

IEEE 802.3db D1.1 100G, 200G, 400G Short Reach Fiber Task Force 2nd Task Force review comments

Cl **FM** SC **FM** P **13** L **54** # **54**
 Dudek, Mike Marvell
 Comment Type **ER** Comment Status **D** Bucket
 The written page numbers are not matching the pdf page numbers. These comments are based on the pdf page number.
 SuggestedRemedy
 Fix the discrepancy.
 Proposed Response Response Status **W**
 PROPOSED ACCEPT IN PRINCIPLE.
 Correct the inconsistencies in the page numbers.

Cl **78** SC **78.1.4** P **13** L **13** # **18**
 Nicholl, Gary Cisco
 Comment Type **ER** Comment Status **D** Bucket
 The editing instruction states "unchanged rows not shown", however unchanged rows are shown in Table 78-1.
 SuggestedRemedy
 Change "(unchanged rows not shown)" to "(some unchanged rows not shown)".
 Proposed Response Response Status **W**
 PROPOSED ACCEPT.

Cl **80** SC **80.1.1** P **16** L **3** # **22**
 Nicholl, Gary Cisco
 Comment Type **ER** Comment Status **D** Bucket
 The editing instruction is incorrect. 802.3cu-2021 did not touch "Table 80-5". 802.3cu made a change to "Table 80-4a", as inserted by 802.3cd-2018. The table title on line 6 is also incorrect, and it should be "Table 80-4a and not Table 80-5". There is already a "Table 80-5" in section 80.4.
 SuggestedRemedy
 Change the editing instruction to reference "Table 80-4a" and not "Table 80-5". Also change the table title on line 6 from "Table 80-5" to "Table 80-4a".
 Proposed Response Response Status **W**
 PROPOSED ACCEPT.

Cl **80** SC **80.1.3** P **15** L **10** # **19**
 Nicholl, Gary Cisco
 Comment Type **ER** Comment Status **D** Bucket
 There is a space between "and" and "in" that should be strike through.
 SuggestedRemedy
 Strike through space between "and" and "in" on line 10
 Proposed Response Response Status **W**
 PROPOSED ACCEPT.

Cl **80** SC **80.1.3** P **15** L **11** # **20**
 Nicholl, Gary Cisco
 Comment Type **ER** Comment Status **D** Bucket
 Use a non-breaking hyphen for "100GBASE-SR1"
 SuggestedRemedy
 Use a non-breaking hyphen for "100GBASE-SR1". Check , and fix as necessary, throughout the rest of the document.
 Proposed Response Response Status **W**
 PROPOSED ACCEPT IN PRINCIPLE.
 Use non-breaking hyphen for 100GBASE-SR1 as well as other PMD names throughout the document.

Cl **80** SC **80.1.4** P **15** L **18** # **21**
 Nicholl, Gary Cisco
 Comment Type **ER** Comment Status **D** Bucket
 The editing instruction states "(unchanged rows not shown)", however unchanged rows are shown in Table 80-1.
 SuggestedRemedy
 Change "(unchanged rows not shown)" to "(some unchanged rows not shown)".
 Proposed Response Response Status **W**
 PROPOSED ACCEPT.

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Cl 80 SC 80.4 P16 L51 # 23
 Nicholl, Gary Cisco
 Comment Type ER Comment Status D Bucket
 The editing instruction states "(unchanged rows not shown)", however unchanged rows are shown in Table 80-5.
 SuggestedRemedy
 Change "(unchanged rows not shown)" to "(some unchanged rows not shown)".
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 91 SC 91.5.2.7 P18 L10 # 24
 Nicholl, Gary Cisco
 Comment Type ER Comment Status D Bucket
 Missing space in editing instruction between "2018' and "and".
 SuggestedRemedy
 Insert missing space between "2018' and "and".
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 91 SC 91.5.2.7 P18 L13 # 25
 Nicholl, Gary Cisco
 Comment Type ER Comment Status D Bucket
 The space following "100GBASE-SR1," should also be underlined as it also needs to be inserted.
 SuggestedRemedy
 Underline the space following "100GBASE-SR1,"
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Check elsewhere in the document for this same error.

Cl 91 SC 91.5.3.3 P18 L24 # 26
 Nicholl, Gary Cisco
 Comment Type ER Comment Status D Bucket
 The space following "100GBASE-SR1," should also be underlined as it also needs to be inserted.
 SuggestedRemedy
 Underline the space following "100GBASE-SR1,"
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Check elsewhere in the document for this same error.

Cl 91 SC 91.5.3.3 P18 L31 # 27
 Nicholl, Gary Cisco
 Comment Type ER Comment Status D Bucket
 The space following "100GBASE-VR1," and the space following "100GBASE-SR1," should also be underlined as it also needs to be inserted.
 SuggestedRemedy
 Underline the space following "100GBASE-VR1," and the space following "100GBASE-SR1,"
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Check elsewhere in the document for this same error.

