

IEEE 802.3db D2.0 100G, 200G, 400G Short Reach Fiber Task Force Initial Working Group ballot commen

Cl 167 SC Table 167-7 P51 L27 # 1

Swanson, Steven Corning Incorporated

Comment Type E Comment Status R

The TDECQ is the same for both variants.

SuggestedRemedy

Merge cells.

Response Response Status C

REJECT.

TDECQ (max) is shown in separate cells for VR and SR links because it is measured with different filters.

Cl 167 SC Table 167-7 P51 L29 # 2

Swanson, Steven Corning Incorporated

Comment Type E Comment Status A

The TECQ is the same for both variants.

SuggestedRemedy

Merge cells.

Response Response Status C

ACCEPT.

Cl 167 SC Table 167-7 P51 L43 # 3

Swanson, Steven Corning Incorporated

Comment Type ER Comment Status R

Encircled flux is a requirement for the transmitter.

SuggestedRemedy

Replace:
"If measured into type A1a.2 or type A1a.3, or A1a.4, 50 µm fiber, in accordance with IEC 61280-1-4."

with:
"When measured into type A1a.2 or type A1a.3, or A1a.4, 50 µm fiber, in accordance with IEC 61280-1-4."

Response Response Status C

REJECT.

No change to keep the text consistent with Clause 86, 95, 138 and 150.

Cl 167.1 SC Table 167-15 P62 L44 # 4

Swanson, Steven Corning Incorporated

Comment Type ER Comment Status A

Amendment 1 to IEC 60793-2-10 will be published before 802.3db. Therefore, there is no need for footnote "f."

SuggestedRemedy

Delete footnote "f;" the amendment to IEC 60793-2-10 just updates the specification to reflect improvements in the measurement of the chromatic dispersion of the OM3, OM4 and OM5 fibers - the specified values for zero dispersion wavelength and the chromatic dispersion slope are still conservative values for all three fiber types. OM3 and OM4 fibers compliant to previous versions of IEC 60793-2-10 are fully compliant to the revised specification and there is no need for footnote "f."

Response Response Status C

ACCEPT IN PRINCIPLE.

Revise footnote f according to response to comment #197.

See also response to comments #132 and 197

Cl 167 SC 167.10.2.2.2 P63 L6 # 5

Swanson, Steven Corning Incorporated

Comment Type TR Comment Status R

The maximum discrete reflectance is only specified for PC connectors; we need to include a specification for APC connectors

SuggestedRemedy

Replace:
"The maximum discrete reflectance shall be less than -20 dB."

with:
"The maximum discrete reflectance shall be less than -20 dB for PC connectors and -35 TBC dB for APC connectors"

Response Response Status C

REJECT.

This sentence specifies the maximum discrete reflection allowed and is not a discussion on which connectors are implemented.

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CI **FM** SC **FM** P1 L27 # 6
 Parsons, Earl CommScope
 Comment Type **E** Comment Status **A** Bucket
 802.3ct and 802.3cp have been added to D2.1 of 802.3dc
 SuggestedRemedy
 Include 802.3ct-2021 and 802.3cp in this list
 Response Response Status **C**
 ACCEPT.

CI **FM** SC **FM** P10 L36 # 9
 Parsons, Earl CommScope
 Comment Type **E** Comment Status **A** Bucket
 Changes were made in D2.1 of 802.3dc
 SuggestedRemedy
 Update this paragraph to match latest draft of 802.3dc
 Response Response Status **C**
 ACCEPT.

CI **FM** SC **FM** P1 L37 # 7
 Parsons, Earl CommScope
 Comment Type **E** Comment Status **A** Bucket
 Should say Working Group instead of Task Force. Do we need to say ballot instead of review?
 SuggestedRemedy
 Correct
 Response Response Status **C**
 ACCEPT IN PRINCIPLE.
 Correct front matter in future drafts for Working Group Review
 See comment #74

CI **FM** SC **FM** P12 L1 # 10
 Parsons, Earl CommScope
 Comment Type **E** Comment Status **A** Bucket
 Extra blank page
 SuggestedRemedy
 remove
 Response Response Status **C**
 ACCEPT.

CI **FM** SC **FM** P9 L17 # 8
 Parsons, Earl CommScope
 Comment Type **E** Comment Status **A** Bucket
 D2.1 of 802.3dc moved sentence starting with "The title was changed..." to the end of paragraph and added "and the ability to use an Ethertype to specify the MAC client protocol were "
 SuggestedRemedy
 Update this paragraph to match latest draft of 802.3dc
 Response Response Status **C**
 ACCEPT.

CI **1** SC **1.4.136a** P19 L1 # 11
 Parsons, Earl CommScope
 Comment Type **E** Comment Status **A** Bucket
 Extra blank page
 SuggestedRemedy
 remove
 Response Response Status **C**
 ACCEPT.

CI **78** SC **78.1.4** P25 L51 # 12
 Parsons, Earl CommScope
 Comment Type **E** Comment Status **A** Bucket
 Footnote shouldn't be underlined
 SuggestedRemedy
 remove underline
 Response Response Status **C**
 ACCEPT.

EE 802.3db D2.0 100G, 200G, 400G Short Reach Fiber Task Force Initial Working Group ballot commen

Cl 91 SC 91.7.4.2 P34 L5 # 19
 Parsons, Earl CommScope
 Comment Type E Comment Status R Bucket
 Change cross reference
 SuggestedRemedy
 Switch to external cross reference to Clause 91.5.3.3
 Response Response Status C
 REJECT.
 91.5.3.3 is an internal reference.

Cl 167 SC 167.1 P41 L16 # 23
 Parsons, Earl CommScope
 Comment Type E Comment Status A Bucket
 Change cross reference
 SuggestedRemedy
 Switch to internal cross reference to Clause 45
 Response Response Status C
 ACCEPT.

Cl 116 SC 116 P36 L32 # 20
 Parsons, Earl CommScope
 Comment Type E Comment Status A Bucket
 Fix cross reference
 SuggestedRemedy
 change "Clause 167" to "167"
 Response Response Status C
 ACCEPT.

Cl 167 SC 167.1 P42 L37 # 24
 Parsons, Earl CommScope
 Comment Type E Comment Status A Bucket
 Change cross reference
 SuggestedRemedy
 Switch to internal cross reference to Clause 81
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Change to internal cross reference Clause 80.

Cl 116 SC 116.1.4 P37 L18 # 21
 Parsons, Earl CommScope
 Comment Type E Comment Status A Bucket
 Fix cross reference
 SuggestedRemedy
 change "Clause 167" to "167"
 Response Response Status C
 ACCEPT.

Cl 167 SC 167.1 P42 L38 # 25
 Parsons, Earl CommScope
 Comment Type E Comment Status A Bucket
 Change cross reference
 SuggestedRemedy
 Switch to internal cross reference to 80.2
 Response Response Status C
 ACCEPT.

Cl 116 SC 116.1.4 P37 L23 # 22
 Parsons, Earl CommScope
 Comment Type E Comment Status A Bucket
 SR4.2 shouldn't be underlined
 SuggestedRemedy
 remove underline from 400GBASE-SR4.2
 Response Response Status C
 ACCEPT.

Cl 167 SC 167.1 P42 L39 # 26
 Parsons, Earl CommScope
 Comment Type E Comment Status A Bucket
 Change cross reference
 SuggestedRemedy
 Switch to internal cross reference to Clause 116
 Response Response Status C
 ACCEPT.

EE 802.3db D2.0 100G, 200G, 400G Short Reach Fiber Task Force Initial Working Group ballot commen

Cl 167 SC 167.1 P42 L39 # 27
 Parsons, Earl CommScope
 Comment Type E Comment Status A Bucket
 Change cross reference
 SuggestedRemedy
 Switch to internal cross reference to 116.2
 Response Response Status C
 ACCEPT.

