

IEEE P802.3cd 50 Gb/s, 100 Gb/s, 200 Gb/s Ethernet Initial Sponsor ballot comments

CI 000 SC 000 P L # i-2
Marris, Arthur Cadence Design Syst

Comment Type ER Comment Status D <bucket>

Update the editing instructions throughout the document to reference the new revision to the base standard, due to be published in 2018. Also do this on future drafts of 802.3cd to take into account future changes to the revision project draft standard.

SuggestedRemedy

Update editing instructions in draft 3.0 and future drafts to align with the new base standard.

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 000 SC 000 P L # i-20
Anslow, Peter Ciena Corporation

Comment Type E Comment Status D <bucket>

Tables that split across two pages need the bottom ruling on the first page set to "very thin" and the table continuation variable applied to the heading.

SuggestedRemedy

Make the bottom ruling change to all such tables in the draft, including Tables 134-2, 135-2, 135-4, 136-5, 136-6 (2 places), 136-11, 136-15, 137-5, 138-9, 139-6, 140-6, 93A-2, 136C-3, the tables in 134.7.4.1, 134.7.4.2, 136.14.3, 136.14.4.3, 136.14.4.5, 137.12.3, 137.12.4.1, 137.12.4.3, 138.11.4.1, 139.11.4.1, 140.11.4.1, 135E.5.4.1, 135F.6.4.1

Add the table continuation variable to the heading of Table 93A-2.

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 000 SC 000 P L # i-37
RAN, ADEE Intel Corporation

Comment Type E Comment Status D <bucket>

The convention in most of 802.3 text is that the acronym FEC is preceded by the article "an" rather than "a".

See comment i-19 in

http://www.ieee802.org/3/by/public/comments/8023by_D30_comment_final_responses_by_ID_v2.pdf.

SuggestedRemedy

Change "a FEC" to "an FEC" in the following:

133.5.3
134.5.4.2.3
136.9.4.1

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 000 SC 000 P L # i-14
Anslow, Peter Ciena Corporation

Comment Type E Comment Status D <bucket>

Some external cross-references are shown in black text, but should have character tag "External" applied to them.

SuggestedRemedy

Apply character tag "External" to:

"Equation (93A-19)" page 231, line 12

"83A", "83B", "83D", "83E", page 309, lines 25 to 30

Proposed Response Response Status W

PROPOSED ACCEPT.

IEEE P802.3cd 50 Gb/s, 100 Gb/s, 200 Gb/s Ethernet Initial Sponsor ballot comments

CI 000 SC 000 P L # i-9
 Anslow, Peter Ciena Corporation

Comment Type E Comment Status D <bucket>

Some cross-references in the draft are in forest green although the target is in the draft.

SuggestedRemedy

- Change references to Clause 73 to be cross-references in the following places:
 Page 90, line 32 (73.5.1)
- Change references to Clause 82 to be cross-references in the following places:
 Page 266, line 3 (80.5), line 4 (Figure 80-8), and line 18 (80.5)
- Change references to Clause 82 to be cross-references in the following places:
 Page 262, line 8
- Change references to Clause 91 to be cross-references in the following places:
 Page 87, line 48
 Page 104, line 36 (91.5.3.1)
 Page 105, line 40 (91.5.3.1)
 Page 232, line 19 (91.6)
- Change references to Clause 120 to be cross-references in the following places:
 Page 40, line 36
 Page 85, line 41
 Page 87, line 8
 Page 95, line 54
 Page 96, lines 5, 7, and 8
 Page 119, lines 8 and 31
 Page 198, line 38
 Page 246, line 38
 Page 262, line 41
- Change references to Clause 119 to be cross-references in the following places:
 Page 85, line 40
 Page 87, lines 8 and 49
 Page 199, line 9
 Page 245, line 54
 Page 262, line 39

Proposed Response Response Status W
 PROPOSED ACCEPT.

CI 000 SC 000 P L # i-86
 RAN, ADEE Intel Corporation

Comment Type E Comment Status D <bucket>

The style manual (Presentation of data and table format, 13.3.2) says: "All numbers should be aligned at the decimal point". This is not always followed (e.g. table 131-4).

It also says "Digits should be separated into groups of three [with space separating], counting from the decimal point toward the left and right". In this draft this is sometimes followed (e.g. table 131-4) and sometimes not (Table 80-5).

The style manual does not require numbers outside of tables to be three-digit-grouped, either left or right of the decimal point. In this draft this is usually done for large integers (left of the decimal point), but not done for fractions (right of the decimal point). The readability of numbers outside of tables is not improved by this grouping.

We should consistently follow the stated table convention, and choose a convention for non-table data.

SuggestedRemedy

Go over all tables and format according to 13.3.2 in the style manual.

Go over numbers in the text and remove the three-digit grouping.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

The number formatting in all legacy (amended) clauses and annexes is purposely consistent with the formatting in the base standard. Concerns with this formatting should be addressed against the base standard.

For all new clauses and annexes, modify the numbers in the tables and text per the suggested remedy, as appropriate.

