

File comments.csv 1st Sponsor recirculation ballot comments

Cl **69B** SC **69B.4.2** P **170** L **48** # **r01-1**  
 Smith, Daniel Seagate Technology L  
 Comment Type **E** Comment Status **A**  
 \*\*\* Field CommentType updated on 9/12/2017 from ER to E \*\*\*  
 Figure 69B-1a title is incorrect.  
 SuggestedRemedy  
 Portion of title that says 2.5GBASE-KXR should say 2.5GBASE-KX, as shown in the figure.  
 Response Response Status **C**  
 ACCEPT.

Cl **69B** SC **69B.4.3** P **172** L **23** # **r01-2**  
 Smith, Daniel Seagate Technology L  
 Comment Type **E** Comment Status **A**  
 \*\*\* Field CommentType updated on 9/12/2017 from ER to E \*\*\*  
 Added space in Figure 69B-5a title.  
 Also in the title of Figure 69B-5b.  
 SuggestedRemedy  
 Remove space before the word 'Insertion'.  
 Response Response Status **C**  
 ACCEPT.

Cl **FM** SC **FM** P **1** L **2** # **r01-3**  
 Anslow, Peter Ciena Corporation  
 Comment Type **E** Comment Status **A**  
 Comment i-2 against D3.0 was "ACCEPT" but some of the changes in the suggested remedy have not been made. However, equivalent changes proposed in comment i-96 were not made either and an alternative response implemented for lines 1 to 5. The resulting draft makes no sense. If this was not in the front matter, I would make this an "ER" comment.

SuggestedRemedy  
 At line 2, replace "(Amendment of IEEE Std 802.3TM-2015.)" with text used by several other amendments: "(Amendment of IEEE Std 802.3TM-2015 as amended by [list to be populated during publication process])".  
 At line 26,  
 replace:  
 "as amended by IEEE Std 802.3bvTM-2017, IEEE Std 802.3TM-2015/Cor1-2017, IEEE Std 802.3bsTM-20xx and IEEE Std 802.3ccTM-20xx"  
 with:  
 "as amended by IEEE Std 802.3bwTM-2015, IEEE Std 802.3byTM-2016, IEEE Std 802.3bqTM-2016, IEEE Std 802.3bpTM-2016, IEEE Std 802.3brTM-2016, IEEE Std 802.3bnTM-2016, IEEE Std 802.3bzTM-2016, IEEE Std 802.3buTM-2016, IEEE Std 802.3bvTM-2017, IEEE Std 802.3TM-2015/Cor1-2017, IEEE Std 802.3bsTM-20xx and IEEE Std 802.3ccTM-20xx."  
 Response Response Status **C**  
 ACCEPT.

Cl **1** SC **1.4.74** P **28** L **18** # **r01-4**  
 Anslow, Peter Ciena Corporation  
 Comment Type **ER** Comment Status **A**  
 Comment i-18 against D3.0 was "ACCEPT" but should have been rejected. 1.4.74 in IEEE Std 802.3-2015 is the definition for "2BASE-TL", so clearly, the new definition for 2.5GBASE-KX cannot have that number.  
 SuggestedRemedy  
 Reinstate the editing instruction to what it was in D3.0: "Insert the following definition for 2.5GBASE-KX, before 1.4.74a 2.5GBASE-T (as inserted by IEEE Std 802.3bz-2016) as follows:"  
 Change the subclause number for "2.5GBASE-KX" back to 1.4.74aa  
 Response Response Status **C**  
 ACCEPT.

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CI 1 SC 1.4.107 P 28 L 46 # r01-5  
 Anslow, Peter Ciena Corporation

Comment Type ER Comment Status A

Comment i-8 against D3.0 was "ACCEPT" but something else entirely has been implemented.

SuggestedRemedy

Change the editing instruction to: "Change 1.4.107 (as modified by IEEE Std 802.3bs-20xx) as follows:

"Change the definition to: "An IEEE 802.3 family of Physical Layer devices using the 64B/66B encoding defined in Clause 49, Clause 82, Clause 107, <s>or </s>Clause 119<u>, or Clause 129</u>. (See IEEE Std 802.3, Clause 49, Clause 82, Clause 107, <s>or </s>Clause 119<u>, or Clause 129</u>.)" where <s> and </s> are the start and end of strikethrough font and <u> and </u> are the start and end of underline font.

Response Response Status C

ACCEPT.

CI 45 SC 45.2.1.80 P 35 L 22 # r01-6  
 Anslow, Peter Ciena Corporation

Comment Type E Comment Status A

The editing instruction for 45.2.1.80 is "Insert a new paragraph following the first paragraph at 45.2.1.80 as follows:" This means that the first paragraph of 45.2.1.80 should not be shown and the inserted paragraph should not appear in underline font. "Clause 130" should be a cross-reference.