Cl 167 SC 167.3.2.1 P45 L33 # 31
 Parsons, Earl CommScope
 Comment Type E Comment Status A Bucket
 Change cross reference
 SuggestedRemedy
 Switch to internal cross reference to Clause 116.5
 Response Response Status C
 ACCEPT.

Cl 167 SC 167.1 P42 L43 # 28
 Parsons, Earl CommScope
 Comment Type E Comment Status A Bucket
 Change cross reference
 SuggestedRemedy
 Switch to internal cross reference to Clause 78
 Response Response Status C
 ACCEPT.

Cl 167 SC 167.3.2.1 P45 L52 # 32
 Parsons, Earl CommScope
 Comment Type E Comment Status A Bucket
 Change cross reference
 SuggestedRemedy
 Switch to internal cross reference to Clause 45
 Response Response Status C
 ACCEPT.

Cl 167 SC 167.1 P42 L46 # 29
 Parsons, Earl CommScope
 Comment Type E Comment Status A Bucket
 Change cross reference
 SuggestedRemedy
 Switch to internal cross reference to Clause 1
 Response Response Status C
 ACCEPT.

Cl 167 SC 167.10.2.2 P62 L40 # 33
 Parsons, Earl CommScope
 Comment Type T Comment Status A
 Footnote e is too long
 SuggestedRemedy
 streamline the EMB information in this table and footnote
 Response Response Status C
 ACCEPT IN PRINCIPLE.

Cl 167 SC 167.1 P43 L13 # 30
 Parsons, Earl CommScope
 Comment Type E Comment Status A Bucket
 Diagram has some issues
 SuggestedRemedy
 Fix box alignment between GMII and PCS boxes
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Clean up these boxes

See response to comments #43 and 131.

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Cl 00 SC 0 P13 L2 # 34
 Ghiasi, Ali Ghiasi Quantum/Marvell
 Comment Type ER Comment Status A
 Page hyperlink is not working
 SuggestedRemedy
 Please fix the hyperlink to page#
 Response Response Status C
 ACCEPT.

Cl 00 SC 0 P0 L2 # 35
 Ghiasi, Ali Ghiasi Quantum/Marvell
 Comment Type ER Comment Status A
 Hyperlink to from sidebar table of content not working
 SuggestedRemedy
 Please sidebar hyperlink
 Response Response Status C
 ACCEPT.

Cl 167 SC 167.7.1 P52 L23 # 36
 Ghiasi, Ali Ghiasi Quantum/Marvell
 Comment Type TR Comment Status D
 Receiver reflectance of -12 combined with -20 dB results in much larger reflection than transmitter may tolerate, 2 connectors at 20 dB result in 14 dB RL, 3 connectors result in 10.7 dB, and 4 connectors in 8.4 dB.
 SuggestedRemedy
 One option is to increase cable plant RL to 26 dB but that require possibly replacing cable plant, simpler option is to require 20 dB RL for the receiver and keep the current 12 dB tolerance for the transmitter.
 Proposed Response Response Status Z
 REJECT.
 This comment was WITHDRAWN by the commenter.
 Reviewed presentation murty_3db_01_111121.pdf.

Cl 00 SC 0 P14 L14 # 37
 Ghiasi, Ali Ghiasi Quantum/Marvell
 Comment Type ER Comment Status A Bucket
 Incorrect title for 167, Physical Medium Dependent (PMD) sublayer and medium, type 100GBASE-VR1, 200GBASE-VR2, 23 400GBASE-VR4, 100GBASE-SR1, 200GBASE-SR2, and 400GBASE-SR441
 SuggestedRemedy
 Please repalce 441 with 4
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Framemaker issue.
 SR441 is actually SR4....41 where 41 is the page number. Will be fixed in the next draft.

Cl 167 SC 167 P41 L2 # 38
 Ghiasi, Ali Ghiasi Quantum/Marvell
 Comment Type ER Comment Status A
 The dash between the PMDs is missing
 SuggestedRemedy
 Please repalce 100GBASE VR1 with 100GBASE-VR1, etc. Why is the title in the table of content different that title on this page?
 Response Response Status C
 ACCEPT.

Cl 16 SC 16.7.1 P51 L24 # 39
 Ghiasi, Ali Ghiasi Quantum/Marvell
 Comment Type TR Comment Status A
 Still having problem to display symbols using Apple Preview
 SuggestedRemedy
 Please correct when there is a fix from Adobe
 Response Response Status C
 ACCEPT.

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CI 167 SC 167.7.2 P53 L44 # 40

Ghiasi, Ali Ghiasi Quantum/Marvell

Comment Type TR Comment Status R

It was shown that TDECQ with MMSE is accurate and reduce test time and associated test cost.

https://www.ieee802.org/3/db/public/September-09-September-29-2021/ghiasi_802.3db_01_092321.pdf

SuggestedRemedy

MMSE is representative of real receiver and a full grid search may produce results slightly better, as shown by in Ghiasi contribution there is excellent correlation for scope measurements. MMSE will reduce test time specillay given 802.3db reference receiver is 9 taps will longer to do full grid search and will increase test cost.

Response Response Status U

REJECT.

No specific proposal was presented. A straw poll did not show consensus for a change.

Straw Poll:

I support replacing the existing method of optimizing TDECQ with an MMSE approach

Yes 4

No 5

Abstain 9

Need more information 3

CI 16 SC 16.7.2 P52 L25 # 41

Ghiasi, Ali Ghiasi Quantum/Marvell

Comment Type TR Comment Status A

Still having problem to display symbols using Apple Preview

SuggestedRemedy

Please correct when there is a fix from Adobe

Response Response Status C

ACCEPT.

CI 167 SC 167.8.13.1 P59 L46 # 42

Maguire, Valerie The Siemon Company

Comment Type T Comment Status R Bucket

LB is identified as an upper frequency bound, but it's not clear what the units are

SuggestedRemedy

Replace, "LB = loop bandwidth; upper frequency bound..." with, "LB = loop bandwidth (MHz); upper frequency bound..."

Response Response Status C

REJECT.

The upper frequency bound is represented by the symbol LB and units are not required.

CI 167 SC 167.10.2.2 P62 L40 # 43

Lingle, Robert OFS

Comment Type T Comment Status A

Footnote e of Table 167-15 contains excessively detailed information about fiber bandwidths, well beyond what is necessary for the reader to understand the standard and implement it. This information in should be available in contributions presented to the TF during standards development, and that should be sufficient for someone wishes to delve into the rationale for the fiber emulation filter bandwidth values prescribed in Table 167-12.

SuggestedRemedy

Replace footnote e of Table 167-15 with "Effective modal bandwidth guidance is provided at all wavelengths in the 840 nm to 953 nm range in IEC 60793-2-10. OM5 multimode fiber has the same minimum bandwidth as OM4 at 850nm but is specified to have improved minimum bandwidth for wavelengths longer than 850nm."

Response Response Status C

ACCEPT IN PRINCIPLE.

See also comments #33 and 131

Change "Nominal fiber specification wavelength" row to match Table 150-14.

Add a row for EMB at 953 nm similar to Table 150-14.

Change footnote e to "Effective modal bandwidth guidance is provided at all wavelengths in the 840 nm to 953 nm range in IEC 60793-2-10."

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CI 167 SC 167.8.5 P57 L33 # 44

Lingle, Robert

OFS

Comment Type E Comment Status R

Editor's note states: "Use of minimum mean squared error optimization in place of optimization of TDECQ has been proposed." This topic has had a presentation in TF & discussion in TF and offline. Whatever the TF decides during comment resolution on D2.0, I think the Editor's Note has served its purpose (of stimulating consideration) and should be removed at this point.

SuggestedRemedy

Remove this editor's note

Response Response Status C

REJECT.

Leave the editors' note since MMSE is still under consideration. See comment #40.

CI FM SC FM P12 L1 # 45

Wienckowski, Natalie

General Motors

Comment Type E Comment Status A Bucket

blank page

SuggestedRemedy

Remove the blank page.
Also remove blank pages 19, 26,

Response Response Status C

ACCEPT.

