

IEEE 802.3by D2.1 25 Gb/s Ethernet 1st Working Group recirculation ballot comments

Cl 045 SC 45.2.1.2.3 P 30 L 42 # 26
 Anslow, Pete Ciena

Comment Type E Comment Status D bucket

The references in "45.2.1.19, 45.2.1.42, 45.2.1.43, and 45.2.1.58." should be in forest green.

SuggestedRemedy

Re-number Table 45-17c to Table 45-17b

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

The comment is not related to the substantive changes between IEEE P802.3by/D2.1 and IEEE P802.3by/D2.0 or the unsatisfied negative comments from the initial ballot and is therefore out of scope.

The suggested remedy was probably intended for comment #25.

Make references "45.2.1.19, 45.2.1.42, 45.2.1.43, and 45.2.1.58" be in forest green.

Cl 045 SC 45.2.1.6 P 33 L 5 # 19
 Anslow, Pete Ciena

Comment Type E Comment Status D bucket

The entries in Table 45-7 do not reflect the changes that IEEE Std 802.3bw-201x (which has completed Sponsor Ballot) is making to bits 1.7.5:0

SuggestedRemedy

Change the editing instruction to:
 "Change the indicated row of Table 45-7 (as modified by IEEE Std 802.3bw-201x) for 25G PMA/PMD selection as follows (unchanged rows not shown):"
 Replace the row "1 1 x x x = reserved" (in strikethrough font) with "1 1 1 0 x x = reserved for future use" (in strikethrough font)
 Remove the row "1 1 0 x x x = reserved"

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Implement suggested remedy and also delete editor's note on line 6 page 32 as the row "1 1 0 x x x = reserved" will be removed.

Cl 045 SC 45.2.1.14c P 36 L 1 # 25
 Anslow, Pete Ciena

Comment Type E Comment Status D bucket

The editing instruction says "Insert 45.2.1.14c and 45.2.1.14c.1 through 45.2.1.14c.5 after 45.2.1.14b as inserted by IEEE Std 802.3bw-201x as follows:" but the subclause inserted by the P802.3bw draft has been changed to be 45.2.1.14a.
 Also, the Table inserted by the P802.3bw draft is now Table 45-17a.

SuggestedRemedy

Change the editing instruction to: "Insert 45.2.1.14b and 45.2.1.14b.1 through 45.2.1.14b.5 after 45.2.1.14a as inserted by IEEE Std 802.3bw-201x as follows:" and re-number the new subclauses accordingly.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Implement suggested remedy and also change table number to Table 45-17b from Table 45-17c

Cl 045 SC 45.2.1.97 P 38 L 48 # 20
 Anslow, Pete Ciena

Comment Type E Comment Status D bucket

In the editing instruction on line 48, "45.2.1.95" should be "45.2.1.97"

SuggestedRemedy

Change "45.2.1.95" to "45.2.1.97"

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 045 SC 45.2.3.2.7 P 42 L 8 # 27
 Anslow, Pete Ciena

Comment Type E Comment Status D bucket

"Change second sentence of 45.2.3.2.7 as follows:" should be "Change the third sentence of 45.2.3.2.7 as follows:"

SuggestedRemedy

Change "Change second sentence of 45.2.3.2.7 as follows:" to "Change the third sentence of 45.2.3.2.7 as follows:"

Proposed Response Response Status W

PROPOSED ACCEPT.

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Cl 045 SC **45.2.3.13.1** P **44** L **36** # **22**
 Anslow, Pete Ciena
 Comment Type **E** Comment Status **D** bucket
 Missing "of" in "Change last sentence 45.2.3.13.1 as follows:"
 SuggestedRemedy
 Change to "Change last sentence of 45.2.3.13.1 as follows:"
 Proposed Response Response Status **W**
 PROPOSED ACCEPT.

Cl 069 SC **69.2.3** P **52** L **7** # **85**
 Dawe, Piers Mellanox
 Comment Type **E** Comment Status **D** bucket
 This Table 69-1a has a header "Clause" while Table 105-2 has "Clause/Annex". While the latter seems more correct, the base document and P802.3bs/D1.0 use the former.
 SuggestedRemedy
 Change this one to Clause/Annex, and log a maintenance request or remember to submit a comment on the next revision. Or change the other to Clause.
 Proposed Response Response Status **W**
 PROPOSED ACCEPT IN PRINCIPLE.
 The comment is not related to the substantive changes between IEEE P802.3by/D2.1 and IEEE P802.3by/D2.0 or the unsatisfied negative comments from the initial ballot and is therefore out of scope.
 For consistency with similar tables in the base document, in Table 105-2 change "Clause/Annex" to "Clause".

Cl 069 SC **69.2.3** P **52** L **8** # **84**
 Dawe, Piers Mellanox
 Comment Type **E** Comment Status **D** bucket
 "74" should be a hot link, like the others.
 SuggestedRemedy
 Per comment.
 Proposed Response Response Status **W**
 PROPOSED ACCEPT.

