2 summ	t cable D-2 sur -2Ca narize: le asse narize: types ve voi = 110-2 Table narize:	Me Comment Stat es, any more that mmarizes the ca ble assembly ty s the cable asse embly types use s the cable asse for each PHY type ce and match th 2 summarizes th 110-2PHY type	P 145 Illanox Tech us X n tables sup ble assemb bes supporte mbly types i d by each P mbly types i rype". e language e PHY type: as operating mbly types of	nologie oport floors, ev ly types suppo ed by each PH used by each of HY type", or for each of the in the first sent s operating ow over each cat	ren if the opposite is true orted by each of the PHY Y type" to: of the PHY types", PHY types", "Table 110 tence of the same er each of the cable

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/generalC/110Page 3 of 8COMMENT STATUS: D/dispatched A/accepted R/rejectedRESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawnSC110.12016-02-26 7:48:35 AMSORT ORDER: Clause, Subclause, page, lineSORT ORDER: Clause, Subclause, page, lineSC110.1SC110.1

C/ 110 SC 110.8.3 P 153 L 18 # [r01-16] Dudek, Michael QLogic Corporation P 153 L 18 Dudek P 153 L 18 P 153 L 18 <td< th=""><th>C/ 110 SC 110.8.4.2.1 P 156 L 4 # r01-21 Dawe, Piers J G Mellanox Technologie Mellanox</th></td<>	C/ 110 SC 110.8.4.2.1 P 156 L 4 # r01-21 Dawe, Piers J G Mellanox Technologie Mellanox
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	Comment Type E Comment Status X There's an arrow from Transmitter control to Rx under test
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 Shouldn't it point the other way?
SuggestedRemedy	Proposed Response Response Status O
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	C/ 110 SC 110.8.4.2.1 P 156 L 9 # r01-22 Dawe, Piers J G Mellanox Technologie Mellanox Technologie Image: Compare the second secon
29dB for all three cables.	Comment Type T Comment Status X
Proposed Response Response Status O Cl 110 SC 110.8.3 P 153 L 18 # [r01-19] Dawe, Piers J G Mellanox Technologie	The placing of the three test points in these figures is not consistent. Also, measuring a waveform at the output of a pattern generator isn't practical unless you have a scope with small remote head. But measuring the insertion loss at the "frequency dependent attenuator" (a PCB) is practical because network analysers have their own special cables that are calibrated out, and measuring a waveform at the output of a connecting cable is also practical.
Comment Type TR Comment Status X	SuggestedRemedy
dudek_022416_25GE_adhoc.pdf says that the draft spec is not self consistent. SuggestedRemedy Increase linear fit pulse peak (min.) from 0.45 x vf to 0.5 x vf, do not change Gdc. Alternatively, add a 16 ps Gaussian filter to COM, and reduce the cable lengths and losses, do not change Gdc.	Move the "Tx test reference" from the output of "Pattern generator and noise injection" to the input of "Frequency dependent attenuator" in both Figure 110-3a and Figure 110-3b. Then it will be conistent with the Rx test reference and the cable assembly measurement (TP1, TP4) better.Proposed ResponseResponse StatusO
Or a combination.	
Or a combination.	C/ 110 SC 110.8.4.2.3 P 155 L 45 # r01-20 Dawe, Piers J G Mellanox Technologie Mellano
Or a combination. Proposed Response Response Status O Cl 110 SC 110.8.4.1 P 153 L 36 # r01-5	
Or a combination. Proposed Response Response Status O Cl 110 SC 110.8.4.1 P 153 L 36 # r01-5 Healey, Adam Broadcom Ltd.	Dawe, Piers J G Mellanox Technologie Comment Type E Comment Status X Use consistent terminology: compare the language in 110.7.1. SuggestedRemedy Change "test references" to "test points" here and in 110.8.4.2.3, change "Tx test
Or a combination. Proposed Response Response Status O Cl 110 SC 110.8.4.1 P 153 L 36 # r01-5 Healey, Adam Broadcom Ltd. Comment Type T Comment Status X	Dawe, Piers J G Mellanox Technologie Comment Type E Comment Status X Use consistent terminology: compare the language in 110.7.1. SuggestedRemedy

