

IEEE P802.3bq D3.0 25G/40GBASE-T Ethernet Initial Sponsor ballot comments

Cl 0 SC 0 P 0 L 0 # i-158
 Turner, Michelle
 Comment Type E Comment Status D EZ
 This draft meets all editorial requirements.
 SuggestedRemedy
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 0 SC 0 P 49 L 3 # i-103
 Zimmerman, George Aquantia, and CommS
 Comment Type E Comment Status D EZ
 Table 45-119, entry for register 3.21, EEE control and capability 2 is missing
 SuggestedRemedy
 add entry for register 3.21 to Table 45-119
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 1 SC 1.4 P 24 L 21 # i-161
 Law, David Hewlett Packard Enter
 Comment Type E Comment Status D EZ
 The entries that are being added by IEEE P802.3by draft D3.0 are 1.4.64a through 1.4.64g therefore, assuming that IEEE P802.3by will be approved before IEEE P802.3bq, 25GBASE-T should be 1.4.64h.
 SuggestedRemedy
 Suggest that:
 [1] The text '... into the list after 1.4.64i 25GBASE-R as inserted ...' be changed to read '... into the list after 1.4.64g 25GBASE-SR as inserted ...' assuming IEEE P802.3by comment i-89 <http://ieee802.org/3/by/public/comments/8023by_D30_comment_received_by_clause.pdf#Page=3> is accepted or '... into the list after 1.4.64g 25GBASE-R as inserted ...' if not.
 [2] The text '1.4.64j 25GBASE-T: ...' be changed to read '1.4.64h 25GBASE-T: ...'.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 1 SC 1.4 P 24 L 21 # i-17
 RAN, ADEE Intel Corporation
 Comment Type E Comment Status D EZ
 "25GBASE-R as inserted by IEEE Std 802.3by-201X" is in 1.4.64g. Looking at the project listed as running in parallel (IEEE P802.3bn, IEEE P802.3bs, IEEE P802.3bw, IEEE P802.3by, and IEEE P802.3bz) I could not find any one that inserted later subclauses h and i.
 SuggestedRemedy
 Change subclause identifier to 1.4.64h and update editing instruction accordingly.

Proposed Response Response Status W
 PROPOSED ACCEPT. (implemented by i-161)

Cl 1 SC 1.4 P 24 L 21 # i-162
 Law, David Hewlett Packard Enter
 Comment Type E Comment Status D EZ
 We normally place reference to something having been modified by another amendment in parenthesis, we usually end the editing instructions with the text ' as follows:'.
 SuggestedRemedy
 Suggest the text '... as inserted by IEEE Std 802.3by-201X' be changed to read '... (as inserted by IEEE Std 802.3by-201X) as follows:'.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 1 SC 1.4 P 24 L 25 # i-121
 Donahue, Curtis
 Comment Type E Comment Status D EZ
 Change "25Gb/s" to "25 Gb/s".
 SuggestedRemedy
 See comment.
 Proposed Response Response Status W
 PROPOSED ACCEPT.
 Implemented by i-16

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Cl 1 SC 1.4 P 25 L 1 # i-163
 Law, David Hewlett Packard Enter

Comment Type E Comment Status D EZ

As it now seems likely that IEEE P802.3bq will be approved before IEEE P802.3bn this addition should be updated.

SuggestedRemedy

- [1] The text '... after 1.4.277 mixing segment (and after 1.4.277a inserted by IEEE Std 802.3bn-201x) as ...' be changed to read '... after 1.4.277 mixing segment as ...'.
- [2] The text ' 1.4.277b MultiGBASE-T: ...' be changed to read ' 1.4.277a MultiGBASE-T: ...'.
- [3] The editors box and text on line 8 be deleted.

Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 1 SC 1.4.64j P 24 L 25 # i-16
 RAN, ADEE Intel Corporation

Comment Type E Comment Status D EZ

Missing space.

SuggestedRemedy

Change "25Gb/s" to "25 Gb/s".

Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 1 SC 1.4 P 25 L 4 # i-164
 Law, David Hewlett Packard Enter

Comment Type T Comment Status D EZ

Isn't a 'BASE-T Ethernet PCS/PMA' just a 'BASE-T PHY'?

SuggestedRemedy

Suggest that '... of specific BASE-T Ethernet PCS/PMAs at ...' be changed to read '... of specific BASE-T PHYs at ...'.

Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 105 SC 105.1.3 P 76 L 11 # i-37
 RAN, ADEE Intel Corporation

Comment Type T Comment Status D EZ

25GBASE-T is not only about transmitting.

SuggestedRemedy

Change "for transmitting 25 Gb/s Ethernet over" to "for data communication at 25 Gb/s over".

Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 1 SC 1.4.131a P 24 L 41 # i-18
 RAN, ADEE Intel Corporation

Comment Type E Comment Status D EZ

Superfluous comma between "IEEE Std 802.3" and "Clause 14".

SuggestedRemedy

Remove the comma.

Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 105 SC 105.2 P 77 L 3 # i-175
 Law, David Hewlett Packard Enter

Comment Type E Comment Status D EZ

Typo, 40GBASE-T should read 25GBASE-T.

SuggestedRemedy

Suggest that 'Insert row for 40GBASE-T after 25GBASE-SR ...' should be changed to read 'Insert row for 25GBASE-T after 25GBASE-SR ...'.

Proposed Response Response Status W
 PROPOSED ACCEPT.

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Cl 105 SC 105.3 P 77 L 30 # i-178
 Law, David Hewlett Packard Enter
 Comment Type E Comment Status D EZ
 Typo.
 SuggestedRemedy
 Suggest that text '... of clause 105.3.6 ...' be changed to read '... of subclause 105.3.6 ...'.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 113 SC 113.1 P 79 L 19 # i-39
 RAN, ADEE Intel Corporation
 Comment Type E Comment Status D EZ
 Sentence refers to many things that are defined in this clause, not just two. "Both" seems out of place.
 SuggestedRemedy
 Delete "both".
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 113 SC 113.1 P 79 L 24 # i-28
 Hidaka, Yasuo Fujitsu Laboratories of
 Comment Type E Comment Status D EZ
 Reference to table for associated sublayers and options is given only for 40GBASE-T.
 SuggestedRemedy
 Change the last sentence of second paragraph of clause 113.1 as follows:
 Please refer to Table 105-2 and Table 80-2 for associated sublayers and options for assembling a 25 Gb/s system with the 25GBASE-T PHY and a 40 Gb/s system with the 40GBASE-T PHY, respectively.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 113 SC 113.1 P 79 L 33 # i-40
 RAN, ADEE Intel Corporation
 Comment Type T Comment Status D EZ
 It is not immediately clear that advertising lack of support for fast retrain is done in auto-negotiation. Only looking at 45.2.7.10 reveals that.
 Clause 45 is optional, and the way auto-negotiation is controlled can be different, perhaps with a different register address or without any register.

SuggestedRemedy
 Change "advertising lack of support in register 7.32" to "advertising lack of support during auto-negotiation".
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 113 SC 113.1. P 87 L 26 # i-53
 RAN, ADEE Intel Corporation
 Comment Type E Comment Status D EZ
 "specifically specified" is redundant.
 SuggestedRemedy
 Change to "unless specified"
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 113 SC 113.1.1 P 79 L 48 # i-130
 Thompson, Geoffrey GraCaSI S.A.
 Comment Type ER Comment Status D EZ
 There is a misspelling.
 SuggestedRemedy
 Change "difference" to "differnce".
 Proposed Response Response Status W
 PROPOSED ACCEPT.

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Cl 113 SC 113.1.1 P 79 L 48 # i-124
 Donahue, Curtis
 Comment Type E Comment Status D EZ
 Change "different" to "different".
 SuggestedRemedy
 See comment (remove third "f").
 Proposed Response Response Status W
 PROPOSED ACCEPT. Implemented by comment i-130

Cl 113 SC 113.1.1 P 79 L 50 # i-41
 RAN, ADEE Intel Corporation
 Comment Type E Comment Status D EZ
 4-bit and 32-bit
 SuggestedRemedy
 Change spaces to hyphens
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 113 SC 113.1.3 P 81 L 25 # i-43
 RAN, ADEE Intel Corporation
 Comment Type E Comment Status D EZ
 "two second retrain" is confusing. "Second" is a unit, and according to the style guide should be abbreviated.
 SuggestedRemedy
 Change "two second" to either "two-second" or "2 s".
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Change "two second" to "two-second"

Cl 113 SC 113.1.3 P 83 L 1 # i-44
 RAN, ADEE Intel Corporation
 Comment Type E Comment Status D EZ
 In Figure 113-3, note 2 says items are shown in dashed boxes, but the boxes are not dashed. The box pattern is almost solid hatched lines and is difficult to discern from other lines.
 Dashed boxes do appear in the similar Figure 113-23. This is much more clear.
 These boxes denote either of the optional capabilities, not just EEE.

SuggestedRemedy
 Preferably, make the boxes dashed as in Figure 113-23. If not, label them "hatched boxes" instead.
 In note 2, change "only required for EEE" to "only required for these capabilities".
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE. Do not change note 2. 'these capabilities' is unclear. EEE capabilities are indicated and consistent with existing 802.3 clauses.