SuggestedRemedy

Move the editing instruction to be after the heading for 45.2.1.80. Delete the first paragraph of 45.2.1.80. Remove the underline from the inserted paragraph. Change "Clause 130" to a cross-reference to Clause 130.

Response Response Status C

ACCEPT.

CI 45 SC 45.2.1.80 P 35 L 36 # r01-7  
 Anslow, Peter Ciena Corporation

Comment Type T Comment Status A

In Table 45-60, the reserved row bits are being changed from "1.150.15:2" to "1.150.15:3" rather than what is currently shown as an insertion of "1.150.15:3". In the bottom row of Table 45-60, "1.150.1.2" should be "1.150.2" In the heading of 45.2.1.80.3, "1.150.1.2" should be "1.150.2"

SuggestedRemedy

In the reserved row of Table 45-60 show "1.150.15:2" in strikethrough font as well as "1.150.15:3" in underline font. In the bottom row of Table 45-60, change "1.150.1.2" to "1.150.2" In the heading of 45.2.1.80.3, change "1.150.1.2" to "1.150.2"

Response Response Status C

ACCEPT IN PRINCIPLE.

For consistency with other similar changes, on line 36, left-most cell, change to read: <u>1.150.15:<u><s>2<s><u>3<u>.

CI 45 SC 45.2.1.89.6 P 36 L 31 # r01-8  
 Anslow, Peter Ciena Corporation

Comment Type E Comment Status A

In "see 128.6.4", "128.6.4" should be a cross-reference

SuggestedRemedy

Make "128.6.4" a cross-reference

Response Response Status C

ACCEPT.

CI 45 SC 45.5.3.6 P 44 L 42 # r01-9  
 Anslow, Peter Ciena Corporation

Comment Type E Comment Status A

The Status of "\*\*2.5GX" and "\*\*5GR" has been changed to "PCS:O", but the Support column has not been changed accordingly. Also, "\*\*2.5GX" and "\*\*5GR" are not used anywhere else in the PICS, so they shouldn't have a "\*\*

SuggestedRemedy

Change the Support entries for "\*\*2.5GX" and "\*\*5GR" to "Yes [ ] No [ ] N/A [ ]". Change "\*\*2.5GX" to "2.5GX" Change "\*\*5GR" to "5GR"

Response Response Status C

ACCEPT.

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Cl 46 SC 46 P 45 L 4 # r01-10  
 Anslow, Peter Ciena Corporation

Comment Type TR Comment Status A

The normative behaviour of the RS defined in 46.3.3.3 cannot be changed with the addition of a note (which is defined to be informative).  
 The relevant part of 46.3.3 for this is 46.3.3.3, so that is where the change should be made.  
 The headings for 46.3 and 46.3.3 are missing.

SuggestedRemedy

Insert the headings for 46.3, 46.3.3, and 46.3.3.3.  
 Change the editing instruction to: "Change 46.3.3.3 as follows:"  
 Show appropriate changes to the text of 46.3.3.3 that preserve the behaviour for the existing PHYs that use this Clause and add normative support for a Start control character received on either lane 2 or lane 3 for 2.5GBASE-X.

Response Response Status C

ACCEPT IN PRINCIPLE.

Insert the headings for 46.3, 46.3.3, and 46.3.3.3.  
 46. Reconciliation Sublayer (RS) and 10 Gigabit Media Independent Interface (XGMII)  
 46.3 XGMII functional specifications  
 46.3.3 Error and fault handling  
 46.3.3.3 Response to received invalid frame sequences

Change the editing instruction to:  
 Insert the following text at the end of 46.3.3.3 as shown:

Replace:  
 Note: To support 2.5GBASE-X compatibility with a 1000BASE-X PCS/PMA running 2.5 times faster, a 2.5Gb/s MAC/RS implementation has to support a Start control character received on either lane 2 or lane 3.

With:  
 To support 2.5GBASE-X compatibility with a 1000BASE-X PCS/PMA running 2.5 times faster as described in Annex 127A, a 2.5GBASE-X MAC/RS implementation is required to support an SFD received on either lane 2 or lane 3.