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 110.8.4.2.3 Page 4 of 8 2016-02-26 7:48:35 AM

C/ 110 SC 110.8.4.2.3 P 156 L 29 # r01-23	C/ 110 SC 110.8.4.2.3 P 156 L 42 # r01-25
Dawe, Piers J G Mellanox Technologie	Dawe, Piers J G Mellanox Technologie
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 associate with a receiver, except the one in the network analyser: it's more output than Rx. SuggestedRemedy So we must call it TP4, as in Figure 110-2.	model Transmission line length, Test 1 i.e. no "receiver". In this subclause, the on device package model is the receiver one because item d tells us to omit the transmitte 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"
Cl 110 SC 110.8.4.2.3 P 156 L 42 # r01-24 Dawe, Piers J G Mellanox Technologie	Proposed Response Response Status O
Comment Type T Comment Status X	C/ 110 SC 110.8.4.2.3 P 156 L 44 # r01-15
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.	Mellitz, Richard Intel Corporation
has Test 1 (low loss) and Test 2 (high loss) in the tables. While in practice, Test 2 rece device package model transmission line length goes with Test 2 (high loss), this doesn't	er Comment Type T Comment Status X There does not seem to be a way to determine where to use SCHSp and how it relates
 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. <i>PuggestedRemedy</i> 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 received package model transmission line lengths listed in Table 110-11." In Table 110-11, change "Transmission line length, Test 1 Transmission line length, Test 1 	There does not seem to be a way to determine where to use SCHSp and how it relates Sp. SuggestedRemedy change: d) The transmitter device package model S(tp) is omitted from the calculation to: d) Sp is determined from equation 93A-3 by substituting SCHSp for S except that th transmitter device package model S(tp) is omitted from the calculation of Sp. er Proposed Response Response Status 0
 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. <i>tuggestedRemedy</i> 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 receive device package model transmission line lengths listed in Table 110-11.". In Table 110-11, change "Transmission line length, Test 1 Transmission line length, Te 2" to "Transmission line length A Transmission line length B" or to "Transmission line length L". 	There does not seem to be a way to determine where to use SCHSp and how it relates Sp. SuggestedRemedy change: d) The transmitter device package model S(tp) is omitted from the calculation to: d) Sp is determined from equation 93A-3 by substituting SCHSp for S except that th transmitter device package model S(tp) is omitted from the calculation of Sp. Proposed Response Response Status O t C/ 110 SC 110.8.4.2.3 P 157 L 3 # <u>r01-26</u>
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. <i>uggestedRemedy</i> 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 recei- device package model transmission line lengths listed in Table 110-11.". In Table 110-11, change "Transmission line length, Test 1 Transmission line length, Te 2" to "Transmission line length A Transmission line length B" or to "Transmission line length S Transmission line length L" . p 161 lines 32-34, rename "Test 1 and Test 2" to ""Transmission line lengths A and B" (There does not seem to be a way to determine where to use SCHSp and how it relates Sp. SuggestedRemedy change: d) The transmitter device package model S(tp) is omitted from the calculation 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. er Proposed Response Response Status O t C/ 110 SC 110.8.4.2.3 P 157 L 3 # rol-26
 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. 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 receid device package model transmission line lengths listed in Table 110-11.". In Table 110-11, change "Transmission line length, Test 1 Transmission line length, Te 2" to "Transmission line length A Transmission line length B" or to "Transmission line length L". p 161 lines 32-34, rename "Test 1 and Test 2" to ""Transmission line lengths S and L"). Similarly in 111.8.3.1, 111.9.1, 111.9.2 and Table 111-8. 	There does not seem to be a way to determine where to use SCHSp and how it relates Sp. SuggestedRemedy change: d) The transmitter device package model S(tp) is omitted from the calculation 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. er Proposed Response Response Status O t CI 110 SC 110.8.4.2.3 P 157 L 3 # rol-26 T Dawe, Piers J G Mellanox Technologie 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. 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 receive package model transmission line lengths listed in Table 110-11." to "COM is calculated using both receive package model transmission line lengths listed in Table 110-11.". In Table 110-11, change "Transmission line length, Test 1 Transmission line length, Test 1 Transmission line length A Transmission line length B" or to "Transmission line length L". p 161 lines 32-34, rename "Test 1 and Test 2" to ""Transmission line lengths A and B" ("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. 	Image:
 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. 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 receive package model transmission line lengths listed in Table 110-11." to "COM is calculated using both receive package model transmission line lengths listed in Table 110-11.". In Table 110-11, change "Transmission line length, Test 1 Transmission line length, Test 1 Transmission line length A Transmission line length B" or to "Transmission line length L". p 161 lines 32-34, rename "Test 1 and Test 2" to ""Transmission line lengths A and B" ("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. 	There does not seem to be a way to determine where to use SCHSp and how it relates Sp. SuggestedRemedy change: d) The transmitter device package model S(tp) is omitted from the calculation 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. er Proposed Response Response Status O t Cl 110 SC 110.8.4.2.3 P 157 L 3 # r01-26 T Dawe, Piers J G 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 hadone 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