CI 45 SC 45.2.1.6 P21 L27 # 46

Wienckowski, Natalie

General Motors

Comment Type E Comment Status A

an unchanged row is shown as new

SuggestedRemedy

Delete from this draft: 1 1 1 1 0 0 0 = 50GBASE-BR40-U

Response Response Status C

ACCEPT.

CI 45 SC 45.2.1.6 P21 L26 # 47

Wienckowski, Natalie

General Motors

Comment Type E Comment Status A Bucket

deleted text has to be shown in strikethrough

SuggestedRemedy

Add "reserved" in strikethrough
1 1 1 1 0 0 1 = "reserved" 100GBASE-VR1 PMA/PMD

Response Response Status C

ACCEPT IN PRINCIPLE.
See response to comment #78.

CI 45 SC 45.2.1.6 P21 L25 # 48

Wienckowski, Natalie

General Motors

Comment Type E Comment Status A Bucket

deleted text has to be shown in strikethrough

SuggestedRemedy

Add in strikethrough "1 1 1 1 0 1 x = reserved"

Response Response Status C

ACCEPT.

CI 00 SC 0 P L # 49

Wienckowski, Natalie

General Motors

Comment Type T Comment Status A Bucket

SuggestedRemedy

1 1 1 1 1 x x = reserved

Response Response Status C

ACCEPT IN PRINCIPLE.
See response to comment #78.

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Cl 45 SC 45.2.1.6 P21 L23 # 50
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status A Bucket
 deleted text has to be shown in strikethrough
 SuggestedRemedy
 Add in strikethrough "1 1 1 1 x x = reserved"
 Response Response Status C
 ACCEPT.

Cl 116 SC 116.4 P38 L14 # 51
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status A Bucket
 existing text doesn't match P8023_D2p1_ALL_SECTIONS.pdf
 SuggestedRemedy
 Change "8192" to "8 192"
 on L 21 change "4096" to "4 096".
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Make the change in these two rows to match 802.3dc.
 Change "8192" to "8 192" on line 14 and change "4096" to "4 096" on line 21.

Cl 167 SC 167.1 P42 L37 # 52
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status A Bucket
 Clause 80 is included in this draft
 SuggestedRemedy
 Change Clause 80 to "black".
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Change "Clause 80" to black text.

Cl 167 SC 167.1 P42 L38 # 53
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status A Bucket
 Clause 80.2 is included in this draft
 SuggestedRemedy
 Change 80.2 to "black".
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Change "80.2" to black text.

Cl 167 SC 167.1 P42 L39 # 54
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status A Bucket
 Clause 116 is included in this draft
 SuggestedRemedy
 Change Clause 116 to "black" and make it a hyperlink.
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Change "Clause 116" and "116.2" to black text.

Cl 167 SC 167.1 P42 L43 # 55
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status A Bucket
 Clause 78 is included in this draft
 SuggestedRemedy
 Change Clause 78 to "black".
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Change "Clause 78" to black text.

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Cl 167 SC 167.1 P42 L46 # 56
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status A Bucket
 Clause 1 is included in this draft
 SuggestedRemedy
 Change Clause 1 to "black".
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Change "Clause 1" to black text.

Cl 167 SC 167.3.2.1 P45 L33 # 59
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status A Bucket
 Clause 116.5 is included in this draft
 SuggestedRemedy
 Change 116.5 to "black" and make it a hyperlink.
 Response Response Status C
 ACCEPT.

Cl 167 SC 167.3.1 P45 L21 # 57
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status A Bucket
 Clause 80.4 is included in this draft
 SuggestedRemedy
 Change 80.4 to "black".
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Change "80.4" to black text.

Cl 167 SC 167.4 P45 L48 # 60
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status A Bucket
 Clause 116.5 is included in this draft
 SuggestedRemedy
 Change 116.5 to "black" and make it a hyperlink.
 Response Response Status C
 ACCEPT.

Cl 167 SC 167.3.1 P45 L21 # 58
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status A Bucket
 Hyperlink missing.
 SuggestedRemedy
 Make 116.4 a hyperlink.
 Response Response Status C
 ACCEPT.

Cl 167 SC 167.4 P45 L53 # 61
 Wienckowski, Natalie General Motors
 Comment Type E Comment Status A Bucket
 Clause 45 is included in this draft
 SuggestedRemedy
 Change Clause 45 to "black".
 Response Response Status C
 ACCEPT.

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Cl 167 SC 167.5.1 P46 L47 # 62

Wienckowski, Natalie General Motors
 Comment Type E Comment Status A Bucket

Remove random word "in".

SuggestedRemedy

Change: all transmitter measurements and tests defined in are made at TP2.
 To: all transmitter measurements and tests defined are made at TP2.

Response Response Status C

ACCEPT IN PRINCIPLE.
 A reference to 167.8 is missing which makes the sentence look incorrect. Insert the reference to 167.8 consistent with previous clauses.

Cl 167 SC 167.5.1 P47 L1 # 63

Wienckowski, Natalie General Motors
 Comment Type E Comment Status A Bucket

Remove random word "in".

SuggestedRemedy

Change: all receiver measurements and tests defined in are made at TP3.
 To: all receiver measurements and tests defined are made at TP3.

Response Response Status C

ACCEPT IN PRINCIPLE.
 A reference to 167.8 is missing which makes the sentence look incorrect. Insert the reference to 167.8 consistent with previous clauses.

Cl 167 SC 167.5.10 P49 L38 # 64

Wienckowski, Natalie General Motors
 Comment Type E Comment Status A Bucket

Clause 45.2.1.7.4 is included in this draft

SuggestedRemedy

Change 45.2.1.7.4 to "black" and make it a hyperlink.

Response Response Status C

ACCEPT IN PRINCIPLE.

Change "45.2.1.7.4" to black text and make it a hyperlink.

Cl 167 SC 167.5.11 P49 L46 # 65

Wienckowski, Natalie General Motors
 Comment Type E Comment Status A Bucket

Clause 45.2.1.7.5 is included in this draft

SuggestedRemedy

Change 45.2.1.7.5 to "black" and make it a hyperlink.

Response Response Status C

ACCEPT IN PRINCIPLE.

Change "45.2.1.7.5" to black text and make it a hyperlink.

Cl 167 SC 167.7 P50 L19 # 66

Wienckowski, Natalie General Motors
 Comment Type TR Comment Status A

There is no objective for a 30m link. The VR links are specified to be 50m everywhere else in this draft.

SuggestedRemedy

Delete row: 0.5 m to 30 m for OM3

Response Response Status C

ACCEPT IN PRINCIPLE.

Page 42, line 49
 Replace "up to at least 50 m." with
 "up to at least 30 m on OM3, 50 m on OM4, and 50 m on OM5 (see 167.7)."

Page 43, line 2
 Replace "up to at least 100 m." with
 "up to at least 60 m on OM3, 100 m on OM4, and 100 m on OM5 (see 167.7)."

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Cl 167 SC 167.7 P50 L24 # 67
 Wienckowski, Natalie General Motors
 Comment Type **TR** Comment Status **A**
 There is no objective for a 60m link. The SR links are specified to be 100m everywhere else in this draft.
SuggestedRemedy
 Delete row: 0.5 m to 60 m for OM3
 Response Response Status **C**
 ACCEPT IN PRINCIPLE.
 See response to comment #66.

Cl 167 SC 167.7.3 P53 L13 # 68
 Wienckowski, Natalie General Motors
 Comment Type **TR** Comment Status **A**
 There is no objective for a 30m link. The VR links are specified to be 50m everywhere else in this draft.
 There is no objective for a 60m link. The SR links are specified to be 100m everywhere else in this draft.
SuggestedRemedy
 Delete OM3 columns in Table 167-9
 Response Response Status **C**
 ACCEPT IN PRINCIPLE.
 See response to comment #66.