Cl 91 SC 91.5.3.3 P18 L38 # 28
 Nicholl, Gary Cisco
 Comment Type ER Comment Status D Bucket
 The space following "100GBASE-VR1," and the space following "100GBASE-SR1," should also be underlined as it also needs to be inserted.
 SuggestedRemedy
 Underline the space following "100GBASE-VR1," and the space following "100GBASE-SR1,"
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Check elsewhere in the document for this same error.

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Cl 91 SC 91.5.3.3.1 P18 L46 # 29
 Nicholl, Gary Cisco
 Comment Type ER Comment Status D Bucket
 The space following "100GBASE-VR1," and the space following "100GBASE-SR1," should also be underlined as it also needs to be inserted.
 SuggestedRemedy
 Underline the space following "100GBASE-VR1," and the space following "100GBASE-SR1,"
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Check elsewhere in the document for this same error.

Cl 91 SC 91.6.2a P18 L9 # 30
 Nicholl, Gary Cisco
 Comment Type ER Comment Status D Bucket
 The space following "100GBASE-VR1," and the space following "100GBASE-SR1," should also be underlined as it also needs to be inserted.
 SuggestedRemedy
 Underline the space following "100GBASE-VR1," and the space following "100GBASE-SR1," . Check and correct similar instances throughout the rest of the document.
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Check elsewhere in the document for this same error.

Cl 116 SC 116.1.3 P23 L41 # 31
 Nicholl, Gary Cisco
 Comment Type ER Comment Status D Bucket
 The editing instruction states "(unchanged rows not shown)", however unchanged rows are shown in Table 116-2.
 SuggestedRemedy
 Change "(unchanged rows not shown)" to "(some unchanged rows not shown)".
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 116 SC 116.1.4 P24 L24 # 32
 Nicholl, Gary Cisco
 Comment Type ER Comment Status D Bucket
 There appears to be something wrong with the editing instruction and the table title that follows (Table 116-4). This table is actually Table 116-3 in 802.3-2018, 802.3cd-2018 and 802.3cn.
 SuggestedRemedy
 Change editing instruction and table title to "Table 116-3" and not "Table 116-4".
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 116 SC 116.1.4 P25 L14 # 33
 Nicholl, Gary Cisco
 Comment Type ER Comment Status D Bucket
 There appears to be something wrong with the editing instruction and the table title that follows (Table 116-5). This table is actually Table 116-3 in 802.3-2018, 802.3cd-2018 and 802.3cn.
 SuggestedRemedy
 Change editing instruction and table title to "Table 116-4" and not "Table 116-5".
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 116 SC 116.1.4 P25 L36 # 34
 Nicholl, Gary Cisco
 Comment Type ER Comment Status D Bucket
 The wrong row in the table is underlined.
 SuggestedRemedy
 Underline the row for 400GBASE-SR4 and remove the underlining on the row for 400GBASE-SR4.2.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

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Cl 167 SC 167.1 P31 L14 # 37
 Nicholl, Gary Cisco
 Comment Type ER Comment Status D Bucket
 "100GBASE-R PCS" wraps onto two lines in Figure 167.1. Same for "200GBASE-R" and "400GBSAE-R"
 SuggestedRemedy
 Update diagram to fit "100GBASE-R PCS", "200GBASE-R PCS" and "400GBASE-R PCS" on a single line, For an example, see 802.3cd-2018, Figure 138-1.
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE. Update the diagram to fit those words on a single line.

Cl 167 SC 167.1 P40 L25 # 51
 Dudek, Mike Marvell
 Comment Type TR Comment Status D Bucket
 The 100G RX and CGMII are in clause 81 not 80 (as is shown correctly in table 80-5)
 SuggestedRemedy
 Change 80 to 81 two places.
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Change 80 to 81 in Table 167-1 in two places

Cl 167 SC 167.1 P40 L51 # 52
 Dudek, Mike Marvell
 Comment Type E Comment Status D Bucket
 unfortunate line break in the middle of a word
 SuggestedRemedy
 put "behave" on one line.
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 167 SC 167.5.4 P36 L21 # 68
 Ghiasi, Ali Ghiasi Quantum/Marvell
 Comment Type TR Comment Status D Bucket
 The Greater-less than and less than match symbols show up nu and Omega with Preview but its fine if viewed with Acrobat DC
 SuggestedRemedy
 Please correct so document is platform independent
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Use the symbols from the symbol page.