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 110.8.4.2.3 Page 5 of 8 2016-02-26 7:48:35 AM

C/ 110 SC 110.8.4.2.5 P 157 L 31 # r01-6	C/ 110 SC 110.10 P 159 L 13 # r01-28					
Healey, Adam Broadcom Ltd.	Dawe, Piers J G Mellanox Technologie					
Comment Type T Comment Status X	Comment Type TR 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."	As D3.0 comment 86 and sella_022416_25GE_adhoc.pdf: I don't see a good reason for breaking the consensus of the September meeting, which was 15 dB for a 2.75 m cable. 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 connector loss is taken into account. SuggestedRemedy					
uggestedRemedy	Change 15.5 dB to 16 dB for CA-25G-N.					
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	Alternatively change 3 m back to 2.75 m, or adopt an asymmetric host loss for 25GBASE- SR no-FEC mode.					
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 summarized in	Proposed Response Response Status O					
Table 110-7 and Table 110-8. For a 25GBASE-CR PHY, additional requirements are summarized in Table 110-6."	C/ 110 SC 110.10.7 P 160 L 14 # r01-29					
roposed Response Response Status O	Dawe, Piers J G Mellanox Technologie					
	Comment Type T Comment Status X					
V 110 SC 110.10 P 158 L 45 # r01-27 awe, Piers J G Mellanox Technologie	While researching D3.0 comment 86, I noticed that 3A.1.1 recommends that the scattering 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).					
omment Type TR Comment Status X	SuggestedRemedy					
"achievable cable length of at least 5 m" excludes achievable cable lengths of less than 5 m. The NOTE here and, and Table 110C-1 footnote a, say "It may be possible to construct compliant cable assemblies longer than indicated. Length of a cable assembly does not	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 <= 25 GHz, to 0.01 <= f <= 25.79 GHz.					
imply compliance to specifications." So, acheivable lengths shorter than 5 m are not within the spec, and actual lengths are longer than the achievable lengths. Not shorter. As the market demands cables with actual lengths shorter than 5 m or 3 m, this wording is	Proposed Response Response Status O					
unhelpful. Also, this text doesn't agree with Table 110C, which has achievable lengths of 5 m and 3	C/ 110 SC 110.10.7 P 161 L 12 # r01-30					
m, not at least 5 m and 3 m.	Dawe, Piers J G Mellanox Technologie					
lggestedRemedy	Comment Type TR Comment Status X					
Delete "at least" three times here. Change "It may be possible to construct compliant cable assemblies longer than indicated" to "It may be possible to construct compliant cable assemblies that are shorter or longer	dudek_022416_25GE_adhoc.pdf says that the TxSNR we use for COM for CA-25G-L and CA-25G-S is not consistent with the required SNDR, taking into account any differences i test point.					
	SuggestedRemedy					
than these achievable cable lengths" here and at Table 110C-1 footnote a.						
	Increase TxSNR for CA-25G-S and CA-25G-L from 27 dB to 29 dB. Should the TxSNR fo CA-25G-N also be increased, from 28.4 to 29 dB?					