Cl 167 SC 167.9.1 P59 L54 # 69
 Wienckowski, Natalie General Motors
 Comment Type **TR** Comment Status **A**
 Should refer to Annex J. IEC 60950-1 is obsolete.
SuggestedRemedy
 Change: All equipment subject to this clause shall conform to IEC 60950-1.
 To: All equipment meeting this standard shall conform to the general safety requirements as specified in J.2.
 Response Response Status **U**
 ACCEPT IN PRINCIPLE.
 See also comments #95 and 177
 Change this sentence to "All equipment subject to this clause shall conform to J.2."

Cl 167 SC 167.10.1 P61 L35 # 70
 Wienckowski, Natalie General Motors
 Comment Type **TR** Comment Status **A**
 Remove reference to OM3 as it doesn't meet the project objectives.
SuggestedRemedy
 Delete: As OM4 and OM5 optical fiber meet the requirements for OM3, a channel compliant to the "OM3" column may use OM4 or OM5 optical fiber, or a combination of OM3, OM4, and OM5.
 Response Response Status **C**
 ACCEPT IN PRINCIPLE.
 See response to comment #66.

Cl 167 SC 167.10.2.2 P62 L7 # 71
 Wienckowski, Natalie General Motors
 Comment Type **TR** Comment Status **A**
 There is no objective for a 30m link. The VR links are specified to be 50m everywhere else in this draft.
 There is no objective for a 70m link (not consistent). The SR links are specified to be 100m everywhere else in this draft.
SuggestedRemedy
 Delete OM3 columns in Table 167-14
 Response Response Status **C**
 ACCEPT IN PRINCIPLE.
 See response to comment #66.

Cl 167 SC 167.10.2.2 P62 L25 # 72
 Wienckowski, Natalie General Motors
 Comment Type **TR** Comment Status **A**
 Remove reference to OM3 as it doesn't meet the project objectives.
SuggestedRemedy
 Delete OM3 columns in Table 167-15
 Response Response Status **C**
 ACCEPT IN PRINCIPLE.
 See response to comment #66.

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Cl **FM** SC **FM** P1 L35 # 73
 Zimmerman, George CME Consulting/ADI, APL Gp, Cisco, CommScope, M
 Comment Type **E** Comment Status **A** Bucket

It seems unlikely you will go to SA ballot after 802.3cw. 802.3cw is still at d1p2.

SuggestedRemedy

Check with WG leadership for order of amendments and align this, and amendment descriptions on page s 10 & 11

Response Response Status **C**

ACCEPT IN PRINCIPLE.
 Make changes according to appropriate amendment order after consulting with Working Group leadership.

Cl **FM** SC **FM** P1 L37 # 74
 Zimmerman, George CME Consulting/ADI, APL Gp, Cisco, CommScope, M
 Comment Type **E** Comment Status **A** Bucket

prepared for Task Force Review... this is for working group ballot

SuggestedRemedy

Change Task Force Review to Working Group Ballot.

Response Response Status **C**

ACCEPT IN PRINCIPLE.
 Change Task Force Review to Working Group ballot.

Cl **1** SC **1.4.39a** P18 L15 # 75
 Zimmerman, George CME Consulting/ADI, APL Gp, Cisco, CommScope, M
 Comment Type **E** Comment Status **A** Bucket

There is no "100GBASE-SR10 encoding" - it is just "100GBASE-SR10", AND, I think 100GBASE-SR1 should go before 100GBASE-SR10, which would be after "1.4.38 100GBASE-R encoding".

SuggestedRemedy

Change editing instruction to Insert the following new definition after 1.4.38 100GBASE-R encoding.
 Renumber 1.4.39a to 1.4.38a

Response Response Status **C**

ACCEPT.

Cl **1** SC **1.4.104a** P18 L32 # 76
 Zimmerman, George CME Consulting/ADI, APL Gp, Cisco, CommScope, M
 Comment Type **E** Comment Status **A** Bucket

Editing instruction says "new definitions" - I only see one.

SuggestedRemedy

Change "new definitions" to "new definition" in the editing instruction

Response Response Status **C**

ACCEPT.

Cl **30** SC **30.5.1.1.2** P20 L11 # 77
 Zimmerman, George CME Consulting/ADI, APL Gp, Cisco, CommScope, M
 Comment Type **T** Comment Status **A** Bucket

"ATTRIBUTE" is missing on line before APPROPRIATE SYNTAX:. Also, ATTRIBUTE should be at the indent occupied by APPROPRIATE SYNTAX, which would cause APPROPRIATE SYNTAX to line up with the indent of the added MAU types.

SuggestedRemedy

Insert ATTRIBUTE on new line before APPROPRIATE SYNTAX, with style and alignment as described.

Response Response Status **C**

ACCEPT IN PRINCIPLE.
 Add "ATTRIBUTE" and indent "APPROPRIATE SYNTAX" correctly.

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CI 45 SC 45.2.1.6 P21 L10 # 78
 Zimmerman, George CME Consulting/ADI, APL Gp, Cisco, CommScope, M
 Comment Type E Comment Status A Bucket

"Change the indicated reserved rows" - there are no rows indicated to be changed.
 Further, Table 45-7 has 3 reserved rows. I suspect the one to be changed is the top-most, but it looks like the change needs to be more complicated. The reserved rows are:

1 1 1 x x x = reserved
 1 1 0 1 x x x = reserved
 1 1 0 0 1 x x = reserved

but the added rows are indicated purely as inserts, creating double-definitions:

...
 1 1 1 1 1 1 = reserved (with values 1111110 through 1111000 defined)

Also, I cannot find any reference to 50GBASE-BR40-U in the draft, or in another amendment - so I'm guessing this is an error or in an amendment coming later.

SuggestedRemedy

Change editing instruction to "Change the description of bits 1.7.6:0 in Table 45-7, as shown (unchanged rows not shown):
 show in description, as below, indicates start of underline, <END UL> end of underline, <SO> and <END SO> start and end of strikeout, and text outside of that is just plain to show where the new text lies in the draft

"6 5 4 3 2 1 0
 1 1 1 1 1 1 = reserved
 1 1 1 1 1 1 0 = 400GBASE-SR4 PMA/PMD
 1 1 1 1 1 0 1 = 400GBASE-VR4 PMA/PMD
 1 1 1 1 1 0 0 = 200GBASE-SR4 PMA/PMD
 1 1 1 1 0 1 1 = 200GBASE-VR4 PMA/PMD
 1 1 1 1 0 1 0 = 100GBASE-SR4 PMA/PMD
 1 1 1 1 0 0 1 = 100GBASE-VR4 PMA/PMD <END UL>
 <SO> 1 1 1 x x x x = reserved <END SO>
 1 1 1 1 0 0 0 = reserved
 1 1 1 0 x x x = reserved <end UL>
 1 1 0 1 x x x = reserved
"

Response Response Status C

ACCEPT IN PRINCIPLE.

Change the description of bits 1.7.6:0 in Table 45-7 as shown (unchanged rows not shown):

"6 5 4 3 2 1 0
 1 1 1 1 1 1 = reserved
 1 1 1 1 1 1 0 = 400GBASE-SR4 PMA/PMD
 1 1 1 1 1 0 1 = 400GBASE-VR4 PMA/PMD
 1 1 1 1 1 0 0 = 200GBASE-SR4 PMA/PMD
 1 1 1 1 0 1 1 = 200GBASE-VR4 PMA/PMD
 1 1 1 1 0 1 0 = 100GBASE-SR4 PMA/PMD

1 1 1 1 0 0 1 = 100GBASE-VR4 PMA/PMD <END UL>
 <SO> 1 1 1 1 1 x x = reserved
 1 1 1 1 0 1 x = reserved
 1 1 1 1 0 0 1 = reserved <END SO>
"
 stands for underline and <SO> for strikeout.
 50GBASE-BR40-U comes from 802.3cp and was added in 802.3dc D2.1.