Cl 113 SC 113.1.3.1 P 84 L 23 # i-45
 RAN, ADEE Intel Corporation
 Comment Type E Comment Status D EZ
 "192, 8 bit symbols"
 SuggestedRemedy
 Change to "192 8-bit symbols".
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Change to "192 eight-bit symbols" (IEEE style guide says to spell out numbers less than ten).

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Cl 113 SC 113.1.3.1 P 84 L 25 # i-46
 RAN, ADEE Intel Corporation

Comment Type E Comment Status D EZ

The letter "x" is used here to denote multiplication. A slanted multiplication character is used in nearby places. "x" is used again in page 98.

Comment also applies to Figure 113-8, Table 113-7, Table 113-8, and 113.3.6.2.5

SuggestedRemedy

Replace all "x" and slanted multiplication signs to the multiplication character (as in 55.1.3.1).

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 113 SC 113.1.3.2 P 85 L 13 # i-49
 RAN, ADEE Intel Corporation

Comment Type E Comment Status D EZ

"discrete time value" can be confusing.

SuggestedRemedy

change to "discrete-time value"

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 113 SC 113.2.2 P 90 L 1 # i-57
 Hajduczenia, Marek Bright House Network

Comment Type E Comment Status D EZ

Dashed line in Figure 113-4, and other figures in the draft, are very dense.

SuggestedRemedy

Please use less dense dashed line - it is hard to distinguish continuous and dashed lines.

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 113 SC 113.2.2 P 90 L 3 # i-54
 RAN, ADEE Intel Corporation

Comment Type E Comment Status D EZ

In Figure 113-4, the optional signals appear in a hatched box. The exact same hatch pattern appears in other places in the diagram, as an interface boundary.

There is no reference to this box in the note (as in Figure 113-3).

SuggestedRemedy

Change the hatched pattern of this box (only) to a dashed line.

Consider adding indication of this box in the NOTE.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

No note needed, these relate to EEE and the use of dash has already been stated.

Cl 113 SC 113.2.2 P 90 L 42 # i-56
 Hajduczenia, Marek Bright House Network

Comment Type E Comment Status D EZ

Missing space in "RXC<3:0>, RXD<31:0>, TXC<3:0>, and TXD<31:0>," between "," and "and".

Also, sentence finishes with "," and should with "."

SuggestedRemedy

Per comment

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 113 SC 113.3.2.2 P 118 L 11 # i-99
 Zimmerman, George Aquantia, and CommS

Comment Type E Comment Status D EZ

Text only mentions 25GMII, although it also speaks to XLGMII. "rx_coded<64:0> which is then decoded to form the 25GMII signals RXD<31:0> and RXC<3:0> for 25GBASE-T or RXD<63:0> and RXC<7:0> for 40GBASE-T,"

SuggestedRemedy

Change insert "the XLGMII signals" after 25GBASE-T, so it reads: "rx_coded<64:0> which is then decoded to form the 25GMII signals RXD<31:0> and RXC<3:0> for 25GBASE-T or the XLGMII signals RXD<63:0> and RXC<7:0> for 40GBASE-T,"

Proposed Response Response Status W

PROPOSED ACCEPT.

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Cl 113 SC 113.3.2.2 P 98 L 21 # i-125
 Donahue, Curtis
 Comment Type E Comment Status D EZ
 Change " 40GBASE_T" to " 40GBASE-T".
 SuggestedRemedy
 See comment.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 113 SC 113.3.2.2.9 P 106 L 52 # i-68
 RAN, ADEE Intel Corporation
 Comment Type E Comment Status D EZ
 two periods..
 SuggestedRemedy
 Delete one period.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 113 SC 113.3.2.2.9 P 106 L 53 # i-112
 Donahue, Curtis
 Comment Type E Comment Status D EZ
 Extra "." at end of sentence
 SuggestedRemedy
 delete.
 Proposed Response Response Status W
 PROPOSED ACCEPT. Implemented by comment i-68

Cl 113 SC 113.3.2.3 P 118 L 16 # i-75
 RAN, ADEE Intel Corporation
 Comment Type E Comment Status D EZ
 "the receive process inserts idles, delete idles, or delete sequence ordered sets"
 Inconsistent verb form.
 SuggestedRemedy
 Change to
 "the receive process inserts idles, deletes idles, or deletes sequence ordered sets".
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 113 SC 113.3.3 P 120 L 4 # i-76
 RAN, ADEE Intel Corporation
 Comment Type E Comment Status D EZ
 Missing terminating period
 SuggestedRemedy
 Add a period after "113.5.2".
 Proposed Response Response Status W
 PROPOSED ACCEPT.

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Cl 113 SC 113.3.4 P 120 L 18 # i-77
 RAN, ADEE Intel Corporation

Comment Type E Comment Status D EZ

The italics vs. Moman font type in Figure 113-15 is inconsistent both internally and with regards to the text preceding it. As a result the italics distract rather than help.

