

IEEE P802.3bz D3.0 2.5G/5GBASE-T Initial Sponsor ballot comments

Cl **FM** SC **FM** P **1** L **27** # **i-13**  
 Anslow, Peter Ciena Corporation  
 Comment Type **E** Comment Status **D** EZ  
 http://www.ieee802.org/3/WG\_tools/editorial/requirements/words.html has:  
 Physical Layer (always capped)  
 SuggestedRemedy  
 Capitalise Physical Layer:  
 Page 1, line 27  
 Page 2, line 2  
 Page 10, line 46  
 Proposed Response Response Status **W**  
 PROPOSED ACCEPT.

Cl **FM** SC **FM** P **1** L **29** # **i-14**  
 Anslow, Peter Ciena Corporation  
 Comment Type **E** Comment Status **D** EZ  
 The draft is now in Sponsor ballot, not WG ballot  
 SuggestedRemedy  
 Change "Working Group Ballot" to "Sponsor ballot"  
 Proposed Response Response Status **W**  
 PROPOSED ACCEPT.

Cl **126** SC **126.3.6.1** P **108** L **5** # **i-43**  
 Anslow, Peter Ciena Corporation  
 Comment Type **E** Comment Status **D** EZ  
 "is comprised of" is poor English.  
 SuggestedRemedy  
 Change to "is composed of"  
 Proposed Response Response Status **W**  
 PROPOSED ACCEPT.

Cl **126** SC **126.3.6.2.2** P **109** L **5** # **i-73**  
 Zimmerman, George Aquantia, and CommS  
 Comment Type **E** Comment Status **D** EZ  
 Variables such as rx\_raw<71:0> are already defined using ranges of bits. "RXC<0>  
 through RXC<3>" can be shortened to "RXC<3:0>", and similarly for the ranges of rx\_raw  
 bits and RXD bits. This will make the definition shorter and clearer, without need for  
 repeating "respectively".  
 Similarly for the text in the definition of tx\_raw<71:0> (L18).  
 SuggestedRemedy  
 Per comment.  
 Proposed Response Response Status **W**  
 PROPOSED ACCEPT.

Cl **126** SC **126.4.2.2.1** P **122** L **46** # **i-4**  
 Rolfe, Benjamin Blind Creek Associate  
 Comment Type **ER** Comment Status **D** EZ  
 "EEE-capable PHYs shall implement a PMA Transmit function that generates the alert  
 signal as defined in  
 126.4.2.2.1." is wordy and suggests verification of an implementation method rather than  
 an externally visible behavior.  
 SuggestedRemedy  
 change to:  
 "EEE-capable PHYs shall generate the alert signal as defined in  
 126.4.2.2.1."  
 Proposed Response Response Status **W**  
 PROPOSED ACCEPT.

Cl **126** SC **126.4.2.2** P **122** L **47** # **i-5**  
 Rolfe, Benjamin Blind Creek Associate  
 Comment Type **E** Comment Status **D** EZ  
 "PHYs that support the fast retrain capability shall implement a PMA Transmit function that  
 generates the link failure signal as defined in  
 126.4.2.2.2." is wordy and not very good normative language.  
 SuggestedRemedy  
 Change to:  
 PHYs that support the fast retrain capability shall generate  
 the link failure signal as defined in 126.4.2.2.2.  
 Proposed Response Response Status **W**  
 PROPOSED ACCEPT.

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CI 126 SC 126.4.2.5.16 P 134 L 32 # i-3  
 Rolfe, Benjamin Blind Creek Associate

Comment Type TR Comment Status D EZ

"shall implement" in this context is difficult to verify, as it requires inspecting the code of the implementation. Elsewhere the term "shall conform to" is used in similar context, and is much better as it suggests the a verifiable behavior produced by the implementation.