Cl 69 SC 69.2.3 P 49 L 7 # r01-11  
 Anslow, Peter Ciena Corporation

Comment Type E Comment Status A

After this amendment is applied the table titles will be:  
 Table 69-1--Nomenclature and clause correlation for 1 Gb/s and 10 Gb/s Backplane Ethernet Physical Layers  
 Table 69-1a--Nomenclature and clause correlation for 25 Gb/s Backplane Ethernet Physical Layers  
 Table 69-2--Nomenclature and clause correlation for 40 Gb/s and 100 Gb/s Backplane Ethernet Physical Layers  
 Table 69-2a--Nomenclature and clause correlation for 2.5 Gb/s and 5 Gb/s Backplane Ethernet Physical Layers  
 After the P802.3cd amendment is applied, the following tables will be added:  
 Table 69-2b--Nomenclature and clause correlation for 50Gb/s Backplane Ethernet Physical Layers  
 Table 69-2c--Nomenclature and clause correlation for 100Gb/s two-lane Backplane Ethernet Physical Layers  
 Table 69-2d--Nomenclature and clause correlation for 200Gb/s Backplane Ethernet Physical Layers  
 This order makes sense except for 2.5 Gb/s and 5 Gb/s which would be better between Table 69-1 and 69-1a.  
 Also, the title of Table 69-2 should be changed to clarify that it does not contain all 100G PHYs.

SuggestedRemedy

Change the last paragraph in 69.2.3 from:  
 "Table 69-1, Table 69-1a, <s>and </s>Table 69-2,<u> and Table 69-2a</u> specify ..." to:  
 "Table 69-1, <u> Table 69-1aa, </u>Table 69-1a, and Table 69-2 specify ..."  
 where <s> and </s> are the start and end of strikethrough font and <u> and </u> are the start and end of underline font.  
 Change the editing instruction to: "Insert Table 69-1aa before Table 69-1a (as inserted by IEEE Std 802.3by-2016) as follows:  
 Change the inserted table from Table 69-2a to Table 69-1aa

Response Response Status C

ACCEPT.

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Cl 73 SC 73.1 P 53 L 26 # r01-12  
 Anslow, Peter Ciena Corporation

Comment Type E Comment Status A  
 As the editing instruction has been changed to "Replace", it is not appropriate to have the additions to the figure shown in underline font as this would be preserved in the amended document.

SuggestedRemedy  
 remove the underline from "2.5 Gb/s, 5 Gb/s, "

Response Response Status C  
 ACCEPT.

Cl 127 SC 127.2.7.1.7 P 86 L 25 # r01-13  
 Anslow, Peter Ciena Corporation

Comment Type E Comment Status A  
 In "for TX\_CLK in 46.3.1.1)..", there is a double ".." and "46.3.1.1" should have character tag "External" applied (Forest green).

SuggestedRemedy  
 Change ".." to "." and apply character tag "External" to "46.3.1.1"

Response Response Status C  
 ACCEPT.

Cl 127 SC 127.7 P 102 L 3 # r01-14  
 Anslow, Peter Ciena Corporation

Comment Type E Comment Status A  
 The title of Clause 127 has been changed and it is quoted three times on the PICS proforma first page without the change being made.

SuggestedRemedy  
 In the title of 127.7, the text in 127.7.1, and in the first row of the table in 127.7.2.2:  
 Change "sublayer, type 2.5GBASE-X" to "sublayer for 2.5 Gb/s 8B/10B 2.5GBASE-X"

Response Response Status C  
 ACCEPT.

Cl 129 SC 129.7 P 136 L 3 # r01-15  
 Anslow, Peter Ciena Corporation

Comment Type E Comment Status A  
 The title of Clause 129 has been changed and it is quoted three times on the PICS proforma first page with text that does not match.

SuggestedRemedy  
 In the title of 129.7 and in the first row of the table in 129.7.2.2:  
 Change "Sublayer for 64B/66B, type 5GBASE-R" to "Sublayer for 5 Gb/s 64B/66B, type 5GBASE-R"  
 In the text in 129.7.1 change "(PCS), type 5GBASE-R" to "(PCS) and Physical Medium Attachment (PMA) Sublayer for 5 Gb/s 64B/66B, type 5GBASE-R"

Response Response Status C  
 ACCEPT IN PRINCIPLE.

In the text in 129.7.1 change "(PCS), type 5GBASE-R" to "(PCS) and Physical Medium Attachment (PMA) sublayer for 5 Gb/s 64B/66B, type 5GBASE-R".

Change the capitalization of Sublayer to sublayer in the clause title to be consistent with Clause 127 capitalization.