CI 45 SC 45.2.1.7.4 P21 L43 # 79
 Zimmerman, George CME Consulting/ADI, APL Gp, Cisco, CommScope, M
 Comment Type E Comment Status A Bucket

167.5.10 should be an active cross reference, same comment for 167.5.11 in Table 45-10 and 167.5.7 in Table 45-12.

SuggestedRemedy

make locations in Tables 45-9, 45-10 and 45-12 active cross references

Response Response Status C

ACCEPT.

CI 45 SC 45.2.1.2.2 P23 L9 # 80
 Zimmerman, George CME Consulting/ADI, APL Gp, Cisco, CommScope, M
 Comment Type E Comment Status A Bucket

"(as modified by IEEE Std 802.3cn-2019)" - if this is an amendment to the revision (802.3-2022), then modification by 802.3cn-2019 is not relevant or necessary.

SuggestedRemedy

Delete "(as modified by IEEE Std 8092.3cn-2019)" in editing instruction

Response Response Status C

ACCEPT.

CI 45 SC 45.2.1.2.2 P23 L19 # 81
 Zimmerman, George CME Consulting/ADI, APL Gp, Cisco, CommScope, M
 Comment Type E Comment Status A Bucket

There is only one reserved bit - no need for a range

SuggestedRemedy

Change edit just to strike out ":12" (deleting the inserted 14, and striking out the colon as well)

Response Response Status C

ACCEPT IN PRINCIPLE.

Change edit to strike out ":11".
 P802.3dc D2.1 shows 1.24.14:11 unused
 and ":11" is taken by 400GBASE-ZR.

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Cl 45 SC 45.2.1.24 P23 L49 # 82
 Zimmerman, George CME Consulting/ADI, APL Gp, Cisco, CommScope, M
 Comment Type E Comment Status A Bucket
 "insert the following new subclauses (Table 45.2.1.24.7 and Table 45.2.1.24.8) after 45.2.1.24.4" - these are subclauses, not tables, use correct cross-reference formatting so it just says (45.2.1.24.7 and 45.2.1.24.8) - also, put editing instruction AFTER Table 45-27.
 SuggestedRemedy
 See comment
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 See response to comment #230.

Cl 80 SC 80.1.3 P27 L9 # 83
 Zimmerman, George CME Consulting/ADI, APL Gp, Cisco, CommScope, M
 Comment Type E Comment Status A Bucket
 It appears "Clause 140" an external reference is somehow an active cross reference. No idea where it points...
 SuggestedRemedy
 See comment, make it not active.
 Response Response Status C
 ACCEPT.

Cl 80 SC 80.1.1 P28 L1 # 84
 Zimmerman, George CME Consulting/ADI, APL Gp, Cisco, CommScope, M
 Comment Type E Comment Status A Bucket
 80.1.1 Should be 80.1.5
 SuggestedRemedy
 Change 80.1.1 to 80.1.5
 Response Response Status C
 ACCEPT.

Cl 80 SC 80.1.1 P28 L13 # 85
 Zimmerman, George CME Consulting/ADI, APL Gp, Cisco, CommScope, M
 Comment Type E Comment Status A Bucket
 "Clause 167" column header is different than the others which just have numbers
 SuggestedRemedy
 Change "Clause 167" to "167" (as active xref)
 Response Response Status C
 ACCEPT.

Cl 116 SC 116.1.4 P36 L34 # 86
 Zimmerman, George CME Consulting/ADI, APL Gp, Cisco, CommScope, M
 Comment Type E Comment Status A Bucket
 "Clause 167" column header is different than the others which just have numbers
 SuggestedRemedy
 Change "Clause 167" to "167" (as active xref)
 Response Response Status C
 ACCEPT.

Cl 116 SC 116.1.4 P37 L20 # 87
 Zimmerman, George CME Consulting/ADI, APL Gp, Cisco, CommScope, M
 Comment Type E Comment Status A Bucket
 "Clause 167" column header is different than the others which just have numbers
 SuggestedRemedy
 Change "Clause 167" to "167" (as active xref) (2 places)
 Response Response Status C
 ACCEPT.

Cl 167 SC 167 P41 L1 # 88
 Zimmerman, George CME Consulting/ADI, APL Gp, Cisco, CommScope, M
 Comment Type E Comment Status A Bucket
 Missing editing instruction
 SuggestedRemedy
 Add editing instruction "Insert clause 167 after clause 166 as shown:"
 Response Response Status C
 ACCEPT.

EE 802.3db D2.0 100G, 200G, 400G Short Reach Fiber Task Force Initial Working Group ballot commen

Cl 167 SC 167.1 P41 L16 # 89
 Zimmerman, George CME Consulting/ADI, APL Gp, Cisco, CommScope, M
 Comment Type E Comment Status A Bucket
 Clause 45 is marked external, even though it is an active cross reference and in the draft
 SuggestedRemedy
 Make clause 45 black and not marked external
 Response Response Status C
 ACCEPT.

Cl 167 SC 167.1 P41 L49 # 90
 Zimmerman, George CME Consulting/ADI, APL Gp, Cisco, CommScope, M
 Comment Type E Comment Status A Bucket
 Clause 78 is marked external, even though it is an active cross reference and in the draft - also on page 42 in Table 167-2.
 SuggestedRemedy
 Make clause 78 black and not marked external (2 places)
 Response Response Status C
 ACCEPT.

Cl 167 SC 167.5.10 P49 L38 # 91
 Zimmerman, George CME Consulting/ADI, APL Gp, Cisco, CommScope, M
 Comment Type E Comment Status A Bucket
 45.2.1.7.4 is marked external even though it is in the draft
 SuggestedRemedy
 make 45.2.1.7.4 an active cross reference, not external, and black
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Change "45.2.1.7.4" to black text.

Cl 167 SC 167.5.11 P49 L46 # 92
 Zimmerman, George CME Consulting/ADI, APL Gp, Cisco, CommScope, M
 Comment Type E Comment Status A Bucket
 45.2.1.7.5 is marked external even though it is in the draft
 SuggestedRemedy
 make 45.2.1.7.5 an active cross reference, not external, and black
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Change "45.2.1.7.5" to black text.

Cl 167 SC 167.8.5 P56 L44 # 93
 Zimmerman, George CME Consulting/ADI, APL Gp, Cisco, CommScope, M
 Comment Type TR Comment Status A
 Editor's note should not be indented as a list item - also, this is a note about a proposed substitution. The editor's note should be removed during working group ballot, prior to SA ballot.
 SuggestedRemedy
 Remove editor's note.
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Indent on the editors' note will be removed.
 The note will say "to be removed prior to SA ballot" instead of "to be removed prior to publication".
 The note will remain because MMSE is still under consideration. See response to comment #40.

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Cl 167 SC 167.8.5 P56 L47 # 94

Zimmerman, George CME Consulting/ADI, APL Gp, Cisco, CommScope, M

Comment Type E Comment Status A Bucket

Table 167-12 should be on the same page - the headers are on one page and the body on the next. It's a short table

SuggestedRemedy

Fix page alignment so the table all goes on one page.

Response Response Status C

ACCEPT IN PRINCIPLE.

Try getting Table 167-12 on one page.

Cl 167 SC 167.9.1 P59 L54 # 95

Zimmerman, George CME Consulting/ADI, APL Gp, Cisco, CommScope, M

Comment Type TR Comment Status A

IEC 60950-1 has been withdrawn. See IEEE 802.3-202x Annex J.

SuggestedRemedy

replace "conform with IEC 60950-1" with "shall conform to J.2"

Response Response Status C

ACCEPT IN PRINCIPLE.

See also comments #69 and 177

Change this sentence to "All equipment subject to this clause shall conform to J.2."

Cl 167 SC 167.10.2.2 P62 L8 # 96

Ferretti, Vince Corning

Comment Type TR Comment Status A

Table 167-14—Fiber optic cabling (channel) characteristics incorrectly calls out operating distance for OM3 fiber for SR lengths as 70 m

SuggestedRemedy

Change OM3 operating distance to 60 m to match operating distances in other sub-clauses

Response Response Status C

ACCEPT IN PRINCIPLE.