SuggestedRemedy

Change "shall implement" to "shall conform to"

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 126 SC 126.5.2 P 149 L 23 # i-44  
 Anslow, Peter Ciena Corporation

Comment Type E Comment Status D EZ

In "Pseudo random test mode" the "Pseudo-random" should be hyphenated.  
 In 126.8.2.2 page 176, line 29 "pseudo random data" should be "pseudo-random data"

SuggestedRemedy

Change "Pseudo random" to "Pseudo-random".  
 On page 176, line 29 change "pseudo random data" to "pseudo-random data"

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 126 SC 126.5.2 P 150 L 39 # i-10  
 Rolfe, Benjamin Blind Creek Associate

Comment Type E Comment Status D EZ

While recycling and reuse is laudable, in this context "use" is more correct use of the English language than "reuse".

SuggestedRemedy

change "reuse" to "use"

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 126 SC 126.5.4.3 P 156 L 18 # i-45  
 Anslow, Peter Ciena Corporation

Comment Type E Comment Status D EZ

There should be a non-breaking space (Ctrl space) between a number and its unit.

SuggestedRemedy

Change 6dBm to 6 dBm using a non-breaking space.

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 126 SC 126.7.2.4 P 165 L 24 # i-91  
 Moffitt, Bryan CommScope

Comment Type E Comment Status D EZ

should be plural

SuggestedRemedy

change "is specified" to "are specified"

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 126 SC 126.7.2.4.1 P 165 L 32 # i-46  
 Anslow, Peter Ciena Corporation

Comment Type ER Comment Status D EZ

The value specified in 126.5.4.1 is 10<sup>-12</sup>, so it is a bit error ratio not a bit error rate (errors per unit time).

SuggestedRemedy

Change "bit error rate" to "bit error ratio"

Proposed Response Response Status W

PROPOSED ACCEPT.

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Cl 126 SC 126.7.3.1 P 169 L 16 # i-47  
 Anslow, Peter Ciena Corporation

Comment Type E Comment Status D EZ

IEEE does not capitalise titles or abbreviation expansions unless they are proper nouns.  
 Signal-to-noise should be hyphenated

SuggestedRemedy

In the title of 126.7.3.1, change "Alien Crosstalk Limited Signal-to-Noise Ratio Criteria" to "Alien crosstalk limited signal-to-noise ratio criteria".  
 On page 174, line 24 change "the Alien Signal to Noise Ratio" to "the alien signal-to-noise ratio"

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 126 SC 126.7.3.1 P 170 L 1 # i-94  
 Moffitt, Bryan CommScope

Comment Type E Comment Status D EZ

Seems like the table is positioned in the middle of an unrelated paragraph.

SuggestedRemedy

move up to p169 l52

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.  
 Editor to beat on frame and reposition Table 126-20 so that it does not break up text.

Cl 126 SC 126.7.3.1 P 170 L 28 # i-95  
 Moffitt, Bryan CommScope

Comment Type E Comment Status D EZ

this sentence is runon

SuggestedRemedy

change to:TemplatePSDdisturbedi, is provided by Table 126-21, according to which application is running on the disturbed link segment. This must be calculated over the frequency range selected in Step 1.

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 126 SC 126.7.3.1 P 173 L 50 # i-101  
 Moffitt, Bryan CommScope

Comment Type E Comment Status D EZ

wrong reference

SuggestedRemedy

should say: together at each frequency point using Equation (126-35).

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 126 SC 126.7.3.1 P 174 L 19 # i-48  
 Anslow, Peter Ciena Corporation

Comment Type E Comment Status D EZ

minus signs should be em-dashes

SuggestedRemedy

In Table 126-23, change the minus signs to em-dashes (Ctrl-q shift P)

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 126 SC 126.7.3.1 P 174 L 28 # i-104  
 Moffitt, Bryan CommScope

Comment Type E Comment Status D EZ

result is not a function of frequency

SuggestedRemedy

remove frequency dependence

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl AnnexA SC exA P 191 L 1 # i-58  
 Laubach, Mark Broadcom Limited

Comment Type E Comment Status D EZ

The editor's note was not followed when constructing Draft 3.0. Annex A should have been removed from the draft as it contains no new bibliographic entries.

SuggestedRemedy

Follow the instructions in the editor's note.

Proposed Response Response Status W

PROPOSED ACCEPT.