CI 000 SC 000 P 95 L 1 # i-113
 Maytum, Michael RETIRED/unemployed

Comment Type E Comment Status D <bucket>

Energy-Efficient

SuggestedRemedy

make Energy Efficient to match other 11 occurrences

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Replace all instance of "Energy Efficient Ethernet" with "Energy-Efficient Ethernet".

See comments i-111 and i-112.

IEEE P802.3cd 50 Gb/s, 100 Gb/s, 200 Gb/s Ethernet Initial Sponsor ballot comments

Cl 000 SC 000 P 97 L 13 # i-109
 Maytum, Michael RETIRED/unemployed
 Comment Type E Comment Status D <bucket>
 64-bit wide
 SuggestedRemedy
 make 64-bit-wide to match other occurrences
 Proposed Response Response Status W
 PROPOSED REJECT.
 The occurrence of "64-bit wide" in Clause 80 is in unchanged text from Clause 80. Any changes to this text are out of scope for this project and must be addressed against the base standard through the revision project or maintenance process.
 All other occurrences are in new clauses and are consistently written as "64-bit-wide".

Cl 000 SC 000 P 183 L 5 # i-110
 Maytum, Michael RETIRED/unemployed
 Comment Type E Comment Status D <bucket>
 bit-times
 SuggestedRemedy
 make bit times to match other 24 occurrences
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 On page 183 line 5, change "bit-times" to "bit times".

Cl 000 SC 000 P 199 L 16 # i-111
 Maytum, Michael RETIRED/unemployed
 Comment Type E Comment Status D <bucket>
 Energy-Efficient
 SuggestedRemedy
 make Energy Efficient to match other 11 occurrences
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Replace all instances of "Energy Efficient Ethernet" with "Energy-Efficient Ethernet".
 See comments i-112 and i-113.

Cl 000 SC 000 P 247 L 1 # i-112
 Maytum, Michael RETIRED/unemployed
 Comment Type E Comment Status D <bucket>
 Energy-Efficient
 SuggestedRemedy
 make Energy Efficient to match other 11 occurrences
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Replace all instances of "Energy Efficient Ethernet" with "Energy-Efficient Ethernet".
 See comments i-111 and i-113.

Cl 001 SC 1.4 P 39 L 3 # i-104
 Healey, Adam Broadcom Ltd.
 Comment Type E Comment Status D <bucket>
 The definition sort order used by IEEE 802.3 is defined at <http://www.ieee802.org/3/WG_tools/editorial/requirements/words.html> (search for "Definition sort order"). Based on this order, the specified insertion point for the definition of 100GBASE-CR2 is not correct. Also, IEEE P802.3cd will end up being an amendment to IEEE Std 802.3-201x (currently IEEE P802.3 (IEEE 802.3cj) D3.0 which is in Sponsor ballot). "100GBASE-R encoding" is not 1.4.52 in the expected base document.
 SuggestedRemedy
 Apply the correct definition sort order relative the locations of definitions in the expected base document.
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 To align with the 802.3-201x revision, apply the correct definition sort order according to <http://www.ieee802.org/3/WG_tools/editorial/requirements/words.html> relative the locations of definitions in the 802.3-201x base document.

Cl 030 SC 30.3.2.1.2 P 42 L 11 # i-65
 Marris, Arthur Cadence Design Syst
 Comment Type E Comment Status D <bucket>
 Editorial instruction should say the insertion is after 40GBASE-T rather than 40GBASE-R
 SuggestedRemedy
 Change 40GBASE-R to 40GBASE-T on lines 12 and 21 on page 42
 Proposed Response Response Status W
 PROPOSED ACCEPT.

IEEE P802.3cd 50 Gb/s, 100 Gb/s, 200 Gb/s Ethernet Initial Sponsor ballot comments

Cl **030** SC **30.3.2.1.5** P **42** L **39** # **i-66**
 Marris, Arthur Cadence Design Syst
 Comment Type **E** Comment Status **D** <bucket>
 The reference should be to Table 81-4 rather than 81-3
 SuggestedRemedy
 Change 81-3 to 81-4
 Proposed Response Response Status **W**
 PROPOSED ACCEPT.

Cl **030** SC **30.5.1.1.2** P **42** L **51** # **i-67**
 Marris, Arthur Cadence Design Syst
 Comment Type **E** Comment Status **D** <bucket>
 The 50G entries should go after 40GBASE-T rather than 40GBASE-FR
 SuggestedRemedy
 Change 40GBASE-FR to 40GBASE-T
 Proposed Response Response Status **W**
 PROPOSED ACCEPT.

Cl **030** SC **30.6.1.1.5** P **46** L **21** # **i-68**
 Marris, Arthur Cadence Design Syst
 Comment Type **E** Comment Status **D** <bucket>
 The 50GR entry goes after 40GBASE-T rather than 40GBASE-CR4
 SuggestedRemedy
 Change 40GBASE-CR4 to 40GBASE-T
 Proposed Response Response Status **W**
 PROPOSED ACCEPT.