Change 70 m to 60 m to match OM3 operating distance elsewhere in Clause 167.

Cl 167 SC 167.8.11 P58 L42 # 97

Nicholl, Gary Cisco Systems, Inc.

Comment Type TR Comment Status A

The spec requires 53.125GHz integration bandwidth for RIN, which is significantly higher than the receiver bandwidth. The high integration bandwidth is not needed and can make measurements expensive.

SuggestedRemedy

b) The upper -3 dB limit of the measurement apparatus is to be approximately 26.5625 GHz

Response Response Status C

ACCEPT IN PRINCIPLE.

Measure RIN_OMA using a low pass filter with a 4th order Bessel-Thomson response and a -3 dB bandwidth of 26.5625 GHz, and change RIN_OMA (max) to -132 dB/Hz.

Cl 91 SC 91.5.3.3 P30 L12 # 98

Marris, Arthur Cadence Design Systems

Comment Type E Comment Status A Bucket

Change "100GBASE-DR PHY" to "100GBASE-DR" and the word "is" is missing on line 33

SuggestedRemedy

Change "100GBASE-DR PHY" to "100GBASE-DR" on lines 12, 22 and 34
Also change "When the RS-FEC sublayer used" to "When the RS-FEC sublayer is used"

Response Response Status C

ACCEPT.

Cl 91 SC 91.6.3 P31 L4 # 99

Marris, Arthur Cadence Design Systems

Comment Type E Comment Status A Bucket

Change "100GBASE-DR PMDs" to "100GBASE-DR"

SuggestedRemedy

Change "100GBASE-DR PMDs" to "100GBASE-DR"

Response Response Status C

ACCEPT.

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Cl 45 SC 45.2.1.21 P22 L37 # 100
 Lusted, Kent Intel Corporation
 Comment Type ER Comment Status A Bucket
 The 200G PMA/PMD extended ability bits 1.23.7 and 1.23.8 collide with P802.3ck
 SuggestedRemedy
 Move the bits to another location in the register
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 See response to comment #239.

Cl 45 SC 45.2.1.24 P24 L7 # 101
 Lusted, Kent Intel Corporation
 Comment Type ER Comment Status A Bucket
 The 40G/100G PMA/PMD extended ability register 2 bit 1.26.0 and 1.26.1 collide with P802.3ck
 SuggestedRemedy
 Move the bits to another location in the register
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 See response to comment #240.

Cl 167 SC 167.1 P41 L46 # 102
 Lusted, Kent Intel Corporation
 Comment Type TR Comment Status A
 Table 167-1 references Annex 120F and Annex 120G for the 100GAUI1 C2C and C2M. However, the ammendment order decree from David Law has 3ck publishing after 3db
 SuggestedRemedy
 Remove references to Annex 120F and Annex 120G in the document
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Remove references to 802.3ck
 Remove rows for 120F and 120G from this table and Table 167-2

Cl FM SC FM P10 L29 # 103
 Ran, Adeo Cisco
 Comment Type E Comment Status A Bucket
 The paragraph starting on line 29 should be part of the previous paragraph (Section Eight).
 Also, on line 130, a space is missing after "Clause 125".
 SuggestedRemedy
 Delete the paragraph break, insert space between "Clause 125" and "includes".
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Correct this paragraph to match latest draft of 802.3dc.

Remove the paragraph break.
 Insert space between "Clause 125" and "includes".
 Delete "Clause 125 and Clause 126 include general information on 2.5 Gb/s and 5 Gb/s operation as well as 2.5 Gb/s and 5 Gb/s Physical Layer specifications."
 Paragraph will read "Section Eight—Includes Clause 116 through Clause 140 and Annex 119A through Annex 136D. Clause 116 through Clause 124 and associated annexes include general information on 200 Gb/s and 400 Gb/s operation as well as 200 Gb/s and 400 Gb/s Physical Layer specifications. Clause 125 includes general information on 2.5 Gb/s and 5 Gb/s operation. Clause 126 through Clause 130 and associated annexes include 2.5 Gb/s and 5 Gb/s Physical Layer specifications. Clause 131 provides general information on 50 Gb/s operation. Clause 132 through Clause 140 and associated annexes include 50 Gb/s Physical Layer specifications and additional 100 Gb/s, 200 Gb/s, and 400 Gb/s Physical Layer specifications."

Cl 00 SC 0 P12 L1 # 104
 Ran, Adeo Cisco
 Comment Type E Comment Status A Bucket
 There are several blank pages in the draft (apparently at the end of clauses).
 SuggestedRemedy
 Delete the empty pages.
 Response Response Status C
 ACCEPT.

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Cl 1 SC 1.3 P18 L4 # 105
 Ran, Adee Cisco
 Comment Type E Comment Status R Bucket
 Nothing is inserted in this subclause.
 SuggestedRemedy
 Delete the subclause and editorial instruction, unless the next draft add some content.
 Response Response Status C
 REJECT.
 A new item will be added in 1.3 in D2.1.
 See comment #132.

Cl 00 SC 0 P18 L14 # 106
 Ran, Adee Cisco
 Comment Type E Comment Status A Bucket
 Many editorial instructions in this draft appear as bookmarks in the bookmark pane, making navigation inconvenient.
 SuggestedRemedy
 Apply paragraph formatting for all editorial instructions to avoid them being treated as bookmarks.
 Response Response Status C
 ACCEPT.

Cl 45 SC 45.2.1.6 P21 L26 # 107
 Ran, Adee Cisco
 Comment Type E Comment Status A Bucket
 The line for 50GBASE-BR40-U appears in the base document (802.3dc D2.1) so should not be underlined.
 SuggestedRemedy
 Remove the underline.
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 50GBASE-BR40-U will be removed (unchanged rows not shown).
 See comments #46 and #78.

Cl 45 SC 45.2.1.21 P22 L37 # 108
 Ran, Adee Cisco
 Comment Type TR Comment Status A
 Bits 7 and 8 of register 1.23 have been assigned by 802.3ck (since D1.0, December 2019) and are not available.
 SuggestedRemedy
 Keep bits 8:7 reserved, and assign bits 10:9 instead (or others based on availability).
 Change 45.2.1.21.9 and 45.2.1.21.10 accordingly.
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 See response to comments #225 and #239.

Cl 45 SC 45.2.1.22 P23 L9 # 109
 Ran, Adee Cisco
 Comment Type E Comment Status A Bucket
 This draft is an amendment of 802.3dc-202x, so modifications by 802.3cn-2019 are already included.
 SuggestedRemedy
 Fix the editorial instruction.
 Response Response Status C
 ACCEPT.

Cl 45 SC 45.2.1.22 P23 L9 # 110
 Ran, Adee Cisco
 Comment Type TR Comment Status A
 In D2.1 of 802.3dc (as in 802.3cn-2019) bits 14:11 are reserved, not just 14:12, so the new assignments should be bits 12:11, to avoid a single bit gap.
 SuggestedRemedy
 Assign bits 12:11.
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Bit 11 is reserved for 400GBASE-ZR.
 See response to comments #81 and #227 for bit 12.

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Cl 45 SC 45.2.1.24 P23 L47 # 111
 Ran, Adeo Cisco
 Comment Type TR Comment Status A
 Bits 0 and 1 of register 1.26 have been assigned by 802.3ck (since D1.0, December 2019) and are not available.
 SuggestedRemedy
 Keep bits 1:0 reserved, and assign bits 11:10 instead (or others based on availability).
 Change 45.2.1.24.7 and 45.2.1.24.8 accordingly.
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 See response to comments #230 and #240 for the register assignments and subclause numbers.

Cl 78 SC 78.1.4 P25 L8 # 112
 Ran, Adeo Cisco
 Comment Type E Comment Status A Bucket
 802.3cw is not expected to be published before 802.3db, so its modifications should not be included here.
 I do not see anything in the table that does not match 802.3dc, so this seems to be only an error in the editorial instruction.
 Also applies to two instances in 116.1.3 (P35 L40 and P38 L27).
 SuggestedRemedy
 Fix the editorial instructions.
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Remove 802.3cw from editing instructions.
 Remove "(as modified by IEEE Std 802.3cw-202x)" from editing instructions.