The comment is not related to the substantive changes between IEEE P802.3by/D2.1 and IEEE P802.3by/D2.0 or the unsatisfied negative comments from the initial ballot and is therefore out of scope.

Cl 073 SC **73.6.4** P **55** L **5** # **11**
 Ran, Adee Intel
 Comment Type **E** Comment Status **D** bucket
 "interoperation" as one word is commonly used in 802.3.
 Also, "likewise" in the previous sentence seems odd, should it be "and likewise", or just "and"?
 SuggestedRemedy
 Delete the hyphen in "inter-operation".
 Consider rewording "likewise".
 Proposed Response Response Status **W**
 PROPOSED ACCEPT IN PRINCIPLE.
 Delete the hyphen in "inter-operation".
 Change "likewise" to "and likewise".

Cl 078 SC **78.1.3.3.1** P **72** L **38** # **28**
 Marris, Arthur Cadence Design Syste
 Comment Type **E** Comment Status **D** bucket
 The first and last sentences of the last paragraph of 78.1.3.3.1 do not match the modification made by 802.3bq.
 SuggestedRemedy
 Change to:
 "Except for BASE-T, for PHYs with an operating"
 and:
 "Except for BASE-T PHYs, fast wake support is mandatory"
 Proposed Response Response Status **W**
 PROPOSED ACCEPT.

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Cl 108 SC **108.5.2.4** P **106** L **4** # **18**
 Slavick, Jeff Avago Technologies
 Comment Type **E** Comment Status **D** bucket
 Don't think the , should be there
 [The commenter did not provide a comment type. The editor set the CommentType to "E"]
 SuggestedRemedy
 Remove the ,
 Proposed Response Response Status **W**
 PROPOSED ACCEPT.

Cl 108 SC **108.5.3.6** P **110** L **41** # **9**
 Ran, Adeel Intel
 Comment Type **E** Comment Status **D** bucket
 Editor's note has served its purpose.
 SuggestedRemedy
 Delete editor's note.
 Proposed Response Response Status **W**
 PROPOSED ACCEPT.

Cl 108 SC **108.7.3** P **121** L **6** # **94**
 Andrewartha, Mike Microsoft
 Comment Type **E** Comment Status **D** bucket
 The first two items, *KR and *CR, refer to the opposite PHY in the Feature column. Item *KR lists feature 25GBASE-CR with Value/Comment "Used to Form a complete 25GBASE-KR PHY". Item *CR lists feature 25GBASE-KR with Value/Comment "Used to Form a complete 25GBASE-CR PHY". These seem backwards. Item and feature should match.
 SuggestedRemedy
 Change Item *KR Feature column entry to 25GBASE-KR.
 Change Item *CR Feature column entry to 25GBASE-CR.
 Proposed Response Response Status **W**
 PROPOSED ACCEPT.

The comment is not related to the substantive changes between IEEE P802.3by/D2.1 and IEEE P802.3by/D2.0 or the unsatisfied negative comments from the initial ballot and is therefore out of scope.

The comment highlights an obvious error that should be corrected.

Use suggested remedy.

Cl 110 SC **110.8.4.2** P **147** L **2** # **58**
 Dudek, Mike QLogic
 Comment Type **T** Comment Status **D** bucket
 It is not really the COM values that are meant here.
 SuggestedRemedy
 Replace "COM values" with "COM parameter values" (3 places).
 Proposed Response Response Status **W**
 PROPOSED ACCEPT.

Cl 110 SC **110.8.4.2** P **147** L **19** # **71**
 Dawe, Piers Mellanox
 Comment Type **E** Comment Status **D** bucket
 (In the following, # means the square root "radical" symbol)
 Section 6 uses dB/#GHz four times, dB/GHz^{1/2} twice and ns^{1/2}/mm twice. Section 5 has a square root in Eq. 69B-6 and does not use Hz^{1/2}. Earlier sections use neither, I think. Square root is listed in the table of "Special symbols and operators" in IEEE Std 802.3-2012, which used to be included in each draft.
 We can't make things fully consistent by changes in P802.3by, but to make the document usable we should match clauses 92 and 93 exactly.

SuggestedRemedy
 Change dB/GHz^{1/2} back, in 3 cases, to dB/#GHz to match the base standard. Leave the other three, to match the base standard.
 A consolidation across 802.3 can be done in maintenance.

Proposed Response Response Status **W**
 PROPOSED REJECT.

dB/GHz^{1/2} is technically correct and has precedence.

Being consistent within this amendment would be the first step for future consistency in the full standard, which could be done through maintenance.

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Cl 110 SC 110.8.4.2 P 147 L 33 # 2
 Krishnasamy, Kumaran Broadcom

Comment Type T Comment Status D bucket

Footnote "b" below Table 110-5 (thru Table 110-7) referring to Figure 92-10.

[The commenter did not enter comment type. Editor set comment type to "T".]

SuggestedRemedy

Refer to Figure 110-4.

Proposed Response Response Status W

PROPOSED ACCEPT.

The comment is not related to the substantive changes between IEEE P802.3by/D2.1 and IEEE P802.3by/D2.0 or the unsatisfied negative comments from the initial ballot and is therefore out of scope.