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CI 31B SC 31B.3.7 P 197 L 25 # i-76  
 Zimmerman, George Aquantia, and CommS

Comment Type T Comment Status D EZ

The text listed here is not aligned with the updated text in 802.3-2015. Specifically, all instances of "pause\_quantum bit times" should be "pause\_quanta" instead.

The added paragraphs should be modified similarly.

Comment also applies to 31B.4.6 PICS table.

SuggestedRemedy

Bring the text to sync with the 2015 revision, or alternatively omit the base text and specify only insertion point.

In the new paragraphs, change "pause\_quantum bit times" to "pause\_quanta".

Change PICS comments in 31B.4.6 accordingly.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.  
 ACCEPT IN PRINCIPLE.

Align to 802.3-2015:

P197 L14: Change editing instruction to read:

"Insert new fifth and sixth paragraphs to 31B.3.7, between paragraphs beginning "At an operating speed of 1000 Mb/s," and "At operating speeds of 10 Gb/s," as shown:"

Delete P197 L16 through 33, and P197 L42 through P198 L3 (unchanged text from IEEE Std 802.3)

Change inserted text (new paragraphs inserted by IEEE P802.3bz):

P197 L34 through L41 - remove underline

P197 L36 Change "34 pause\_quantum bit times" to "34 pause\_quanta"

P197 L40 Change "41 pause\_quantum bit times" to "41 pause\_quanta"

After inserted sixth paragraph, add new editing instruction:

"Change list following existing 9th (new 11th) paragraph in 31B.3.7 to add 2.5Gb/s and 5Gb/s, before entry for 10 Gb/s (using 10GBASE-T) as shown:"

(text in IEEE P802.3bz D2.1 P198 L4 through L19 is unchanged)

P200 L16 through 40 (31B.4.6 PICS)

Change Value/Comments in TIM2-TIM8 to align with IEEE Std 802.3-2015:

(TIM2) "Delay at MII <= one pause quantum"

(TIM3) "Delay at MII <= one pause quantum + 64 BT"

(TIM4) "Delay at MII <= two pause quanta"

(TIM4a) "Delay at MDI <= 34 pause quanta"

(TIM4b) "Delay at MDI <= 41 pause quanta"

(TIM5) "Delay at MDI <= 60 pause quanta"

(TIM6) "Delay at MDI <= 74 pause quanta"

(TIM7) "Delay at MDI <= 118 pause quanta"

(TIM8) "Delay at MDI <= 394 pause quanta"

CI FM SC FM P 23 L 15 # i-15  
 Anslow, Peter Ciena Corporation

Comment Type E Comment Status D EZ

Page 23 does not reflect the latest version of the 802.3 boilerplate.

SuggestedRemedy

Change "Implementors" to "Implementers".

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 1 SC 1.4 P 24 L 38 # i-16  
 Anslow, Peter Ciena Corporation

Comment Type E Comment Status D EZ

In "See IEEE Std 802.3 Clause", there should be a comma between 802.3 and Clause.

SuggestedRemedy

Change to " See IEEE Std 802.3, Clause" on page 24, lines 38, 41, and 47, page 26, line 5

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 1 SC 1.5 P 26 L 13 # i-18  
 Anslow, Peter Ciena Corporation

Comment Type E Comment Status D EZ

IEEE does not capitalise the expansions of abbreviations unless they are proper nouns.  
 Also, [http://www.ieee802.org/3/WG\\_tools/editorial/requirements/words.html](http://www.ieee802.org/3/WG_tools/editorial/requirements/words.html) has:  
 "signal-to-noise ratio"

SuggestedRemedy

Change "Alien Limited Signal to Noise Ratio" to "alien limited signal-to-noise ratio"

Proposed Response Response Status W

PROPOSED ACCEPT.

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Cl 1 SC 1.4.277b P 26 L 3 # i-17  
 Anslow, Peter Ciena Corporation  
 Comment Type E Comment Status D EZ  
 The definition for MultiGBASE-T (as inserted by IEEE Std 802.3bq-201x) is in 1.4.277a  
 SuggestedRemedy  
 Change the paragraph number to be 1.4.277a  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.