Cl 167 SC 167.5.4 P36 L23 # 38
 Nicholl, Gary Cisco
 Comment Type ER Comment Status D Bucket
 "Table 167-7" in Table 167-5 should be a cross-reference
 SuggestedRemedy
 Change "Table 167-7" in Table 167-5 to a cross-reference.
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Similar to comment #40. Change "Table 167-7" to "Table 167-8" and make the text a cross-reference.

Cl 167 SC 167.5.4 P36 L25 # 39
 Nicholl, Gary Cisco
 Comment Type TR Comment Status D Bucket
 The text is inconsistent with previous ammendments, e.g. clause 122 in 802.3-2018 and clause 151 in 802.3cu-2021.
 SuggestedRemedy
 Change:
 "compliant 100GBASE-VR1, 200GBASE-VR2, 400GBASE-VR4, 100GBASE-SR1, 200GBASE-SR2, or 400GBASE-SR4 signal input"
 to:
 "compliant 100GBASE-R, 200GBASE-R, or 400GBASE-4 signal input"
 Proposed Response Response Status W
 PROPOSED ACCEPT.

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Cl 167 SC 167.5.4 P47 L23 # 53
 Dudek, Mike Marvell
 Comment Type E Comment Status D Bucket
 The Average receive power each lane min is in Table 167-8 not Table 167-7 and should be a hot link.
 SuggestedRemedy
 Change to 167-8 and make it a hot link.
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Similar to comment #38. Change "Table 167-7" to "Table 167-8" and make the text a cross-reference.

Cl 167 SC 167.5.7 P48 L7 # 55
 Dudek, Mike Marvell
 Comment Type E Comment Status D Bucket
 Table 167-7 should be a hot link
 SuggestedRemedy
 fix it. Also on line 19
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Make text "Table 167-7" on line 7 and line 19 a cross-reference.

Cl 167 SC 167.7.1 P39 L7 # 41
 Nicholl, Gary Cisco
 Comment Type ER Comment Status D Bucket
 The order of the parameters in Table 167-7 is not consistent with the order used in 802.3cu (see 802.3cu-2021 Table 151-7 as an example) or the parameters listed in Table 167-11 and in sub-clause 167.8. There was a long discssion in 802.3cu on this topic, so probably best to correct it now (rather than waiting until working group ballot).
 SuggestedRemedy
 Reoder the parameters in Table 167-7 to be consistent with the order used in 802.3cu (see 802.3cu-2021 Table 151-7 as an example), and the order used in sub-clause 167.8 and Table 167-11.
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 This will be implemented with editorial license noting that the parameters for MMF and SMF links are not identical.

Cl 167 SC 167.7.1 P39 L26 # 42
 Nicholl, Gary Cisco
 Comment Type TR Comment Status D Bucket
 Overshoot/Undershoot is a maximum.
 SuggestedRemedy
 Change "Overshoot/undershoot" to "Overshoot/undershoot (max)"
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 167 SC 167.7.1 P39 L41 # 69
 Ghiasi, Ali Ghiasi Quantum/Marvell
 Comment Type TR Comment Status D Bucket
 Encircled flux Greater-less than and less than match symbols show up nu and Omega with Preview but its fine if viewed with Acrobat DC
 SuggestedRemedy
 Please correct so document is platform independent
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 167 SC 167.8.5 P43 L27 # 8
 Le Cheminant, Greg Keysight Technologies
 Comment Type E Comment Status D Bucket
 The concept of using two filters for the TDECQ measurement could be better understood and clearer to implement by describing the function of each filter
 SuggestedRemedy
 Update the existing text for the first as follows: (Line 27).....The first filter represents the system receiver and has a 3 dB bandwidth of approximately 26.5625 GHz.....(Line 29) The second filter represents the dispersion of the fiber and has a 3 dB bandwidth of approximately TBD GHz(Line 34) The first filter represents the system receiver and has a 3 dB bandwidth of approximately 26.5625 GHz(line 37) The second filter represents the dispersion of the fiber and has a 3 dB bandwidth of approximately 18 GHz with
 Proposed Response Response Status W
 PROPOSED ACCEPT.

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Cl 167 SC 167.8.5 P54 L15 # 58
 Dudek, Mike Marvell
 Comment Type E Comment Status D Bucket
 The test patterns to be used for the test are in table 167-11 not 167-10
 SuggestedRemedy
 Change the reference to table 167-11
 Proposed Response Response Status W
 PROPOSED ACCEPT.

Cl 167 SC 167.8.5 P54 L25 # 61
 Dudek, Mike Marvell
 Comment Type T Comment Status D Bucket
 The combination of the O/e convertor and oscilloscope doesn't consist of two filters.
 SuggestedRemedy
 Replace "the combination of the O/E converter and the oscilloscope used to measure the optical waveform consists of two cascaded filters" with "the frequency response of the combination of the O/E converter and the oscilloscope used to measure the optical waveform is that of two cascaded filters". Also on line 34. Also on page 55 line 28 if a separate comment I've made is not accepted.
 Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.
 Implement with editorial license.
 Line 26 and 34 will read
 "... the frequency response of the combination of the O/E converter and the oscilloscope used to measure the optical waveform is that of two cascaded filters."