Cl **031B** SC **31B.4.6** P **330** L **23** # **i-19**
 Anslow, Peter Ciena Corporation
 Comment Type **E** Comment Status **D** <bucket>
 Comment #15 against D2.0 of the 802.3 revision project changed the format of the table in 31B.4.6. See:
<http://www.ieee802.org/3/cj/comments/P8023-D2p0-Comments-Final-byID.pdf#page=3>
 When the P802.3cd draft is changed to become an amendment to the output of the revision, equivalent changes need to be made to the P802.3cd draft.
 SuggestedRemedy
 When the P802.3cd draft is changed to become an amendment to the output of the revision:
 in the Value/Comment cell, apply footnote a to "117 pause_quanta"
 in the Support cell, change "N/A [] M: Yes []" to "Yes [] N/A []"
 Proposed Response Response Status **W**
 PROPOSED ACCEPT.

Cl **045** SC **45.2.1.6** P **50** L **31** # **i-1**
 Marris, Arthur Cadence Design Syst
 Comment Type **ER** Comment Status **D** <bucket>
 The editorial instruction should be simplified to just show the changes to the relevant reserved bit descriptions in the new revision
 SuggestedRemedy
 Simplify Table 45-7 to just show changes to the relevant reserved fields for bits 1.7.6:0
 Proposed Response Response Status **W**
 PROPOSED ACCEPT.

Cl **045** SC **45.2.1.116d** P **60** L **35** # **i-11**
 Anslow, Peter Ciena Corporation
 Comment Type **E** Comment Status **D** <bucket>
 Tables that split across two pages need the bottom ruling on the first page set to "very thin" and the table continuation variable applied to the heading.
 SuggestedRemedy
 Make these two changes to tables 45-90ab, 45-90c, 45-90d, 45-90e
 Proposed Response Response Status **W**
 PROPOSED ACCEPT.

IEEE P802.3cd 50 Gb/s, 100 Gb/s, 200 Gb/s Ethernet Initial Sponsor ballot comments

CI 045 SC 45.2.1.116d.2 P 61 L 49 # i-23
 Anslow, Peter Ciena Corporation

Comment Type E Comment Status D <bucket>

Generally, text in Clause 45 uses "one" or "zero" when describing the value a bit is set to rather than "1" or "0". However, there are some inconsistencies.
 There are 188 instances of "to one" and 27 instances of "to 1".
 There are 175 instances of "to zero" and 5 instances of "to 0".
 A comment has been submitted against the revision project D3.0 to change these instances of "1" and "0" to "one" and "zero"

SuggestedRemedy

Change "to 1" to "to one" on:
 Page 61, line 49
 Page 62, line 5
 Page 64, lines 18 and 26

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 069 SC 69.2.3 P 85 L 49 # i-7
 Anslow, Peter Ciena Corporation

Comment Type E Comment Status D <bucket>

Comment r01-11 against D3.1 of P802.3cb has changed the table inserted by P802.3cb from Table 69-2a to Table 69-1aa. See:
http://www.ieee802.org/3/cb/comments/IEEE_P802d3cb_D3p1_Cmt_Resolution_by_ID--20171106_1445.ldb.pdf#page=3
 This change has to be accounted for in the P802.3cb draft.

SuggestedRemedy

Change the base text (before changes) to: "Table 69-1, Table 69-1aa, Table 69-1a, and Table 69-2 specify the correlation..."
 Change the inserted tables to be Table69-2a, Table69-2b, and Table69-2c
 Change the editing instruction on page 86, line 10 to: "Insert Table69-2a, Table69-2b, and Table69-2c after Table69-2 as follows:

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

[Editor's note. Updated since first posting.]

Align the changes with the 802.3-201x revision as modified by IEEE Std 802.3cb-201x.

CI 073 SC 73.6.4 P 90 L 1 # i-3
 Marris, Arthur Cadence Design Syst

Comment Type TR Comment Status D <bucket>

Maintenance request 1283 has been implemented by the P802.3cj revision project to the base standard so there is no need for it in 802.3cd

SuggestedRemedy

Remove the text in 802.3cd concerning maintenance request 1283

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 073 SC 73.11.4.7 P 94 L 26 # i-8
 Anslow, Peter Ciena Corporation

Comment Type E Comment Status D <bucket>

The editing instruction could be improved

SuggestedRemedy

Change "Change Table" to "Change PICS item SD15"

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 078 SC 78.5 P 96 L 20 # i-69
 Marris, Arthur Cadence Design Syst

Comment Type E Comment Status D <bucket>

The insertion should be below the row for 40GBASE-T

SuggestedRemedy

Change 40GBASE-KR to 40GBASE-T

Proposed Response Response Status W

PROPOSED ACCEPT.

IEEE P802.3cd 50 Gb/s, 100 Gb/s, 200 Gb/s Ethernet Initial Sponsor ballot comments

Cl 080 SC **80.1.3** P **97** L **47** # **i-70**
Marris, Arthur Cadence Design Syst
Comment Type E **Comment Status D** <bucket>
40GBASE-T is missing from the list
SuggestedRemedy
Add:
m) The MDI as specified in Clause 113 for 40GBASE-T uses a 4 lane data path.
Proposed Response Response Status W
PROPOSED ACCEPT IN PRINCIPLE.
To align with the 802.3-201x revision implement the suggested remedy.