Cl 4 SC 4.4.2 P 27 L 15 # i-19  
 Anslow, Peter Ciena Corporation  
 Comment Type E Comment Status D EZ  
 The "25Gb/s" (as inserted by IEEE Std 802.3by) shown in strikethrough font should have a space between 5 and G  
 SuggestedRemedy  
 Change to "25 Gb/s"  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.

Cl 4 SC 4.4.2 P 27 L 44 # i-82  
 Hajduczenia, Marek Bright House Network  
 Comment Type E Comment Status D EZ  
 Missing serial comma  
 SuggestedRemedy  
 Change "For 2.5 Gb/s, 5 Gb/s, 10 Gb/s and 25 Gb/s operation" to "For 2.5 Gb/s, 5 Gb/s, 10 Gb/s, and 25 Gb/s operation" - use the underline for comma after "10 Gb/s"  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.

Cl 45 SC 45.1 P 35 L 13 # i-20  
 Anslow, Peter Ciena Corporation  
 Comment Type E Comment Status D EZ  
 The IEEE style is to not have "subclause" before an existing numbered subclause.  
 SuggestedRemedy  
 Change the editing instruction to: "Change the third paragraph of 45.1 as follows:"  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.

Cl 45 SC 45.2.1 P 35 L 23 # i-21  
 Anslow, Peter Ciena Corporation  
 Comment Type E Comment Status D EZ  
 In the editing instruction, 1.20 and 1.21 are registers not bits. Also, there is an agreement with the IEEE staff that we should only cite previous amendments where they affect the text being changed and the 802.3by amendment created a reserved row for 1.20 through 1.29

SuggestedRemedy  
 Change the editing instruction to: "Insert rows for 1.20 and 1.21 and change the reserved row for 1.20 through 1.29 in Table 45-3 (as modified by IEEE Std 802.3by-201x) as follows (unchanged rows not shown):  
 In the last row of the table, change the strikethrough text to "20"  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.

Cl 45 SC 45.2.1.1.3 P 36 L # i-23  
 Anslow, Peter Ciena Corporation  
 Comment Type ER Comment Status D EZ  
 As this draft is allocating new rates using bits 1.0.5:2, there needs to be a change in the last paragraph of 45.2.1.1.3 as modified by 802.3by is needed.

SuggestedRemedy  
 Bring 45.2.1.1.3 into the draft and show appropriate changes.  
 Proposed Response Response Status W  
 PROPOSED ACCEPT IN PRINCIPLE.  
 Bring 45.2.1.13 with editing instruction as follows (underline start and end denoted by /U in comment response):  
 45.2.1.1.3 Speed selection (1.0.13, 1.0.6, 1.0.5:2)  
 Change the first sentence of the last paragraph of 45.2.1.1.3 as follows:  
 When bits 5 through 2 are set to 0010 the use of a 40G PMA/PMD is selected; when set to 0011 the use of a 100G PMA/PMD is selected; when set to 0100 the use of a 25G PMA/PMD is selected/U; when set to 0111 the use of a 5G PMA/PMD is selected; when set to 0110 the use of a 2.5G PMA/PMD is selected/U.

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Cl 45 SC 45.2.1.1 P 36 L 11 # i-22  
 Anslow, Peter Ciena Corporation  
 Comment Type E Comment Status D EZ  
 In Table 45-4 802.3by created a reserved row: 0 1 1 x = Reserved  
 SuggestedRemedy  
 Change the row in strikethrough font to "0 1 1 x = Reserved" (i.e. change the initial "x" to "0")  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.

Cl 45 SC 45.2.1.4 P 36 L 21 # i-24  
 Anslow, Peter Ciena Corporation  
 Comment Type ER Comment Status D EZ  
 802.3by has changed Table 45-6  
 SuggestedRemedy  
 Change the editing instruction to: "Change the Reserved row for 1.4.15:12 in Table 45-6 (as modified by IEEE Std 802.3by-201x) and insert rows for 1.4.14, 1.4.13, and 1.4.12 below it as follows (unchanged rows not shown):"  
 In the top row, change the strikethrough ":13" to ":12"  
 Add a new bottom row: "1.4.12", "Reserved for future speeds", "Value always 0", "RO"  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.