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Cl 0 SC 0 P 28 L 49 # r01-16  
 Anslow, Peter Ciena Corporation

Comment Type E Comment Status A

Now that Clause 46 has been added to the draft, cross-references to Clause 46 should be cross-references and not marked as "External"

SuggestedRemedy

Change all cross-references to Clause 46 from "External" to cross-references. This includes:

- Page 49, line 19
- Page 61, line 19
- Page 63, line 28
- Page 66, line 5
- Page 67, lines 20 and 34
- Page 80, lines 24 and 27
- Page 81, lines 47 and 50
- Page 101, line 30
- Page 107, line 18
- Page 123, line 6
- Page 129, line 19
- Page 130, line 39
- Page 131, line 15
- Page 135, line 4
- Page 141, line 18
- Page 158, line 6

Response Response Status C  
 ACCEPT.

Cl 69A SC 69A.2 P 165 L 22 # r01-17  
 Anslow, Peter Ciena Corporation

Comment Type T Comment Status A

The changes shown in the clean version of the draft for 69A.2 don't make sense as the text shown is the same as the base standard (unlike the version shown in the compare document).

The editing instruction has been changed to "Replace" but the IEEE Style manual says: "Replace is used to make changes in figures or equations by removing the existing figure or equation and replacing it with a new one." Replace is therefore not appropriate for changes to text.

SuggestedRemedy

Apply the other option from comment i-34 (replace is incorrect): Start from the version of 69A.2 in D3.0 and show all of the added text in underline font.

Response Response Status C

ACCEPT IN PRINCIPLE.

The correct reference is i-134.

Delete the replace instruction on line 21 and the text on line 23 because that text is already in the base document.

No other changes are needed to the paragraph.

Cl 69B SC 69B.4.1 P 169 L 16 # r01-18  
 Anslow, Peter Ciena Corporation

Comment Type E Comment Status A

Annex 69B only contains one table, so the newly inserted table should be Table 69B-2 and not Table 69B-1aa (or Table 69B-1a in some places)

SuggestedRemedy

Change the editing instruction on Page 168 to "Insert Table 69B-2 after Table 69B-1 as follows:"

Change all cross-references to this table to be "Table 69B-2"

Response Response Status C

ACCEPT.

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CI 128B SC 128B.3.1 P 206 L 8 # r01-19  
 Anslow, Peter Ciena Corporation

Comment Type E Comment Status A  
 The title of Annex 128B should be quoted three times on the PICS proforma first page. It is correct in the title of 128B.3, but not in the text of 128B.3.1 or the first line of the table in 128B.3.2.2

SuggestedRemedy  
 In the text of 128B.3.1 and the first line of the table in 128B.3.2.2:  
 Change "Annex 128B, Test fixtures" to "Annex 128B, Test Fixtures for 2.5 Gb/s and 5 Gb/s Storage Enclosure Interfaces"

Response Response Status C  
 ACCEPT.

CI 127 SC 127.2.6.4 P 75 L 49 # r01-20  
 Marris, Arthur Cadence Design Syst

Comment Type TR Comment Status A  
 \*\*\* Field CommentType updated on 9/12/2017 from T to TR \*\*\*  
 Ordered sets consist of either one, two, or eight code-groups

SuggestedRemedy  
 Change "four" to "eight"

Response Response Status C  
 ACCEPT.

CI 127 SC 127.2.7.2.2 P 90 L 11 # r01-21  
 Marris, Arthur Cadence Design Syst

Comment Type TR Comment Status A  
 \*\*\* Field CommentType updated on 9/12/2017 from T to TR \*\*\*  
 Make the SPECIAL GO state in figure 127-6 look more like the one in figure 36-6

SuggestedRemedy  
 Replace the IF statement with:  
 tx\_code-group <= tx\_o\_set

Response Response Status C  
 ACCEPT IN PRINCIPLE.

Replace last ELSE statement with:  
 (tx\_code\_group <= /K28.5/)

Change tx\_o\_set definition on page 81, line 44/45 to:

tx\_o\_set  
 One of the following defined ordered sets: /T/, /R/, /I/, /S/, /V/, /L/, or one of the following code-groups: /K28.5/ or /D/.

CI 127 SC 127.2.7.2.2 P 89 L 29 # r01-22  
 Marris, Arthur Cadence Design Syst

Comment Type T Comment Status A  
 tx\_er should be tp\_er

SuggestedRemedy  
 Change tx\_er to tp\_er on line 30 on page 89 in Figure 127-5

Response Response Status C  
 ACCEPT.