Cl 091 SC **91.5.3.1** P **111** L **5** # **i-4**
Marris, Arthur Cadence Design Syst
Comment Type TR **Comment Status D** <bucket>
Maintenance request 1299 has been implemented by the P802.3cj revision project to the base standard so there is no need for it in 802.3cd
SuggestedRemedy
Remove the text and figure 91-8 in 802.3cd in Clauses 45 and 91 concerning maintenance request 1299.
Proposed Response Response Status W
PROPOSED ACCEPT.

Cl 093A SC **93A.1.4.2** P **332** L **38** # **i-166**
Dudek, Michael Cavium
Comment Type T **Comment Status D** <bucket>
The footnote below table 93A-1 implies that there is more information about what to do with C(-2) for clauses that don't have it in 93A.1.4.2. There isn't any and it should be added.
SuggestedRemedy
Add a paragraph. "Some clauses do not provide information about c(-2). For those clauses c(-2) is always zero.
Proposed Response Response Status W
PROPOSED ACCEPT IN PRINCIPLE.
The information for c(-2) when the clause doesn't provide it exists in 93A.1.6 (page 333) rather than 93A.1.4.2.
Change the cross-reference in the footnote of table 93A-1 from 93A.1.4.2 to 93A.1.6.

Cl 120 SC **120.5.7** P **122** L **11** # **i-10**
Anslow, Peter Ciena Corporation
Comment Type E **Comment Status D** <bucket>
Heading 120.5.7 is being added with an Insert editing instruction, so it should not be underlined
SuggestedRemedy
Remove the underline from the heading 120.5.7
Proposed Response Response Status W
PROPOSED ACCEPT.

Cl 131 SC **131.1.2** P **126** L **15** # **i-144**
Nicholl, Gary Cisco Systems, Inc.
Comment Type TR **Comment Status D** <bucket>
"uses a two-lane data path as specified in Annex 135F or Annex 135G." should be "uses a one-lane data path as specified in Annex 135F or Annex 135G"
SuggestedRemedy
Change "two-lane" to "one-lane"
Proposed Response Response Status W
PROPOSED ACCEPT.

Cl 131 SC **131.5** P **134** L **5** # **i-6**
Anslow, Peter Ciena Corporation
Comment Type E **Comment Status D** <bucket>
In the heading row of Table 131-6, "Gbd" should be "GBd" (2 instances)
SuggestedRemedy
In the heading row of Table 131-6, change "Gbd" to "GBd" (2 instances)
Proposed Response Response Status W
PROPOSED ACCEPT.

IEEE P802.3cd 50 Gb/s, 100 Gb/s, 200 Gb/s Ethernet Initial Sponsor ballot comments

Cl 133 SC 133.1.2 P 141 L 17 # i-32
 RAN, ADEE Intel Corporation

Comment Type E Comment Status D <bucket>

"The 50GBASE-R PCS is identical to the 40GBASE-R PCS specified in Clause 82 with the following exceptions:"

The list of exceptions here is identical to the list of exceptions in "133.2.1 Functions within the PCS".

The repetition is unnecessary. Whenever I read this text I wonder if there is any difference.

Also, The PCS is not _identical_ with these exceptions; it also has slightly different delay constraints. The wording in 133.2.1 is more appropriate.

SuggestedRemedy

Replace the text from the second paragraph to the end of the subclause with the following:

The 50GBASE-R PCS specifications are based on the 40GBASE-R PCS specifications in Clause 82, with the modifications listed in 133.2 and 133.3.

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 133 SC 133.1.4 P 141 L 50 # i-16
 Anslow, Peter Ciena Corporation

Comment Type E Comment Status D <bucket>

Space missing between number and unit

SuggestedRemedy

Change 50Gb/s to 50 Gb/s using a non-breaking space (Ctrl space)

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 134 SC 134.1.1 P 151 L 13 # i-147
 Nicholl, Gary Cisco Systems, Inc.

Comment Type E Comment Status D <bucket>

In bullet (1) shouldn't we also mention that the nominal rate for the PCS lanes is different than the noiminal rate for 100G PCS lanes. We have a similar statement at the beginning of Clause 133.

SuggestedRemedy

Add some text to include the nominal rate of the PCS lanes, and note that the nominal rate is different from the 100G PCS lanes. Also add reference to 134.2.

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 134 SC 134.1.1 P 151 L 15 # i-148
 Nicholl, Gary Cisco Systems, Inc.

Comment Type E Comment Status D <bucket>

Add a reference at the end of the bullet 3 pointing to section 134.5.2.7

SuggestedRemedy

Add a reference at the end of the bullet 3 pointing to section 134.5.2.7

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 134 SC 134.1.1 P 151 L 18 # i-149
 Nicholl, Gary Cisco Systems, Inc.

Comment Type E Comment Status D <bucket>

Add a reference at the end of the bullet 4 pointing to section 134.5.2.6.

SuggestedRemedy

Add a reference at the end of the bullet 4 pointing to section 134.5.2.6.

Proposed Response Response Status W

PROPOSED ACCEPT.