Cl 45 SC 45.2.1.4.a P 36 L 42 # i-25  
 Anslow, Peter Ciena Corporation  
 Comment Type ER Comment Status D EZ  
 802.3by has inserted 45.2.1.4.a for bit 1.4.11, so the subclauses for bits 1.4.14 and 1.4.13 should be 45.2.1.4.aa and 45.2.1.4.ab  
 SuggestedRemedy  
 Change the editing instruction to: "Insert 45.2.1.4.aa and 45.2.1.4.ab before 45.2.1.4.a (inserted by IEEE Std 802.3by-201x) as follows:  
 Change the subclause numbers to 45.2.1.4.aa and 45.2.1.4.ab.  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.

Cl 45 SC 45.2.1.7.4 P 37 L 30 # i-26  
 Anslow, Peter Ciena Corporation  
 Comment Type ER Comment Status D EZ  
 In Tables 45-9, 45-10, and 45-12, where two PMDs have a "Description location" in the same subclause, they are in a single row of the table.  
 SuggestedRemedy  
 Change the insertions in Tables 45-9, 45-10, and 45-12 to be a single row for each with the two PMD names separated by a comma for Tables 45-9 and 45-10 and separated by "and" for Table 45-12

Proposed Response Response Status W  
 PROPOSED ACCEPT.

Cl 45 SC 45.2.1.10 P 38 L 15 # i-27  
 Anslow, Peter Ciena Corporation  
 Comment Type ER Comment Status D EZ  
 Bit 1.11.14 is part of the reserved block 1.11.15:13 as modified by 802.3by  
 SuggestedRemedy  
 Change the editing instruction to: "Change the Reserved row for 1.11.15:13 in Table 45-14 (as modified by IEEE Std 802.3by-201x) and insert rows for 1.11.14 and 1.11.13 below it as follows (unchanged rows not shown):"  
 Add a row above the existing row: "1.11.15:13" with :13 in strikethrough font, "Reserved", "Value always zero", "RO"  
 Remove the text in strikethrough font and change the underlined text to normal font in the existing row  
 Add a row below the existing row: "1.11.13", "Reserved", "Value always zero", "RO"

Proposed Response Response Status W  
 PROPOSED ACCEPT.

Cl 45 SC 45.2.1.10.a P 38 L 29 # i-28  
 Anslow, Peter Ciena Corporation  
 Comment Type ER Comment Status D EZ  
 802.3bw inserted 45.2.1.10.a for bit 1.11.11  
 802.3by inserted 45.2.1.10.aa for bit 1.11.12  
 So bit 1.11.14 should be in 45.2.1.10.aaa  
 SuggestedRemedy  
 Change the editing instruction to: "Insert 45.2.1.10.aaa before 45.2.1.10.aa (as inserted by IEEE Std 802.3by-201x) as follows:"  
 Change the new subclause to be 45.2.1.10.aaa  
 Proposed Response Response Status W  
 PROPOSED ACCEPT.

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Cl 45 SC 45.2.1.14g P 38 L 43 # i-29  
 Anslow, Peter Ciena Corporation

Comment Type ER Comment Status D EZ

The subclause for Register 1.21 should be after 45.2.1.14b for Register 1.19 as inserted by 802.3by.  
 There is no need to call out three subclauses as the two level 5 subclauses are part of the level 4 subclause.  
 The 802.3bs amendment will be after 802.3bz

SuggestedRemedy

Change the editing instruction to: "Insert 45.2.1.14c after 45.2.1.14b (as inserted by IEEE Std 802.3by-201x) as follows:"  
 Change the new subclauses to be 45.2.1.14c, 45.2.1.14c.1, and 45.2.1.14c.2  
 Change Table 45-17g to be Table 45-17c

Proposed Response Response Status W  
 PROPOSED ACCEPT.

Cl 45 SC 45.2.3.4.7 P 44 L 19 # i-31  
 Anslow, Peter Ciena Corporation

Comment Type E Comment Status D EZ

The 802.3bz amendment will be approved before 802.3bs.  
 802.3by is adding 45.2.3.4.5 for bit 3.4.4 and this register is unusual in that the level 5 subheadings are in order of increasing bit number. Consequently, bit 3.4.6 should be 45.2.3.4.6

SuggestedRemedy

Change the editing instruction to: "Insert 45.2.3.4.6 and 45.2.3.4.7 after 45.2.3.4.6 (as inserted by IEEE Std 802.3by-201x) as follows:"  
 Renumber the two subclauses accordingly.