In the text, n is a variable that appears in italics, but in the figure it sometime is and sometimes isn't. Likewise, Scr is not italicized (not a variable) in the text, but in the figure it sometimes is and sometimes isn't.

The number "1" appears italicized in the figure within "n-1", it looks like the letter l. Numbers should never be italicized.

The word "otherwise" is in italics although it is not a variable.

SuggestedRemedy

Make the variable "n" always italicized in Figure 113-15.

If "Scr" is a variable then make it consistently italicized (and likewise for Sa, Sb, Sc, Sd) in the figure and in the clause text; otherwise make it consistently Roman.

Make everything else Roman.

Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 113 SC 113.3.5.2 P 123 L 44 # i-126
 Donahue, Curtis

Comment Type E Comment Status D EZ

Change "-41dBm" to "-41 dBm".

SuggestedRemedy

See comment (add space).

Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 113 SC 113.4.1 P 137 L 31 # i-105
 Zimmerman, George Aquantia, and CommS

Comment Type E Comment Status D EZ

Missing dot on connection from scr_status to LINK MONITOR in Figure 113-23

SuggestedRemedy

add dot per comment

Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 113 SC 113.4.1 P 137 L 51 # i-59
 Hajduczenia, Marek Bright House Network

Comment Type E Comment Status D EZ

Test in NOTE2 is a fulls sentence, but does not have "." at the end.

SuggestedRemedy

Please scrub existing NOTES and Footnotes, and make sure that full sentences are followed by "."

Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 113 SC 113.4.2.2 P 138 L 40 # i-85
 RAN, ADEE Intel Corporation

Comment Type T Comment Status D EZ

"An EEE-capable PHY shall operate with loop timing when configured as SLAVE"

This statement is redundant in this clause, since loop timing is always performed on the SLAVE side, regardless of EEE support. (In clause 55, SLAVE could work without loop timing, and this sentence seemed to be an exception. But it is not an exception here).

SuggestedRemedy

Delete this sentence.

Proposed Response Response Status W
 PROPOSED ACCEPT.

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Cl 113 SC 113.4.2.3.1 P 140 L 26 # i-113
 Donahue, Curtis
 Comment Type E Comment Status D EZ
 . at the end of the sentence should be ":".
 SuggestedRemedy
 See comment.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 113 SC 113.4.2.4 P 141 L 39 # i-114
 Donahue, Curtis
 Comment Type E Comment Status D EZ
 pairs BI_DA, BI_DB, BI_DC, and BI_DB. Second instance of "BI_DB" should be "BI_DD".
 SuggestedRemedy
 Change second "BI_DB" to "BI_DD".
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 113 SC 113.4.2.5 P 142 L 32 # i-115
 Donahue, Curtis
 Comment Type E Comment Status D EZ
 The InfoField is also denoted IF. While there is nothing wrong with this statement, the only use of "IF" instead of "InfoField" is twice in the following sentence. Is it necessary?
 SuggestedRemedy
 Remove the sentence "The InfoField is also denoted IF." and in the following sentence change "IF" and "IFs" to "InfoField" and "InfoFields" respectively.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 113 SC 113.4.5.1 P 155 L 19 # i-116
 Donahue, Curtis
 Comment Type E Comment Status D EZ
 The definition for THP_next starts with "THP is a variable that contains". Should it be "THP_next"?
 SuggestedRemedy
 Change "THP" to "THP_next". Additionally, the same issue occurs in the THP_tx definition. Change "THP" to "THP_tx" there too.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 113 SC 113.4.5.1 P 155 L 6 # i-106
 Zimmerman, George Aquantia, and Comms
 Comment Type E Comment Status D EZ
 Typo and incorrect reference in pcs_status request primitive - "PMA_SCRSTATUS.request primitive (see 113.2.2.5)" obviously means to refer to PCSSTATUS, not SCRSTATUS, and the cross reference needs to match too.
 SuggestedRemedy
 Replace SCRSTATUS with PCSTATUS and 113.2.2.5 cross reference with 113.2.2.6 cross reference (to match PCSSTATUS).
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 113 SC 113.4.6.2 P 160 L 1 # i-60
 Hajduczenia, Marek Bright House Network
 Comment Type E Comment Status D EZ
 Inconsistencies in font size and text box styles in individual state diagrams, e.g., when comparing Figure 113-31 and Figure 113-32
 SuggestedRemedy
 Please align font sizes and text box styles at least within this amendment.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

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Cl 113 SC 113.5.2.1 P 168 L 21 # i-91
 RAN, ADEE Intel Corporation

Comment Type GR Comment Status D EZ

Figure title includes "need to update". What does it mean?

SuggestedRemedy

Update what's needed, and delete this part of the title.