File comments.csv 1st Sponsor recirculation ballot comments

Cl 127 SC 127.2.6.1.4 P 82 L 12 # r01-23  
 Marris, Arthur Cadence Design Syst

Comment Type TR Comment Status A  
 \*\*\* Field CommentType updated on 9/12/2017 from T to TR \*\*\*  
 The output of the OCTETS-TO-WORD function is (wd\_rp\_dv<3:0>, wd\_rp\_er<3:0>, wd\_rpd<31:0>)

SuggestedRemedy  
 Change:  
 (we\_rp\_dv<3:0>, we\_rp\_er<3:0>, we\_rpd<31:0>)  
 To:  
 (wd\_rp\_dv<3:0>, wd\_rp\_er<3:0>, wd\_rpd<31:0>)

Response Response Status C  
 ACCEPT IN PRINCIPLE.

Corrected reference, per the author:  
 page 84, line 18.

Cl 127 SC 127.2.2 P 68 L 42 # r01-24  
 Marris, Arthur Cadence Design Syst

Comment Type E Comment Status A  
 Might read better if the word "bits" is added

SuggestedRemedy  
 Change to:  
 The Word-to-Octets process takes the four 2.5GPll symbols, and associated transmit enable and transmit error bits, and transmits one 2.5GPll symbol (tpd<7:0>) and its associated transmit enable (tp\_en) and transmit error (tp\_er) at a time to the PCS Transmit Process.

Response Response Status C  
 ACCEPT IN PRINCIPLE.

The description below Figure 127-2, page 68, line 41 is not consistent with description in clause 127.2.5.3. Use the description from the first sentence of the first paragraph of 127.2.5.3 Word-to-Octets, page 72, line 11.

Cl 69A SC 69A.2 P 165 L 21 # r01-25  
 Law, David Hewlett Packard Enter

Comment Type TR Comment Status A  
 \*\*\* Comment submitted with the file 94360400003-anx 69ACMP.pdf attached \*\*\*

Due to an error in the generation of the compare file 8023cb\_D3p0\_D3p1\_CMP\_28\_Aug\_17.pdf some of the Annex 69A edits that should have been performed to D3.0 are missing.

SuggestedRemedy  
 During the next recirculation ballot:  
 [1] Include the changes in the attached file 8023-anx69ACMP.pdf in the compare file.  
 [2] Mark the entire Annex 69A as changed text.  
 [3] Add an editor's note that reads as follows: 'Editor's note to be deleted after D3.2: Some changes reflected in the 'clean' draft D3.1 of Annex 69A were not reflected in the D3.0 to D3.1 'compare' draft. These missing changes can be found in the file attached to comment r1-xx. As a result of this the entire Annex 69A is open for comment during the D3.2 recirculation ballot.'. r1-xx should be replaced with the actual number of this comment.

Response Response Status C  
 ACCEPT.

Cl 69A SC 69A.2.4 P 166 L 33 # r01-26  
 Anslow, Peter Ciena Corporation

Comment Type E Comment Status A  
 The heading for 69A.2.4 should be "Transmitter control" rather than "Test channel"

SuggestedRemedy  
 Change the heading for 69A.2.4 to "Transmitter control"

Response Response Status C  
 ACCEPT.

Cl 69A SC 69A.3 P 166 L 42 # r01-27  
 Anslow, Peter Ciena Corporation

Comment Type E Comment Status A  
 "Change 69A.3 by as shown." should be "Change 69A.3 as shown."

SuggestedRemedy  
 Change "Change 69A.3 by as shown." to "Change 69A.3 as shown."

Response Response Status C  
 ACCEPT.

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Cl 127 SC 127.2.7.2.2 P 89 L 30 # r01-28  
 McClellan, Brett Marvell Semiconducto

Comment Type T Comment Status A

In Figure 127-5 (PCS transmit ordered set state diagram) both exit paths from  
 END\_OF\_PACKET\_EXT have identical conditions.  
 It appears the exit path on the left was incorrectly changed from "tx\_er=0" to "tx\_er=1".

SuggestedRemedy

change path END\_OF\_PACKET\_EXT to EXTEND\_BY\_1 to have condition "tx\_er=0"

Response Response Status C

ACCEPT IN PRINCIPLE.

Draft 3.0 had tx\_er=0. This should have been tp\_er=0, but occurred due to an editing error.  
 The change should be made to tp\_er=0, which is correct.

Cl 69B SC 69B.4.4 P 173 L 3 # r01-29  
 Smith, Daniel Seagate Technology L

Comment Type TR Comment Status A

\*\*\* Comment submitted with the file 94451000003-  
 completion\_of\_D3p0\_action\_for\_comment\_i-27.pdf attached \*\*\*

Add comment content that was not inserted for comment i-27 of Draft 3.0.

SuggestedRemedy

Correct text, equations, and Figure 69B-6a in 69B.4.4 using the content in the attached file,  
 completion\_of\_D3p0\_action\_for\_comment\_i-27.pdf.

Response Response Status C

ACCEPT.