Proposed Response Response Status W  
 PROPOSED ACCEPT.

Cl 45 SC 45.2.3.4 P 44 L 3 # i-30  
 Anslow, Peter Ciena Corporation

Comment Type ER Comment Status D EZ

Table 45-122 has been modified by 802.3by.  
 Footnote a is not correct

SuggestedRemedy

Change the editing instruction to: "Change the reserved row for 3.4.15:5 and insert rows for 3.4.7, 3.4.6, and 3.4.5 below it in Table 45-3 (as modified by IEEE Std 802.3by-201x) as follows (unchanged rows not shown):  
 In the first row of the table, change the strikethrough text to "5"  
 add another row at the bottom of the table for:  
 "3.4.5", "Reserved", "Value always 0", "RO"  
 Change footnote a to "RO = Read only"

Proposed Response Response Status W  
 PROPOSED ACCEPT.

Cl 45 SC 45.2.3.6 P 45 L 3 # i-32  
 Anslow, Peter Ciena Corporation

Comment Type E Comment Status D EZ

In the editing instruction and Table 45-123, 3.7.2:0 should be 3.7.3:0

SuggestedRemedy

In the editing instruction and Table 45-123, change 3.7.2:0 to 3.7.3:0

Proposed Response Response Status W  
 PROPOSED ACCEPT.

Cl 45 SC 45.2.3.7 P 45 L 33 # i-83  
 Hajduczenia, Marek Bright House Network

Comment Type E Comment Status D EZ

"aRO = Read only, LH = Latching high" - Table 45-124 does not contain "LH" designator right now

SuggestedRemedy

Remove ", LH = Latching high" from footnote to Table 45-124. No need to show it. Scrub remaining tables in Clause 45 to NOT list designators that are listed in tables.

Proposed Response Response Status W  
 PROPOSED ACCEPT.

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Cl 45 SC 45.2.3.9a.a P 46 L 20 # i-33  
 Anslow, Peter Ciena Corporation

Comment Type ER Comment Status D EZ

It is usual in that the Clause 45 level 5 subheadings are in arranged order of decreasing bit number (as is the case for registers 3.20 and 3.24 in the base standard). This means that the headings for bits 3.21.1 and 3.21.0 should come after 45.2.3.9a.1 as inserted for 3.21.2 by 802.3bq.

SuggestedRemedy

Change the editing instruction to: "Insert 45.2.3.9a.2 and 45.2.3.9a.3 after 45.2.3.9a.1 (as inserted by IEEE Std 802.3bq-201x) as follows:"  
 Renumber the two subclauses to be 45.2.3.9a.2 for 3.21.1 and 45.2.3.9a.3 for 3.21.0.

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 45 SC 45.2.3.9a.a P 46 L 23 # i-84  
 Hajduczenia, Marek Bright House Network

Comment Type T Comment Status D EZ

Avoid undefined bit references: "If the device supports EEE operation for 5GBASE-T as defined in 126.1.3.3, this bit shall be set to one."

SuggestedRemedy

Change "If the device supports EEE operation for 5GBASE-T as defined in 126.1.3.3, this bit shall be set to one." to "If the device supports EEE operation for 5GBASE-T as defined in 126.1.3.3, bit 3.21.1 shall be set to one."  
 Similar change in 45.2.3.9a.b. Scrub the remainder of Clause 45 to make sure that such bit references are always explicit. Update PICS as needed.  
 Similar issues in 45.2.7.14aa.1, 45.2.7.14aa.2

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 45 SC 45.2.3.13.1 P 46 L 38 # i-34  
 Anslow, Peter Ciena Corporation

Comment Type E Comment Status D EZ

There are several changes that have been made by 802.3by to the text in subclauses 45.2.3.13 and 45.2.3.14 that are not shown in the draft.