IEEE P802.3cd 50 Gb/s, 100 Gb/s, 200 Gb/s Ethernet Initial Sponsor ballot comments

Cl 134 SC 134.1.1 P 151 L 22 # i-150
 Nicholl, Gary Cisco Systems, Inc.
 Comment Type E Comment Status D <bucket>
 Add a reference at the end of the bullet 5 pointing to section 134.5.4.
 SuggestedRemedy
 Add a reference at the end of the bullet 5 pointing to section 134.5.4.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 134 SC 134.5.2.6 P 156 L 20 # i-62
 Trowbridge, Stephen Nokia
 Comment Type E Comment Status D <bucket>
 Figure 134-3 has some sloppy drawing elements. The line above amp_tx_0 is either a different width than the line above amp_tx_2 or is two lines slightly offset. The line to the right of amp_tx_3(56:57) doesn't quite line up with the line between RS index 12 and 13 on the row above at every level of magnification on the PDF
 SuggestedRemedy
 Tidy up the figure. Zoom in close and nudge the items to line up. Use continuous lines where things are supposed to line up
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 134 SC 134.5.2.8 P 156 L 40 # i-42
 RAN, ADEE Intel Corporation
 Comment Type E Comment Status D <bucket>
 "in a round robin distribution from the lowest to the highest numbered FEC lane"
 This can be simplified, since there are only two FEC lanes.
 Also in 134.5.3.6 and in the corresponding PICS.
 SuggestedRemedy
 Change the quoted text to
 "alternating between FEC lanes 0 and 1".
 Update PICS items TF10 and RF11 accordingly.
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Change the identified text in 134.5.2.8:
 from: "one 10-bit symbol at a time in a round robin distribution from the lowest to the highest numbered FEC lane "
 to: "one 10-bit symbol at a time alternating between FEC lanes 0 and 1"
 Change the value/comment text for PICS TF10 in 134.7.4.1:
 from: "Distributed to 2 FEC lanes, one 10-bit symbol at a time in a round robin distribution from the lowest to the highest numbered FEC lane"
 to: "Distributed to 2 FEC lanes, one 10-bit symbol at a time alternating between FEC lanes 0 and 1"
 Note, the same change is not applicable for 134.5.3.6 and the associated PICS RF11, as in this case the data is distributed to four PCS lanes and the text cannot be simplified as suggested by the commenter.

IEEE P802.3cd 50 Gb/s, 100 Gb/s, 200 Gb/s Ethernet Initial Sponsor ballot comments

Cl 134 SC 134.5.3.1 P 157 L 4 # i-63
 Trowbridge, Stephen Nokia

Comment Type E Comment Status D <bucket>

Several of the bit numbers in Figure 134-4 are touching the lines on the right side of the box: Four instances of "65" on line 4 and 256 on line 12.

SuggestedRemedy

Adjust the position of these numbers to be the same distance from the right edge of the box as the "0" is from the left edge of the corresponding box. The digits 0 and 9 should be centered in the C543, C542 boxes. Some similar adjustments (although fewer problems) should be made to Figure 134-5

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 134 SC 134.5.3.7 P 160 L 26 # i-43
 RAN, ADEE Intel Corporation

Comment Type E Comment Status D <bucket>

Missing period after "am_rxmapped".

SuggestedRemedy

Add a period.

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 134 SC 134.5.4 P 160 L 32 # i-35
 RAN, ADEE Intel Corporation

Comment Type E Comment Status D <bucket>

Superfluous period after "diagrams".

SuggestedRemedy

Remove it.

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 134 SC 134.5.4.2.3 P 162 L 52 # i-36
 RAN, ADEE Intel Corporation

Comment Type E Comment Status D <bucket>

Missing period after "FEC lane".

SuggestedRemedy

Add a period.

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 134 SC 134.6.11 P 165 L 49 # i-40
 RAN, ADEE Intel Corporation

Comment Type E Comment Status D <bucket>

Superfluous period after "91.5.4.3".

SuggestedRemedy

Delete it.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

[Editor's note. Updated since first posting.]

Replace period with space.

Cl 134 SC 134.6.17 P 166 L 36 # i-38
 RAN, ADEE Intel Corporation

Comment Type E Comment Status D <bucket>

Missing period after "(see 134.5.2.2)".

SuggestedRemedy

Add a period.

Proposed Response Response Status W

PROPOSED ACCEPT.

IEEE P802.3cd 50 Gb/s, 100 Gb/s, 200 Gb/s Ethernet Initial Sponsor ballot comments

Cl 134 SC 134.7.4.1 P 170 L 3 # i-41
 RAN, ADEE Intel Corporation

Comment Type T Comment Status D <bucket>

Item TF8 "feature" text "Alignment marker insertion point" is incorrect.

It resembles item TF7 "Alignment marker insertion", but the requirement it refers to in 134.5.2.6 is stated differently: the 257-bit block _following_ the AM corresponds to the PCS blocks 0, 1, 2 and 3 following the alignment marker. (P156 L4)

SuggestedRemedy

Change "feature" text from "Alignment marker insertion point" to "First 257-bit block inserted after am_txmapped".