Proposed Response Response Status W

PROPOSED ACCEPT.
 Delete "(need to update)" update was completed long ago.

Cl 113 SC 113.5.2.1 P 168 L 21 # i-117
 Donahue, Curtis

Comment Type E Comment Status D EZ

The title for Figure 113-38 is "Transmitter test fixture 3 for transmitter jitter measurement (need to update)". I'm assuming "(need to update)" was some kind of note for the editor and shouldn't be in the figure title.

SuggestedRemedy

Remove the "(need to update)". And additionally update the figure appropriately if necessary.

Proposed Response Response Status W

PROPOSED ACCEPT.
 Implemented as comment i-91

Cl 113 SC 113.5.3.4 P 170 L 16 # i-61
 Hajduczenia, Marek Bright House Network

Comment Type E Comment Status D EZ

Is there any reason for the Y axis title be displayed in this form?

SuggestedRemedy

Typically, Y axis title is displayed in 90deg rotation, for example see Figure 85-4--Maximum insertion loss TP0 to TP2 or TP3 to TP5 in IEEE Std 802.3-2012 version

Proposed Response Response Status W

PROPOSED ACCEPT. Implemented as i-107

Cl 113 SC 113.5.3.4 P 170 L 16 # i-107
 Zimmerman, George Aquantia, and Comms

Comment Type E Comment Status D EZ

Figure 113-39 vertical axis label is stacked, vs. rotated as most other similar 802.3 plots are.

SuggestedRemedy

Change vertical axis label to rotated text

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 113 SC 113.5.3.4 P 170 L 18 # i-92
 RAN, ADEE Intel Corporation

Comment Type E Comment Status D EZ

The y axis label is written vertically with horizontal letters, and the plot seems to be hand-drawn. Compare to figure 55-37.

SuggestedRemedy

Redraw figure as vector plot with thinner lines, set y-axis title correctly.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.
 Plot is embedded Excel. Y axis fixed by comment i-107

Cl 113 SC 113.5.4.3 P 171 L 32 # i-118
 Donahue, Curtis

Comment Type E Comment Status D EZ

Change "6dBm" to "6 dBm".

SuggestedRemedy

See comment (add space).

Proposed Response Response Status W

PROPOSED ACCEPT.

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Cl 113 SC 113.7.2 P 178 L 47 # i-62
 Hajduczenia, Marek Bright House Network

Comment Type E Comment Status D EZ

Incorrect table format for Table 113-21

SuggestedRemedy

Please apply proper style (and fix offending line thickness)
 The same observation applies to Table 113-22.

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 113 SC 113.7.2.3 P 179 L 44 # i-63
 Hajduczenia, Marek Bright House Network

Comment Type T Comment Status D EZ

misplaced Editorial note.

SuggestedRemedy

Either fix reference from Equation 113-27 to Equation 113-14 (where the note is located) or
 move the note to location under said Equation 113-27.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.
 Note deleted by comment i-100

Cl 113 SC 113.7.2.3 P 179 L 44 # i-96
 RAN, ADEE Intel Corporation

Comment Type G Comment Status D EZ

Editor's note refers to an equation number different from the equation that precedes it.
 Also, it state that resolution is expected in September 2015; is there a resolution?

SuggestedRemedy

Either correct the number or move the note near the equation. Update the expected date if
 the comment is still relevant.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.
 Note delete by comment i-100

Cl 113 SC 113.7.2.3 P 179 L 45 # i-100
 Zimmerman, George Aquantia, and CommS

Comment Type E Comment Status D EZ

Editor's note on ISO Return Loss is no longer relevant

SuggestedRemedy

Delete editor's note

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 113 SC 113.8.2.2 P 194 L # i-120
 Donahue, Curtis

Comment Type E Comment Status D EZ

Change "Test- Mode 5" to "Test mode 5" to be consistant with other instances of "test
 mode" throughout the draft.

SuggestedRemedy

See comment.

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 113A SC 113A.2 P 216 L 1 # i-64
 Hajduczenia, Marek Bright House Network

Comment Type E Comment Status D EZ

inconsistent font size in Table 113A-1

SuggestedRemedy

Please apply proper style template and decrease font size for individual entry rows.

Proposed Response Response Status W

PROPOSED ACCEPT.