Cl 00 SC 0 P25 L20 # 113
 Ran, Adeo Cisco
 Comment Type E Comment Status A Bucket
 Several cross-references to content that is not included in this draft are formatted in green, but unlike other amendments, they are active (and broken) links.
 Additionally, many cross-references to content in amended clauses that are included in this draft (e.g. clauses 82 and 91) are also formatted in green (and some are broken links).
 SuggestedRemedy
 Make all external cross-references plain text in green, and all internal cross-references active links in black.
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Ensure that all external cross references are green and not active.
 Ensure that all internal cross references are black and active, working links.

Cl 91 SC 91.5.3.3 P30 L18 # 114
 Ran, Adeo Cisco
 Comment Type E Comment Status A Bucket
 The amended text of this paragraphs is unclear. The normative requirement of the paragraph is missing.
 The current content is insufficient for readers without going to the base document to see what the "shall" is about.
 SuggestedRemedy
 Include the third paragraph in its entirety.
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Include entire paragraph and not just this sentence.
 "When used to form a 100GBASE-CR4, 100GBASE-KR4, or 100GBASE-SR4 PHY, the RS-FEC sublayer shall be capable of correcting any combination of up to t=7 symbol errors in a codeword. When used to form a 100GBASE-KP4, 100GBASE-CR2, 100GBASE-KR2, 100GBASE-DR1, 100GBASE-SR2, 100GBASE-SR1, 100GBASE-DR, 100GBASE-FR1, or 100GBASE-LR1 PHY, the RS-FEC sublayer shall be capable of correcting any combination of up to t=15 symbol errors in a codeword. The RS-FEC sublayer shall also be capable of indicating when an errored codeword was not corrected. The probability that the decoder fails to indicate a codeword with t+1 errors as uncorrected is not expected to exceed 10⁻⁶. This limit is also expected to apply for t+2 errors, t+3 errors, and so on."
 Additions to the base text will be underlined as in the current draft.

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Cl 116 SC 116.1.3 P37 L10 # 115

Ran, Adee Cisco

Comment Type ER Comment Status A Bucket

802.3cw is not expected to be published before 802.3db, so its modifications (400GBASE-ZR) should not be included here.

SuggestedRemedy

Fix the editorial instruction, and remove the columns and rows for 400GBASE-ZR.

Response Response Status C

ACCEPT IN PRINCIPLE.
Remove these references to 802.3cw.

Remove "(as modified by IEEE Std 802.3cw-202x)".

Remove column and row for 400GBASE-ZR.

Cl 116 SC 116.4 P38 L38 # 116

Ran, Adee Cisco

Comment Type E Comment Status A Bucket

Inserted content is not underlined.

SuggestedRemedy

Apply underline formatting for the two inserted rows.

Response Response Status C

ACCEPT.

Cl 167 SC 167.1 P41 L46 # 117

Ran, Adee Cisco

Comment Type ER Comment Status A Bucket

802.3ck is scheduled to be published after 802.3db, and this draft is an amendment of 802.3-202x with amendments not including 802.3ck. Therefore clauses 120F and 120G are not part of the amended standard and are undefined.

In addition, the nomenclature tables in clauses 80 and 116 do not include annexes 120F and 120G.

802.3ck should amend clause 167 to point to these annexes instead.

If 802.3ck is published first, several changes will be needed in 802.3db, not just these two tables.

SuggestedRemedy

Delete the rows for annexes 120F and 120G from Table 167-1 and Table 167-2, and delete the editor's notes referring to them.

Response Response Status C

ACCEPT IN PRINCIPLE.
Remove these references to 802.3ck

Remove rows for 120F and 120 in Table 167-1 and Table 167-2. Remove the editors' notes below each table.

Cl 00 SC 0 P41 L51 # 118

Ran, Adee Cisco

Comment Type ER Comment Status A Bucket

Per 1.1.6 Word usage, "must" cannot be used when stating mandatory requirements.

Multiple instances of the word "must" appear in text inherited from earlier clauses, on pages 41, 43, 45 (twice), 48, 55, and 56. These earlier clauses have been edited in 802.3dc D2.1 to eliminate usage of this word.

SuggestedRemedy

Change the sentences that include "must" based on similar text in 802.3dc D2.1.

Response Response Status C

ACCEPT IN PRINCIPLE.
Implement with editorial license.

See also responses to comments #232, 233, 234, 235, 236.

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Cl 167 SC 167.1 P42 L46 # 119

Ran, Adee Cisco

Comment Type E Comment Status A Bucket

The sentence "Further relevant information may be found in Clause 1 (terminology and conventions, references, definitions and abbreviations) and Annex A (bibliography, referenced as [B1], [B2], etc.)." Does not belong in this paragraph.

SuggestedRemedy

Move the quoted sentence to a separate paragraph at the end of the subclause.

Response Response Status C

ACCEPT IN PRINCIPLE.

Move this sentence to a new paragraph at the end of Clause 167.1 to match previous clauses, for example, Clause 150.

Cl 167 SC 167.2 P44 L7 # 120

Ran, Adee Cisco

Comment Type E Comment Status A Bucket

It seems that there is an unnecessary line break after "VR2,", maybe because the paragraph is not justified.

SuggestedRemedy

Apply paragraph formatting to justify the paragraph (and others if necessary). Delete the line break if it exists.

Response Response Status C

ACCEPT.

Cl 167 SC 167.5.2 P47 L36 # 121

Ran, Adee Cisco

Comment Type T Comment Status A Bucket

The transmit function converts symbol streams to optical signals, not signal streams to optical signal streams.

This text seems to originate in clause 138, which has similar incorrect language (and should be fixed in maintenance). The precedence in most other clauses (e.g. 121.5.2, 122.5.2, 123.5.2, 124.5.2, 151.5.2) should be followed instead.

Similarly for the receive function, in the other direction, in 167.5.3.

SuggestedRemedy

In 167.5.2, change from
"The PMD Transmit function shall convert the one, two, or four signal streams requested by the PMD service interface messages PMD:IS_UNITDATA_i.request into one, two, or four separate optical signal streams"
to

"The PMD Transmit function shall convert the one, two, or four symbol streams requested by the PMD service interface messages PMD:IS_UNITDATA_i.request into one, two, or four separate optical signals".

In 167.5.3, change from
"The PMD Receive function shall convert the one, two, or four parallel optical signal streams received from the MDI into separate symbol streams"
to

"The PMD Receive function shall convert the one, two, or four parallel optical signals received from the MDI into one, two, or four separate symbol streams".

Response Response Status C

ACCEPT IN PRINCIPLE.

Change "optical signal stream" to "optical signal" elsewhere in 167.5.2.

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Cl 167 SC 167.5.2 P47 L43 # 122

Ran, Adeo Cisco

Comment Type T Comment Status A Bucket

"tx_symbols zero, one, two, and three" - The sentence refers to values of tx_symbol, the argument of PMD:IS_UNITDATA_i.request. "tx_symbols" is undefined.

This text seems to originate in clause 138, which has similar incorrect language (and should be fixed in maintenance). The precedence in most other clauses (e.g. 121.5.2, 122.5.2, 123.5.2, 124.5.2) should be followed instead.

Similarly for the receive function, with rx_symbols, in 167.5.3.

SuggestedRemedy

Change "tx_symbols zero, one, two, and three" to "tx_symbol values zero, one, two, and three".

Similarly for rx_symbols in 167.5.3.

Response Response Status C

ACCEPT.

Cl 167 SC 167.5.5 P48 L42 # 123

Ran, Adeo Cisco

Comment Type E Comment Status R Bucket

The sentence "Various implementations of the Signal Detect function are permitted by this standard" seems irrelevant here, and is probably repeated from the previous subclause.