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/generalC/110Page 6 of 8COMMENT STATUS: D/dispatched A/accepted R/rejectedRESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawnSC 110.10.72016-02-26 7:48:35 AMSORT ORDER: Clause, Subclause, page, line

C/ 110 SC 110.10.7	-	L 1	# r01-7	C/ 110B	SC 110B.1.2		-	1	# <u>r01-33</u>
Healey, Adam	Broadcom Ltd.			Dawe, Pier	rs J G	Mellar	iox Technologi	е	
SuggestedRemedy	Comment Status X) is used in Equation 110-1 but the defintion of cascade() in an <i>Response Status</i> O			(15.5 c neede the pro loss is loss of	.0 comment 86 dB, 3 m cable) c d, when the allo bblem appears t high and the M f an actual test f	Comment Status and sella_022416_250 on't work for affordabl wed variation in MCB o be the way the MCB CB PCB loss is low, a ixture and the reference urement error rather th	GE_adhoc.pdf: e (= high yieldi connector loss loss is calibra ccounting for d e insertion los	ng) 26 AV is taken i ted out: if lifferences s in the re	VG which is what's nto account. Part of the MCB connector between the insertion
where the reference te SuggestedRemedy	P 234 Mellanox Techr Comment Status X e reference test fixture insertion est fixture insertion loss of the M nowing the two reference test fix Response Status O	n loss of the H ICB (Eq 92-35) is illustrated.	(which measu accour To do the wh even M Anothe	nt for MCB loss is required info irement of a rep nted for. this we need to ole of the MCB MCB makers. er way to procee in IL for the who	by adjusting the MCB rmation in 92.11.1.2 a lica channel). So vari- define a reference IL t or the MCB connector ed would be to leave the ple of the MCB or the I <i>Response Status</i>	nyway and can ance in MCB c or the MCB-H(). This need n e accounting f MCB connecto	n be obtair connector I CB mated lot be bind	ned from a loss would be pair (or equivalently, ling on anyone, not
				C/ 111 Dawe, Pier	SC 111.8.2 rs J G	P 18 Mellar	1 L lox Technologi	. 4 ie	# <u>r01-31</u>
						Comment Status _adhoc.pdf says that t		s not self	consistent. As option
				Suggested	lRemedy				
						e peak (min.) from 0.7 ge the channel lengths			•

Proposed Response Response Status **O**

C/ 111 SC 111.8.2

C/ 111	SC 1	111.8.2	P 181	L 5	# <u>r01-17</u>
Dudek, Mi	chael		QLogic Corp	oration	
Comment	Туре	TR	Comment Status X		
specif There	ication for have be	or the tran en three	_3by_0116 there is a hole i smitter is more relaxed tha further presentations on this ch plenary.	n the effective ra	atio used in COM.
Suggested	dRemed	V			
0.75." define a 12ps	Add to d in equ s risetim	the Tx us ation 93A e Tx filter	ment after 93.8.1.7 add "ex ed in COM in annex 93A ar -46 with beta of 2 (default n is used. In table 111-8 (or alues to 0.63 and the gDC	option to add a o filter). State o page 184) cha	Gaussian filter as on page 183 line 25 that
Proposed	Respon	se	Response Status O		
C/ 111	SC 1	11.9.2	P 184	L 41	# r01-34
Mellitz, Rid	chard		Intel Corpora	tion	
	le 111-8		Comment Status X ter differential peak output v ax voltage.	oltage does not	math transmitter
Suggestee	dRemed	V			
Chang	ge Av=0.	44, Afe=0).65, Ane=0.65		
Proposed	Respon	se	Response Status O		
<i>Cl</i> 112 Marris, Art		112.9	P 202 Cadence Des	L 26 sign Syste	# r01-2
<i>Comment</i> Remo		E rs note as	Comment Status X s it says it is to be removed	in the next draft	
Suggested Remo	-	•	it says it is to be removed	in the next draft	
Proposed	Respon	se	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: Clause, Subclause, page, line

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