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Cl 28 SC 28.3.1 P 27 L 8 # i-1
 Anslow, Peter Ciena Corporation
 Comment Type E Comment Status D EZ
 In the editing instruction "the first list" should be "in the first list", subclause numbers are not preceded by "subclause", and the location should be specified.
 SuggestedRemedy
 Change the editing instruction to: "Insert rows for 25Gig T and 40GigT in the first list in 28.3.1 below the row for 10GigT as follows:
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 30 SC 30.3.2.1.2 P 29 L 43 # i-2
 Anslow, Peter Ciena Corporation
 Comment Type E Comment Status D EZ
 IEEE Std 802.3bw has been approved by the SASB, so this should be "IEEE Std 802.3bw-2015"
 SuggestedRemedy
 Change all instances of "IEEE Std 802.3bw-201x" to "IEEE Std 802.3bw-2015" throughout the draft
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 28D SC 28D.8 P 211 L 29 # i-127
 Donahue, Curtis
 Comment Type E Comment Status D EZ
 Change " 25GBASE_T" to " 25GBASE-T".
 SuggestedRemedy
 See comment.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 30 SC 30.3.2.1.3 P 30 L 3 # i-166
 Law, David Hewlett Packard Enter
 Comment Type E Comment Status D EZ
 Text needs updated based on the approval of IEEE Std 802.3bw last year and the likelihood that IEEE P802.3bq will be the third amendment to IEEE Std 802.3-2015.
 SuggestedRemedy
 Suggest that:
 [1] The text '... (as modified by IEEE Std 802.3bw-201X, IEEE Std 802.3by-201X and TBD) ...' be changed to read '... (as modified by IEEE Std 802.3bw-201X and IEEE Std 802.3by-201X) ...'.
 [2] The Editors note in the box on line 7 be deleted.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 30 SC 30.3.2.1.2 P 29 L 41 # i-165
 Law, David Hewlett Packard Enter
 Comment Type E Comment Status D EZ
 Text needs updated based on the approval of IEEE Std 802.3bw last year and the likelihood that IEEE P802.3bq will be the third amendment to IEEE Std 802.3-2015.
 SuggestedRemedy
 Suggest that:
 [1] The text '... (as modified by IEEE Std 802.3bw-201X, IEEE Std 802.3by-201X and TBD) ...' be changed to read '... (as modified by IEEE Std 802.3bw-201X and IEEE Std 802.3by-201X) ...'.
 [2] The Editors note in the box on line 47 be deleted.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 30 SC 30.5.1.1.2 P 30 L 22 # i-167
 Law, David Hewlett Packard Enter
 Comment Type E Comment Status D EZ
 Text needs updated based on the approval of IEEE Std 802.3bw last year and the likelihood that IEEE P802.3bq will be the third amendment to IEEE Std 802.3-2015.
 SuggestedRemedy
 Suggest that:
 [1] The text '... (as modified by IEEE Std 802.3bw-201X, IEEE Std 802.3by-201X and TBD) ...' be changed to read '... (as modified by IEEE Std 802.3bw-201X and IEEE Std 802.3by-201X) ...'.
 [2] The Editors note in the box on line 28 be deleted.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

IEEE P802.3bq D3.0 25G/40GBASE-T Ethernet Initial Sponsor ballot comments

Cl 30 SC 30.6.1.1.5 P 33 L 9 # i-171
 Law, David Hewlett Packard Enter

Comment Type E Comment Status D EZ

Text needs updated based on the approval of IEEE Std 802.3bw last year and the likelihood that IEEE P802.3bq will be the third amendment to IEEE Std 802.3-2015.

SuggestedRemedy

Suggest that:

[1] The text '... (as modified by IEEE Std 802.3bw-201X, IEEE Std 802.3by-201X and TBD) ...' be changed to read '... (as modified by IEEE Std 802.3bw-201X and IEEE Std 802.3by-201X) ...'.

[2] The Editors note in the box on line 13 be deleted.

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 45 SC 45.2.1.62 P 38 L 31 # i-23
 RAN, ADEE Intel Corporation

Comment Type E Comment Status D EZ

The letter "G" seems smaller than others in "MultiGBASE-T". This occurs multiple times from this point and forth.

SuggestedRemedy

Correct font sizes.

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 45 SC 45.2.1.62.1 P 38 L 37 # i-101
 Zimmerman, George Aquantia, and CommS

Comment Type E Comment Status D EZ

Reference to 10GBASE-T clause 55 has dropped out of the text without even change marks

SuggestedRemedy

Change "When read as a one, bit 1.129.0 indicates that the startup protocol defined in 113.4.2.5 has been completed" to: "When read as a one, bit 1.129.0 indicates that the startup protocol defined in 55.4.2.5 (for 10GBASE-T) or 113.4.2.5 (for 25G/45GBASE-T) has been completed," and show appropriate underlining for "(for 10GBASE-T) or 113.4.2.5 (for 25G/45GBASE-T)".

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 45 SC 45.2.1.64.2 P 39 L 40 # i-24
 RAN, ADEE Intel Corporation

Comment Type TR Comment Status D EZ

"Normal mode" is defined in clause 55 as the mode of operation that enables data transfer, as opposed to training mode. This is not the opposite of "short reach mode". Therefore, setting bit 1.131.0 to zero does not necessarily make the PHY operate in normal mode; it only disables short reach mode.