Change "value/comment" by deleting the aforementioned words.

Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.

Change the "feature" text for PICS TF8 in 134.7.4.1:
 from: "Alignment marker insertion point"
 to: "First 257-bit block inserted after am_txmapped"

Cl 135 SC 135 P 176 L 52 # i-45
 RAN, ADEE Intel Corporation

Comment Type E Comment Status D <bucket>

The identifiers p, q, i, j, and k are not consistently italicized throughout this clause.

There are also identifiers m, n, and z, denoting number of lanes, which are never italicized; so it's unclear whether p and q (which also denote the number of lanes) should be italicized.

Since p usually it italicized, I assume that all instances of p and q should be italicized. It may be decided otherwise. But for a specific identifier it should be consistent.

SuggestedRemedy

Search through clause 135 for isolated p/q/i/j/k and for UNITDATA_k and UNITDATA_i, and italicize the p/q/i/j/k identifiers.

Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 135 SC 135.1.4 P 175 L 18 # i-151
 Dudek, Michael Cavium

Comment Type E Comment Status D <bucket>

poor grammar.

SuggestedRemedy

add word "in" after specified

Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 135 SC 135.3 P 176 L 44 # i-44
 RAN, ADEE Intel Corporation

Comment Type E Comment Status D <bucket>

Superfluous ")" after "indication".

SuggestedRemedy

Delete it.

Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 135 SC 135.3 P 177 L 22 # i-64
 Trowbridge, Stephen Nokia

Comment Type TR Comment Status D <bucket>

It is not correct that the PMA passes symbols from the input lanes to the output lanes unless the symbols are bits. According to Figure 135-5, PAM4 symbols are decoded (converted to pairs of bits), passed through a bit mux, and encoded to PAM4 symbols at the output.

SuggestedRemedy

Change "the PMA passes symbols from the input lanes to the output lanes" to "the PMA passes the bits represented by the symbols from the input lanes into encoded symbols on the output lanes". Same issue Page 178 line 5 in the reverse direction.

Proposed Response Response Status W
 PROPOSED ACCEPT.

IEEE P802.3cd 50 Gb/s, 100 Gb/s, 200 Gb/s Ethernet Initial Sponsor ballot comments

Cl 135 SC 135.5.10 P 186 L 17 # i-152
 Dudek, Michael Cavium
 Comment Type E Comment Status D <bucket>
 poor grammar.
 SuggestedRemedy
 add word "it " after not
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 135 SC 135.5.10.1 P 186 L 24 # i-153
 Dudek, Michael Cavium
 Comment Type E Comment Status D <bucket>
 The intent here is to differentiate between NRZ test patterns and PAM4 test patterns (if it isn't this sentence has little value). Using "clause" here includes both.
 SuggestedRemedy
 Change "clause" to "sub-clause". Also on line 46
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 On page 185 lines 24 and 46 change "clause" to "subclause".

Cl 135 SC 135.7.4.2 P 193 L 19 # i-46
 RAN, ADEE Intel Corporation
 Comment Type T Comment Status D <bucket>
 I can't find the definitions of conditional features "PIU", "PID", and "PIP" which appear in the status column..
 SuggestedRemedy
 Add the definitions for these features, or change the conditions of items using them to something else.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 135 SC 135.7.4.3 P 194 L 19 # i-47
 RAN, ADEE Intel Corporation
 Comment Type E Comment Status D <bucket>
 It doesn't make sense that all items in this table have status "M". They should be conditional on data rate and number of lanes.
 In addition, item E8 requires 53.125 GbD for a one-lane interface; does this rule out a one-lane 50GBASE-*R PMD?
 SuggestedRemedy
 Add necessary conditions for each case.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 135 SC 135.7.4.3 P 194 L 20 # i-155
 Dudek, Michael Cavium
 Comment Type E Comment Status D <bucket>
 Subclause references are missing
 SuggestedRemedy
 Add them
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 135B SC 135B.5.4.2 P 345 L 12 # i-167
 Dudek, Michael Cavium
 Comment Type T Comment Status D <bucket>
 There are no exceptions to Table 83D-5 in 135B.3.2
 SuggestedRemedy
 Delete "with the exceptions in 135B.3.2"
 Proposed Response Response Status W
 PROPOSED ACCEPT.

IEEE P802.3cd 50 Gb/s, 100 Gb/s, 200 Gb/s Ethernet Initial Sponsor ballot comments

Cl 135C SC 135C.1 P 347 L 22 # i-168
 Dudek, Michael Cavium
 Comment Type E Comment Status D <bucket>
 poor English
 SuggestedRemedy
 Change "using" to "uses"
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 135F SC 135F.6.4.1 P 371 L 38 # i-171
 Dudek, Michael Cavium
 Comment Type T Comment Status D <bucket>
 The 12mV is incorrect. It is 30mV in the specifications in 120D.3.1 and was corrected in the 802.3bs PICs from 12mV to 30mV in the last revision
 SuggestedRemedy
 Change 12mV to 30mV.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 135F SC 135F.6.4.3 P 372 L 36 # i-172
 Dudek, Michael Cavium
 Comment Type T Comment Status D <bucket>
 The Pics for the Channel Return loss is missing
 SuggestedRemedy
 Add the equivalent Pics to CC2 in 120D.5.4.3
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 136 SC 136 P 207 L 20 # i-158
 Dudek, Michael Cavium
 Comment Type T Comment Status D <bucket>
 There are two cable assembly test fixtures in the cable assembly specifications.
 SuggestedRemedy
 Change "the cable assembly test fixture" to "two cable assembly test fixtures"
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.