SuggestedRemedy

Page 46, line 38 change "10GBASE-R" to "10/25GBASE-R"  
 Page 47, line 10 change "10GBASE-R" to "10/25GBASE-R"  
 Page 47, line 25 change "10/40/100GBASE-R" to "10/25/40/100GBASE-R"  
 Page 47, line 36 change "10GBASE-R" to "10/25GBASE-R"

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Implement suggested Remedy AND:

Change editing instruction from

...(as modified by IEEE Std 802.3bq-201x)...

To

...(as modified by IEEE Std 802.3by-201x and IEEE Std 802.3bq-201x)

Cl 45 SC 45.2.3.13.1 P 46 L 38 # i-35  
 Anslow, Peter Ciena Corporation

Comment Type ER Comment Status D EZ

45.2.3.13.1 in 802.3bq contains "in 55.3.6.1 for 10GBASE-T", which is unchanged from the base standard.

In 802.3bz D3.0, this text is shown as "in 55.3.7.1 for 10GBASE-T".

However, 55.3.6.1 is "State diagram conventions" and does not contain a "PCS\_status" variable, while 55.3.7.1 "Status" does.

SuggestedRemedy

change 55.3.7.1 to be underlined and add 55.3.6.1 in strikethrough.

Proposed Response Response Status W

PROPOSED ACCEPT.



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Cl 45 SC 45.2.3.13.4 P 46 L 50 # i-85  
 Hajduczenia, Marek Bright House Network

Comment Type E Comment Status D EZ

"55.3.6.1 for 10GBASE-T, and 113.3.6.2.2 for 25GBASE-T and 40GBASE-T." - missing "in" before "113.3.6.2.2"

SuggestedRemedy

For consistency with other locations in this draft and base standard, change "55.3.6.1 for 10GBASE-T, and 113.3.6.2.2 for 25GBASE-T and 40GBASE-T." to "55.3.6.1 for 10GBASE-T, and >>in<<113.3.6.2.2 for 25GBASE-T and 40GBASE-T." Inserted text marked with >><<

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 45 SC 45.2.7 P 48 L 6 # i-36  
 Anslow, Peter Ciena Corporation

Comment Type E Comment Status D EZ

The register names being modified in Table 45-200 for 7.61 and 7.63 do not match the names in 45.2.7.14 and 45.2.7.14ab

SuggestedRemedy

In Table 45-200, change the two instances of "LP" to "link partner"

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 45 SC 45.2.7.10.4ca P 49 L 29 # i-86  
 Hajduczenia, Marek Bright House Network

Comment Type E Comment Status D EZ

PHY name is broken across lines: "5GBASE-T"

SuggestedRemedy

Please make sure that PHY names are not broken across lines, disabling line break on "-" symbol in PHY names. Alternatively, manually insert forced line break before PHY name in cases where PHY name breaks across lines

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 45 SC 45.2.7.13 P 51 L 48 # i-37  
 Anslow, Peter Ciena Corporation

Comment Type E Comment Status D EZ

When changing the title of Table 45-210, there is no need to show the heading row. See 802.3by Table 45-74 etc.

SuggestedRemedy

Remove the heading row and just show the table title for Table 45-210 and Table 45-211

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 45 SC 45.2.7.14aa P 53 L 2 # i-38  
 Anslow, Peter Ciena Corporation

Comment Type E Comment Status D EZ

In the editing instruction "between 45.2.7.14" should be "after 45.2.7.14"

SuggestedRemedy

Change "between 45.2.7.14" to "after 45.2.7.14"

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 45 SC 45.2.7.14a P 54 L 23 # i-39  
 Anslow, Peter Ciena Corporation

Comment Type E Comment Status D EZ

In the editing instruction "Table 45-211c" should be "Table 45-211a"

SuggestedRemedy

Change "Table 45-211c" to "Table 45-211a"

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.  
 Implement suggested remedy.  
 Also Change "Insert Table 45-211b" to "Insert Tabel 45-211ab" on Page 54 Line 1

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Cl 45 SC 45.2.7.14b.a P 55 L 32 # i-40  
 Anslow, Peter Ciena Corporation