SuggestedRemedy

Change "If bit 1.131.0 is a zero the PHY is operating in normal mode" to "If bit 1.131.0 is a zero, the PHY is not in short reach mode".

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 45 SC 45.2.1.65.1 P 40 L 1 # i-5
 Anslow, Peter Ciena Corporation

Comment Type E Comment Status D EZ

In "Change text of clauses 45.2.1.65.1 and 45.2.1.65.2 ...", 45.2.1.65.1 and 45.2.1.65.2 are not clauses.

SuggestedRemedy

Delete the word "clauses"

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 45 SC 45.2.1.78 P 41 L 51 # i-26
 RAN, ADEE Intel Corporation

Comment Type E Comment Status D EZ

Missing space between value and units.

Missing period at the end of this paragraph.

SuggestedRemedy

Change "1.25ns" to "1.25 ns".
 Change "2.5ns" to "2.5 ns".

Add period after the last word.

Proposed Response Response Status W

PROPOSED ACCEPT.

IEEE P802.3bq D3.0 25G/40GBASE-T Ethernet Initial Sponsor ballot comments

Cl 45 SC 45.2.1.79.1 P 42 L 20 # i-172
 Law, David Hewlett Packard Enter
 Comment Type E Comment Status D EZ
 The fr_rx_counter is defined in subclause 55.4.5.4 'Counters' of IEEE Std 802.3-2015.
 SuggestedRemedy
 Suggest that the text '... fr_rx_counter as defined in 55.4.5.1 for 10GBASE-T ...' should be changed to read '... fr_rx_counter as defined in 55.4.5.4 for 10GBASE-T ...'.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 45 SC 45.2.7 P 49 L 49 # i-102
 Zimmerman, George Aquantia, and CommS
 Comment Type E Comment Status D EZ
 Table 45-200, reserved row needs to be adjusted
 SuggestedRemedy
 add "and adjust the reserved row" to the editing instruction.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 45 SC 45.2.3 P 42 L 44 # i-7
 Anslow, Peter Ciena Corporation
 Comment Type E Comment Status D EZ
 Subclause 45.2.3.9a has been added for EEE control and capability 2 (Register 3.21), but there is no change to Table 45-119 for this new register
 SuggestedRemedy
 Add a row for register 3.21 and show appropriate changes to the reserved registers.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 45 SC 45.2.3.9 P 45 L 1 # i-6
 Anslow, Peter Ciena Corporation
 Comment Type E Comment Status D EZ
 "Change the name of Table 45-125 ..." should be "Change the title of Table 45-125 ..." and "(unchanged bits not shown)" should be "(unchanged rows not shown)".
 SuggestedRemedy
 Change "the name of Table 45-125 ..." to "the title of Table 45-125 ..." and change "(unchanged bits not shown)" to "(unchanged rows not shown)".
 Proposed Response Response Status W
 PROPOSED ACCEPT.

IEEE P802.3bq D3.0 25G/40GBASE-T Ethernet Initial Sponsor ballot comments

Cl 45 SC 45.2.7.13 P 54 L 9 # i-33
 RAN, ADEE Intel Corporation

Comment Type T Comment Status D EZ

The non-underlined text does not match the original content of 45.2.7.13 (as of IEEE Draft P802.3/D3.2). The original text includes "or sent as part of the 10GBASE-T and 1000BASE-T technology message code as defined in 28C.11".

In addition, the new text inserted makes the text quite confusing. The first sentence says what this register defines and how it paps to auto-negotiation "Next Page" messages. The third sentence again refers to "Next Page" messages. But it seems as if neither 25GBASE-T nor 40GBASE-T use next pages; the second sentence refers to 25GBASE-T and 40GBASE-T advertising being done during training.

It is also unclear whether the new bits are exchanged only during training; if a device supports 10GBASE-T or lower speeds with clause 28 AN, aren't the new bits included in the U10 to U0 bits as defined in 28C.12?

I am not sure I know the answer to the above so the proposed remedy may need some corrections.

SuggestedRemedy

From the original content of P802.3-2015 as the baseline, change to the following text:

This register defines EEE advertisement for several device types. Devices that use Clause 28 auto-negotiation send EEE advertisement in the Unformatted Next Page following a EEE technology message code as defined in 28C.12 or as part of the 10GBASE-T and 1000BASE-T technology message code as defined in 28C.11. Devices that use Clause 73 auto-negotiation send EEE advertisement in the unformatted code field of Message Next Page with EEE technology message code as defined in 73A.4. 25GBASE-T and 40GBASE-T EEE advertisement is exchanged in the InfoField during training as defined in 113.4.2.5.10.