The comment correctly points out that two test fixtures are included in the specifications.
 However, the test fixtures and the cable assembly include the mated connectors; there is no need to list the mated connector pairs separately.
 Change from "Two mated connector pairs and the cable assembly test fixture"
 To "Two cable assembly test fixtures".

Cl 136 SC 136.3 P 200 L 45 # i-157
 Dudek, Michael Cavium
 Comment Type E Comment Status D <bucket>
 With just two possible values of l the use of "or" instead of "to" is better.
 SuggestedRemedy
 Change "to" to "or"
 Proposed Response Response Status W
 PROPOSED REJECT.

This is consistent with other definitions with multiple lanes, e.g, 0 to 3. Also, it is not incorrect as written.

Cl 136 SC 136.8.1 P 207 L 15 # i-24
 Lusted, Kent Intel Corporation
 Comment Type ER Comment Status D <bucket>
 Incorrect cross reference. this should reference 136.10 (Channel characteristics), not 136.9 (PMD electrical characteristics)
 SuggestedRemedy
 Change reference to 136.10
 Proposed Response Response Status W
 PROPOSED ACCEPT.

IEEE P802.3cd 50 Gb/s, 100 Gb/s, 200 Gb/s Ethernet Initial Sponsor ballot comments

Cl 136 SC 136.8.2 P 208 L 6 # i-26
Lusted, Kent Intel Corporation

Comment Type ER Comment Status D <bucket>

The second paragraph in 136.8.2 reference the tx_symbol values as "three" and "zero".
The first paragraph in 136.8.3 reference the rx_symbol values as "three" and "zero".

however, the 3rd paragraph of 136.8.2 does not use "three" and "zero" but "3" and "0".

SuggestedRemedy

In the 3rd paragraph of 136.8.2, change to "three" and "zero"

Proposed Response Response Status W

PROPOSED REJECT.

The 3rd paragraph uses "3" and "0" because in TRAINING mode the input to the PMD transmit function comes from the PMD control function, which is specified using the numbers 0 to 3 (the numbers are mapped to tx_symbol values, see 136.8.11.1).

Cl 136 SC 136.8.11.1 P 210 L 4 # i-27
Lusted, Kent Intel Corporation

Comment Type TR Comment Status D <bucket>

the term "the symbol values..." in the parenthesis is a bit confusing. The first sentence of the paragraph references PAM4 symbols as well as tx_symbol and rx_symbol.

SuggestedRemedy

change "the symbol values" to "the PAM4 symbol values"

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 136 SC 136.8.11.4.1 P 215 L 47 # i-89
Slavick, Jeff Broadcom Limited

Comment Type E Comment Status D <bucket>

This sub-section has 2 chunks of information, the first part describes how to Request an Initial Condition and the second part how to respond to a Request. It would be cleaner if these were split into two sections.

SuggestedRemedy

Change title of 136.8.4.11.1 to be "Initial condition setting request process"
Insert new sub-heading 136.8.4.11.2 titled "Initial condition setting response process" before the paragraph starting with "The handling of"
Update 136.8.11.7.2 UPDATE_IC reference to the new sub-section

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

[Editor's note. Updated since first posting.]

This response is the same as the suggested remedy, except with subclause number corrected.

Change title of 136.8.11.4.1 to be "Initial condition setting request process".

Insert new subclause heading 136.8.11.4.2 titled "Initial condition setting response process" before the paragraph starting with "The handling of".

Update 136.8.11.7.2 UPDATE_IC reference to the new subclause 136.8.11.4.2.

Cl 136 SC 136.8.11.4.2 P 216 L 28 # i-90
Slavick, Jeff Broadcom Limited

Comment Type E Comment Status D <bucket>

This sub-section has 2 chunks of information, the first part describes how to Request a Coefficient update and the second part how to respond to a Request. It would be cleaner if these were split into two sections.

SuggestedRemedy

Change title of 136.8.4.11.2 to be "136.8.4.2.11.3 Coefficient update request process"
Insert new sub-heading 136.8.4.11.4 titled "Coefficient update response process" before the paragraph starting with "The handling of"
Update 136.8.11.7.2 UPDATE_C(k) reference to the new sub-section

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Resolve with comment i-89 using appropriate updated subclause numbers.

IEEE P802.3cd 50 Gb/s, 100 Gb/s, 200 Gb/s Ethernet Initial Sponsor ballot comments

Cl 136 SC 136.8.11.6 P 218 L 15 # i-159

Dudek, Michael Cavium

Comment Type E Comment Status D <bucket>

It would read better if the order of the sentence were changed.