Cl 167 SC 167.8.6 P44 L28 # 9
 Le Cheminant, Greg Keysight Technologies
 Comment Type E Comment Status D Bucket
 If the comment submitted for 167.8.5 is implemented, 167.8.6 can be simplified using the proposed text change
 SuggestedRemedy
 replace the main paragraph of 167.8.6 with: The TECQ of each lane is measured using the methods specified for TDECQ in 167.8.5 except the second filter representing the dispersion of the fiber is not used.

Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.

The text will be changed to read

"The TECQ of each lane is measured using the methods specified for TDECQ in 167.8.5 except that the second filter representing the dispersion of the fiber is not used."

Cl 167 SC 167.8.6 P55 L28 # 59
 Dudek, Mike Marvell
 Comment Type E Comment Status D Bucket
 It would be possible to make this section significantly clearer for the implementer
 SuggestedRemedy
 Replace "The TECQ of each lane is measured using the methods specified for TDECQ in 167.8.5 except the combination of the O/E converter and the oscilloscope used to measure the optical waveform has a 3 dB bandwidth of approximately 26.5625 GHz with a fourth-order Bessel-Thomson response to at least 1.3 x 53.125 GHz. At frequencies above 1.3 x 53.125 GHz, the response should not exceed □24 dB. Compensation may be made for any deviation from an ideal fourth-order Bessel-Thomson" with either "The TECQ of each lane is measured using the methods specified for TDECQ in 167.8.5 except that instead of using the two cascaded filters just the first is used." or "The TECQ of each lane is measured using the methods specified for TDECQ in 167.8.5 except that the second filter is omitted of the two cascaded filters"

Proposed Response Response Status W
 PROPOSED ACCEPT IN PRINCIPLE.

See response to comment #8.

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Cl 167 SC 167.8.13 P46 L28 # 49

Nicholl, Gary Cisco

Comment Type TR Comment Status D Bucket

The first paragraph makes references to "121.8.10.1", "121.8.10.3" and "121.8.5.2" in 802.3-2018. These references do not exist in this specification. Perhaps the correct references should be "121.8.9.1", "121.8.9.3" and "121.8.9.2" in keeping with 802.3cd-2018, sub-clause 138.8.10 ?

SuggestedRemedy

Change "121.8.10.1" to "121.8.9.1"

Change "121.8.10.3" to "121.8.9.3"

Change "121.8.5.2" to "121.8.9.2"

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 167 SC 167.8.13 P46 L46 # 50

Nicholl, Gary Cisco

Comment Type TR Comment Status D Bucket

Need to add another exception to the list to make it clear that the values of over/under-shoot and transmitter power excursion of the stressed receiver conformance test signal are within the limits specified in Table 167-7.

SuggestedRemedy

Add an additional exception to the list to state that the the values of over/under-shoot and transmitter power excursion of the stressed receiver conformance test signal are within the limits specified in Table 167-7. See 802.3cu-2021, sub-clause 151.8.13 as an example.

Proposed Response Response Status W

PROPOSED ACCEPT.

The exception to be added in section 167.8.13 will read

"The values of overshoot/undershoot and transmitter power excursion of the stressed receiver conformance signal are within the limits specified in Table 167-7."

Cl 167 SC 167.10 P59 L33 # 62

Dudek, Mike Marvell

Comment Type E Comment Status D Bucket

Should be 200GBASE-VR2 on line 33 and 400GBASE-VR4 on line 34

SuggestedRemedy

Change them.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Change "200BASE-VR" to "200GBASE-VR2" on line 32 and "400GBASE-VR" to "400GBASE-VR4" on line 34.

Cl 167 SC 167.10.1 P49 L28 # 12

Tang, Yi Cisco Systems, Inc.

Comment Type T Comment Status D Bucket

The wavelength range in footnote "c" of table 167-13 is not in line with the center wavelength range defined in table 167-7-Transmit characteristics for the SRx variants.

SuggestedRemedy

remove wavelength range from footnote "c" of table 167-13

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Remove everything after the comma in footnote c.

Cl 167 SC 167.10.2.2.1 P50 L11 # 73

Ghiasi, Ali Ghiasi Quantum/Marvell

Comment Type TR Comment Status D Bucket

The Greater-less than and less than match symbols show up nu and Omega with Preview but its fine if viewed with Acrobat DC

SuggestedRemedy

Please correct so document is platform independent

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Use the symbols from the symbol page.