The assignment of bits in the EEE advertisement register and the correspondence with the bits in the Next Page messages or in the training InfoField are shown in Table 45-210.

Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 45 SC 45.2.7.14a P 55 L 47 # i-122
 Donahue, Curtis

Comment Type E Comment Status D EZ

"RW" is used in Table 45-211a.

SuggestedRemedy

In the second and third row of the table change "RW" to "R/W", and change the footnote at the bottom of the table to "R/W = Read/Write, RO = Read only"

Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 45 SC 45.5.3.9 P 59 L 42 # i-8
 Anslow, Peter Ciena Corporation

Comment Type E Comment Status D EZ

"add" is not a valid editing instruction

SuggestedRemedy

Change "and add rows" to "and insert rows"

Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 80 SC 80.1.3 P 69 L 36 # i-35
 RAN, ADEE Intel Corporation

Comment Type E Comment Status D EZ

Text box in the figure uses serif font type.

SuggestedRemedy

Change font to sans serif type.

Proposed Response Response Status W
 PROPOSED ACCEPT.

IEEE P802.3bq D3.0 25G/40GBASE-T Ethernet Initial Sponsor ballot comments

Cl **80** SC **80.1.4** P **69** L **50** # **i-36**
 RAN, ADEE Intel Corporation

Comment Type **T** Comment Status **D** EZ

"transmitting 40GBASE-T" used as part of the definition of 40GBASE-T is inadequate. Also, it isn't just transmitting that is required.

SuggestedRemedy

Change "for transmitting 40GBASE-T over" to "for data communication at 40 Gb/s over".

Proposed Response Response Status **W**

PROPOSED ACCEPT.

Cl **80** SC **80.1.4** P **70** L **4** # **i-123**
 Donahue, Curtis

Comment Type **E** Comment Status **D** EZ

Change "40Gb/s and 100 Gb/s PHYs" to "40 Gb/s and 100 Gb/s PHYs".

SuggestedRemedy

See Comment (add space in "40Gb/s").

Proposed Response Response Status **W**

PROPOSED ACCEPT.

Cl **FM** SC **FM** P **1** L **1** # **i-159**
 Law, David Hewlett Packard Enter

Comment Type **E** Comment Status **D** EZ

Based on IEEE P802.3by entering sponsor ballot in November 2015, IEEE P802.3bq and IEEE P802.3bp entering sponsor ballot in December 2015, the published timeline for IEEE P802.3bq showing approval in June 2016, and the published timeline for IEEE P802.3bp showing approval in August 2016, it seems likely that that IEEE P802.3by will be the second amendment and IEEE P802.3bq will be the third amendment to IEEE Std 802.3-2015 after IEEE Std 802.3bw(TM)-2015 and IEEE Std 802.3by(TM)-201X.

SuggestedRemedy

Please change '(Amendment of IEEE Std 802.3(TM)-2015)' to read 'Amendment of IEEE Std 802.3(TM)-2015 as amended by IEEE Std 802.3bw(TM)-2015 and IEEE Std 802.3by(TM)-201X'

Proposed Response Response Status **W**

PROPOSED ACCEPT.

Cl **FM** SC **FM** P **11** L **18** # **i-160**
 Law, David Hewlett Packard Enter

Comment Type **E** Comment Status **D** EZ

Text needs updated based on the approval of IEEE Std 802.3bw-2015, the likelihood that IEEE P802.3by will be the second amendment and IEEE P802.3bq will be the third amendment to IEEE Std 802.3-2015, and the use of the (TM) symbol only on the first instance.

SuggestedRemedy

Suggest that:

[1] The following text should be inserted prior to the existing text 'IEEE Std 802.3bq(TM)-201x':

IEEE Std 802.3bw-2015

Amendment 1--This amendment includes changes to IEEE Std 802.3-2015 and adds Clause 96. This amendment adds 100 Mb/s Physical Layer (PHY) specifications and management parameters for operation on a single balanced twisted-pair copper cable.

IEEE Std 802.3by-201x

Amendment 2--This amendment includes changes to IEEE Std 802.3-2015 and adds Clause 105 through Clause 112, Annex 109A, Annex 109B, Annex 110A, Annex 110B, and Annex 110C. This amendment adds MAC parameters, Physical Layers, and management parameters for the transfer of IEEE 802.3 format frames at 25 Gb/s.

[2] The text 'IEEE Std 802.3bq(TM)-201x' should be changed to read 'IEEE Std 802.3bq-201x'.

[3] The text 'This amendment includes changes to IEEE Std 802.3-2015 and adds Clause 113 ...' be changed to read 'Amendment 3--This amendment includes changes to IEEE Std 802.3-2015 and adds Clause 113 ...'.

Proposed Response Response Status **W**

PROPOSED ACCEPT.