However, it highlights an obvious error that should be corrected.

Change "Figure 92-10" to a cross-reference to Figure 100-4 in footnotes of tables 110-5, 110-6, and 110-7.

Cl 110 SC 110.8.4.2.2 P 149 L 23 # 67
 Krishnasamy, Kumaran Broadcom

Comment Type E Comment Status D bucket

If a reference to test points (TP1-TP4) and to Table 110-10 are added in a), where it says "A cable assembly that meets the cable assembly COM....", then it will reduce a lot of confusion between the cable assembly alone COM calculation and the test channel COM calculation with exeptions in line #49.

SuggestedRemedy

a) A cable assembly (measured between TP1 and TP4) that meets the cable assembly COM specified for the test being performed per Table 110-10.

OR

a) A cable assembly that meets the cable assembly COM specified for the test being performed (see 110.10).

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

The comment is not related to the substantive changes between IEEE P802.3by/D2.1 and IEEE P802.3by/D2.0 or the unsatisfied negative comments from the initial ballot and is therefore out of scope.

The second option in the suggested remedy suggests a useful cross-reference. In addition the cable assembly test fixture annex should be referenced.

In item a), insert "(See 110.10)" after "A cable assembly".

In item b), insert "(See 110B.1.2 and 92.11.2)" after "A cable assembly test fixture".

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Cl 110 SC 110.8.4.2.3 P 149 L 29 # 76
 Dawe, Piers Mellanox

Comment Type E Comment Status D bucket

There's only one test channel to be calibrated for a serial PHY's receiver. While we are here, not sure what "characterized at" means. What character? This is simpler than bj, just one s4p measurement. Are we not allowed to use and de-embed the VNA cables?

SuggestedRemedy

Change
 The scattering parameters of the test channels are characterized at the test references...
 to
 The scattering parameters of the test channel are measured [or determined] with respect to the test references...

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.
 The comment is not related to the substantive changes between IEEE P802.3by/D2.1 and IEEE P802.3by/D2.0 or the unsatisfied negative comments from the initial ballot and is therefore out of scope.

The comment highlights an obvious error that should be corrected.

Change "channels" to "channel".
 Change "characterised" to "measured".

Cl 110 SC 110.8.4.2.3 P 149 L 51 # 3
 Krishnasamy, Kumaran Broadcom

Comment Type E Comment Status D bucket

The outer "cascade" operator is redundant in the equation SCHSp = cascade(cascade(S(ctsp),S(hosp))).

SuggestedRemedy

Replace with SCHSp = cascade(S(ctsp),S(hosp)).

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

The comment is not related to the substantive changes between IEEE P802.3by/D2.1 and IEEE P802.3by/D2.0 or the unsatisfied negative comments from the initial ballot and is therefore out of scope.

However, it highlights an obvious error that should be corrected.

See #31.

Cl 110 SC 110.8.4.2.3 P 149 L 51 # 31
 Omer Sella Mellanox Technologie

Comment Type E Comment Status D bucket

It appears that there is a copy-paste issue here: cascade(x,y) is a function of two variables. However, it says in line 51: cascade(cascade(S^(CTSP),S^(HOSP))) so the outer cascade is an erroneous syntax here.

SuggestedRemedy

Remove the outer cascade and brackets.

Proposed Response Response Status W

PROPOSED ACCEPT.

The comment is not related to the substantive changes between IEEE P802.3by/D2.1 and IEEE P802.3by/D2.0 or the unsatisfied negative comments from the initial ballot and is therefore out of scope.

However, it highlights an obvious error that should be corrected.

Apply the suggested remedy.

Cl 110 SC 110.10.7 P 154 L 7 # 90
 Dawe, Piers Mellanox

Comment Type E Comment Status D bucket

Names of parameters in Table 110-10, COM parameter values for CA-25G-N CA-25G-S and CA-25G-L, and Table 111-8, COM parameter values for 25GBASE-KR 25GBASE-KR-S channels, should exactly match the master, 93A.1 and particularly Table 93A-1, COM parameters. They don't have to be descriptive.

SuggestedRemedy

Change "Alien far-end aggressor" to "Far-end aggressor" in each table.

Proposed Response Response Status W

PROPOSED ACCEPT.

Apply the suggested change in both Clause 110 and Clause 111.

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Cl **110B** SC **110B.1.3.6** P **228** L **50** #
Dudek, Mike QLogic
Comment Type **E** Comment Status **D** bucket
We are calling it "integrated near-end crosstalk everywhere else."
SuggestedRemedy
Change "integrated crosstalk" to "integrated near-end crosstalk" on line 50.
Proposed Response Response Status **W**
PROPOSED ACCEPT.

Cl **110B** SC **110B.1.3.6** P **228** L **50** #
Dawe, Piers Mellanox
Comment Type **E** Comment Status **D** bucket
Equation (110B-1) through Equation (110B-2)
SuggestedRemedy
Equation (110B-1) and Equation (110B-2)
Proposed Response Response Status **W**
PROPOSED ACCEPT.