SuggestedRemedy

Change "The time from the receipt of a new request to the time that request is acknowledged shall be less than 2 ms when the receiver frame lock bit in the status field of transmitted training frames is set to 1." to "When the receiver frame lock bit in the status field of transmitted training frames is set to 1 the time from the receipt of a new request to the time that request is acknowledged shall be less than 2 ms."

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Change FROM

"The time from the receipt of a new request to the time that request is acknowledged shall be less than 2 ms when the receiver frame lock bit in the status field of transmitted training frames is set to 1."

TO

"When the receiver frame lock bit in the status field of transmitted training frames is set to 1, the time from the receipt of a new request to the acknowledgment of that request shall be less than 2 ms."

Cl 136 SC 136.9.3 P 225 L 37 # i-50

RAN, ADEE Intel Corporation

Comment Type E Comment Status D <bucket>

"1 200"

According to the style guide (13.3.2), "In numbers of four digits, the space is not necessary, unless four-digit numbers are grouped in a column with numbers of five digits or more".

SuggestedRemedy

Remove the space here and in all other occurrences of four-digit numbers.

Consider removing spaces from all numbers within normal text (excluding tables).

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Change "1 200" to "1200".

See also comment i-86.

Cl 136 SC 136.9.3 P 226 L 7 # i-75

Mellitz, Richard Samtec, Inc.

Comment Type TR Comment Status D <bucket>

see previous

SuggestedRemedy

see previous

Proposed Response Response Status W

PROPOSED REJECT.

Comment and remedy do not provide sufficient detail to make any change in the draft.

Cl 137 SC 137.12.3 P 256 L 40 # i-55

RAN, ADEE Intel Corporation

Comment Type E Comment Status D <bucket>

Large font size in "RS(544,514)".

SuggestedRemedy

Fix it.

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 137 SC 137.12.4.3 P 258 L 47 # i-164

Dudek, Michael Cavium

Comment Type T Comment Status D <bucket>

Clause 137.9.1 contains an exception to 93.8.1.1. We should therefore refer to 137.9.1

SuggestedRemedy

Change 93.8.1.1 to 137.9.1

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

(accepting the suggested remedy)

In item TC1, change "subclause" from 93.8.1.1 to 137.9.1, adding internal cross-reference.

IEEE P802.3cd 50 Gb/s, 100 Gb/s, 200 Gb/s Ethernet Initial Sponsor ballot comments

Cl 137 SC 137.12.4.3 P 258 L 50 # i-56
 RAN, ADEE Intel Corporation

Comment Type T Comment Status D <bucket>

Differential and common mode return loss are defined in Table 120D-1.

SuggestedRemedy

Change "value/comment" in TC3 and TC3 to "Per Table 120D-1".

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Change "value/comment" in both TC3 and TC4 from "Meets equation constraints" to "Per Table 120D-1".

Cl 137 SC 137.12.4.4 P 259 L 24 # i-165
 Dudek, Michael Cavium

Comment Type T Comment Status D <bucket>

Clause 137.9.1 contains an exception to 93.8.2.1. We should therefore refer to 137.9.1

SuggestedRemedy

Change 93.8.2.1 to 137.9.1

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

(accepting the suggested remedy)

In item RC1, change "subclause" from 93.8.2.1 to 137.9.1, adding internal cross-reference.

Cl 138 SC 138.8.2 P 274 L 18 # i-5
 Anslow, Peter Ciena Corporation

Comment Type T Comment Status D <bucket>

Comments #128 and #130 against D2.0 of the 802.3 revision project removed TIA-455-127-A-2006 from the references section of the base standard. See:
<http://www.ieee802.org/3/cj/comments/P8023-D2p0-Comments-Final-byID.pdf#page=33>
 This comment proposes to make equivalent changes to the P802.3cd draft.

SuggestedRemedy

In 138.8.2, delete "TIA/EIA-455-127-A or"

In 138.11.4.4 OM2, delete "TIA/EIA-455-127-A or"

In 139.7.2, and 140.7.2:

change the subclause title to "Wavelength and side mode suppression ratio (SMSR)"
 in the text change "wavelength" to "wavelength and SMSR" and delete "TIA/EIA-455-127-A or"

In Table 139-10: replace the em-dash with a cross-reference to subclause 139.7.2

In Table 140-10: replace the em-dash with a cross-reference to subclause 140.7.2

In 139.11.4.5 OM2 and 140.11.4.4 OM2:

change "Center wavelength" to "Center wavelength and SMSR"

delete "TIA/EIA-455-127-A or"

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 138 SC 138.10 P 277 L 13 # i-59
 RAN, ADEE Intel Corporation

Comment Type E Comment Status D <bucket>

Paragraph is not justified (i.e. it is aligned left).

SuggestedRemedy

Format as regular clause text.

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 140 SC 140.1 P 309 L 33 # i-15
 Anslow, Peter Ciena Corporation

Comment Type E Comment Status D <bucket>

There are some items of text in Table 140-1 that should be cross-references.

SuggestedRemedy

Make the following into cross-references: on lines 33 to 38, "135D", "135E", "135F", "135G"

Proposed Response Response Status W

PROPOSED ACCEPT.