Comment Type E Comment Status D EZ

Editing instruction:  
 "Insert two new subclauses 45.2.7.14b.a and 45.2.7.14b.2 2.5GBASE-T and 5GBASE-T Link Partner THP Bypass Request bits" should be:  
 "Insert 45.2.7.14b.a and 45.2.7.14b.b before 45.2.7.14b.1 (as inserted by IEEE Std 802.3bq-201x) as follows:"

SuggestedRemedy

Change to:  
 "Insert 45.2.7.14b.a and 45.2.7.14b.b before 45.2.7.14b.1 (as inserted by IEEE Std 802.3bq-201x) as follows:"

Proposed Response Response Status W  
 PROPOSED ACCEPT.

Cl 78 SC 78.3 P 63 L 41 # i-41  
 Anslow, Peter Ciena Corporation

Comment Type E Comment Status D EZ

78.3 is not a clause in IEEE terminology.  
 On line 50 126.4.2.5.10 is not a clause.

SuggestedRemedy

delete "clause" on line 41 and on line 50

Proposed Response Response Status W  
 PROPOSED ACCEPT.

Cl 0 SC 0 P 67 L 1 # i-60  
 Zimmerman, George Aquantia, and CommS

Comment Type E Comment Status D EZ

Inconsistent spelling of signaling (42 instances) vs. signalling (8 instances). I think the former is the norm in 802.3.

SuggestedRemedy

Change all "signalling" to "signaling".

Proposed Response Response Status W  
 PROPOSED ACCEPT.

Cl 126 SC 126.1 P 71 L 14 # i-61  
 Zimmerman, George Aquantia, and CommS

Comment Type E Comment Status D EZ

"This clause defines the types 2.5GBASE-T, and 5GBASE-T PCS, PMA sublayers, and Medium Dependent Interfaces (MDI)"

The placement of commas in this sentence seems incorrect.

SuggestedRemedy

Change to  
 "This clause defines type 2.5GBASE-T and 5GBASE-T PCS, PMA sublayers, and Medium Dependent Interfaces (MDI)".

(Aligning with clause 113)

Proposed Response Response Status W  
 PROPOSED ACCEPT.

Cl 126 SC 126.1.3 P 74 L 3 # i-42  
 Anslow, Peter Ciena Corporation

Comment Type E Comment Status D EZ

The IEEE style guide defines a multiplication sign as x, not \*

SuggestedRemedy

In Figure 126-2 change 4 instances of \* to the correct multiply sign (Ctrl-q 0)

Proposed Response Response Status W  
 PROPOSED ACCEPT.

Cl 126 SC 126.3.2.2.3 P 91 L 35 # i-66  
 Zimmerman, George Aquantia, and CommS

Comment Type T Comment Status D EZ

Hexadecimal is a notation for a bit pattern (or binary value). A hexadecimal number does not have an LSB - its binary equivalent does.

SuggestedRemedy

Change "...are shown as hexadecimal values. The LSB of the hexadecimal value represents..."

to  
 "...are shown in hexadecimal notation. The LSB of the equivalent binary value represents..."

Proposed Response Response Status W  
 PROPOSED ACCEPT.

IEEE P802.3bz D3.0 2.5G/5GBASE-T Initial Sponsor ballot comments

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Cl 126 SC 126.3.2.2.4 P 91 L 44 # i-67  
Zimmerman, George Aquantia, and CommS

Comment Type E Comment Status D EZ

"these figures" refer only to figure 126-6.

*SuggestedRemedy*

Change to "this figure".

Proposed Response Response Status W

PROPOSED ACCEPT.

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Cl 126 SC 126.3.2.2.20 P 99 L 49 # i-2  
Rolfe, Benjamin Blind Creek Associate

Comment Type TR Comment Status D EZ

"shall implement" is rather difficult to verify as it requires inspection of the implementation. Elsewhere in the draft the term "shall conform to" is used in similar context, and suggests an expected behavior from the implementation, which is verifiable by observing behavior. "shall conform to" is far better choice of normative language and while boring, consistency does make the standard easier to use.

*SuggestedRemedy*

Change "shall implement" to "shall conform to"

Proposed Response Response Status W

PROPOSED ACCEPT.