SuggestedRemedy

Delete the quoted sentence.

Response Response Status C

REJECT.

This sentence comes from previous clauses. The commenter has not provided a reason to remove it.

Cl 167 SC 167.6 P50 L1 # 124

Ran, Adeo Cisco

Comment Type T Comment Status A Bucket

There is no RS-FEC sublayer in 200GBASE-R and 400GBASE-R. The lane reordering is a PCS function in these PHYs.

SuggestedRemedy

Change "the RS-FEC sublayer is" to "the PCS and the RS-FEC sublayer are".

Response Response Status C

ACCEPT.

Cl 167 SC 167.8 P54 L3 # 125

Ran, Adeo Cisco

Comment Type T Comment Status A

The normative requirements from PMDs are stated in 167.7.1 and 167.7.2 with "shall" statements that encompass all the requirements, and refer to 167.8 for definitions.

There is no need to have additional "shall" statements for each of the definitions in 167.8 and its subclauses. These are not additional requirements but definitions of the requirements stated above.

Specifically, the "shall" in 167.8 is not a requirement but a definition of the test conditions. Also, the references to 121.8.9.1, 121.8.9.2, and 121.8.9.3 for SRS are incorrect.

The suggested remedy is to rephrase text in some of the subclauses of 167.8 as definitions, and to delete statements in other subclauses which are repetitions of the existing normative requirement.

(The commenter is aware that the text in question is based on similar text found in many clauses of the base document; However, each clause is independent and a project may and should divert from copied text if it improves the standard. Changing the base document to include these improvements is a separate activity).

SuggestedRemedy

In 167.8, change "shall be made" to "is made".

In 167.8.2, change "shall be within the range given in Table 167-7 if measured per IEC 61280-1-3" to "measurement method is defined in IEC 61280-1-3".

In 167.8.3, change "shall be within the limits given in Table 167-7 if measured using the methods given in IEC 61280-1-1" to "measurement method is defined in IEC 61280-1-1".

In 167.8.4, change "The OMAouter of each lane shall be within the limits given in Table 167-7 if measured as defined in 121.8.4." to "The OMAouter measurement method is defined in 121.8.4."

In 167.8.5, change "The TDECQ of each lane shall be within the limits given in Table 167-7 if measured using the methods specified in 121.8.5" to "The TDECQ measurement method is specified in 121.8.5".

In 167.8.6, delete "The TECQ of each lane shall be within the limits given in Table 167-7 if measured using a test pattern specified for TECQ in Table 167-11."

In 167.8.7, delete "The overshoot/undershoot of each lane shall be within the limits given in Table 167-7 if measured using a test pattern specified for overshoot/undershoot in Table 167-11."

In 167.8.8, delete "The transmitter power excursion of each lane shall be within the limits given in Table 167-7 if measured using a test pattern specified for transmitter power

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excursion in Table 167-11."

In 167.8.9, change "The extinction ratio of each lane shall be within the limits given in Table 167-7 if measured using the methods specified in 121.8.6" to "The extinction ratio measurement method is as specified in 121.8.6".

In 167.8.10, delete "The transmitter transition time of each lane shall be within the limits given in Table 167-7 if measured using a test pattern specified for transmitter transition time in Table 167-11."

In 167.8.11, change "RIN shall be as defined by the measurement methodology of 52.9.6" to "The RIN12OMA measurement method is as specified in 52.9.6".

In 167.8.12, delete "The receiver sensitivity (OMAouter) of each lane shall be within the limits given in Table 167-8 if measured using a test pattern specified for receiver sensitivity in Table 167-11."

In 167.8.13, change "Stressed receiver sensitivity shall be within the limits given in Table 167-8 if measured using the methodology defined in 121.8.9.1 and 121.8.9.3, with the conformance test signal at TP3 as described in 121.8.9.2" to "The stressed receiver sensitivity measurement method is as defined in 121.8.10".

Delete the PICS table in 167.11.4.4.

Response **Response Status C**
ACCEPT IN PRINCIPLE.

The proposed changes to wording should be taken up with maintenance.

Correct cross references to 121.8.10.1, 121.8.10.2 and 121.8.10.3 in 167.8.13.

Cl 167 SC 167.8.1.1 P55 L26 # 126

Ran, Adeo **Comment Type E Comment Status A**
Cisco

This subclause deals with "Multi-lane testing considerations", mostly related to receiver testing. Its hierarchical placement under 167.8.1 "Test patterns for optical parameters" is incorrect.

SuggestedRemedy
Change the hierarchy to make this a level 2 subclause (167.8.2).

Response **Response Status C**
ACCEPT.

Cl 167 SC 167.8.1.1 P55 L42 # 127

Ran, Adeo **Comment Type T Comment Status A**
Cisco

The sentence "Alternative test methods that generate equivalent results may be used" does not apply only to "Multi-lane testing considerations". Within this clause, it does not make sense in the middle of a paragraph that deals with various considerations specific for multi-lane testing.

SuggestedRemedy
Either move this sentence to the parent subclause 167.8, or to a separate paragraph at the end of this subclause, or delete it.

Response **Response Status C**
ACCEPT IN PRINCIPLE.

Move the sentence "Alternative test methods that generate equivalent results may be used." to the end of the paragraph.

Cl 167 SC 167.8.3 P56 L5 # 128

Ran, Adeo **Comment Type E Comment Status A Bucket**
Cisco

"Figure 53-6" is a broken link (not found in this document), and is not formatted in green.

SuggestedRemedy
Change to regular text and format in forest green.

Response **Response Status C**
ACCEPT.

Cl 167 SC 167.9.1 P59 L53 # 129

Ran, Adeo **Comment Type ER Comment Status A Bucket**
Cisco

The "General safety" subclauses in the base document now refer to Annex J.

SuggestedRemedy
Change the body of this subclause to "All equipment subject to this clause shall conform to the general safety requirements as specified in J.2".

Also change PICS item ES1.

Response **Response Status C**
ACCEPT IN PRINCIPLE.
Reference Annex J in line with D2.1 of 802.3dc

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Cl 167 SC 167.10.2.2 P62 L29 # 130

Ran, Adee Cisco

Comment Type E Comment Status A Bucket

In "MHz.km" the period is in appropriate. Per IEEE Std 260.1 (referred to by the style manual), either a multiplicative dot or a non-breaking space should be used.

To align with the table footnote, use a multiplicative dot.

SuggestedRemedy

change to "MHz.km".

Response Response Status C

ACCEPT.

Cl 167 SC 167.10.2.2 P62 L39 # 131

Ran, Adee Cisco

Comment Type E Comment Status A

The footnotes to Table 167–15 are about the size of the table itself. Footnote e seems to contain information pertinent separately to each of the fiber types, so may be more adequate as part of the table.

SuggestedRemedy

Consider moving the content of the footnotes into the table or to the body of the subclause.

Response Response Status C

ACCEPT IN PRINCIPLE.
See responses to comments #33, 43
This footnote will be condensed and streamlined.

Cl 167 SC 167.10.2.2 P62 L44 # 132

Ran, Adee Cisco

Comment Type T Comment Status A

"IEC 60793-2-10" appears in the normative references list in 1.3 without a date. If amended, the updated reference pointer (with the expected publication year) should be placed in 1.3 as well as the editor's note about its expected publication.

If this document been liaised to 802.3, please include its pointer in the editor's note.

SuggestedRemedy

Per comment.

Response Response Status C

ACCEPT IN PRINCIPLE.

This footnote was discussed and revised per the response to comment #197.

Update Clause 1.3 with revised date of Amendment 1 to IEC 60793-2-10.

Check to see if this document has been liaised to 802.3.

See response to comments #4 and 197.

Cl 167 SC 167.10.3 P63 L17 # 133

Ran, Adee Cisco

Comment Type T Comment Status R Bucket

Receiver compliance testing is done at TP3 which is the MDI per 167.5.1. So the note should apply only to the transmitter.

SuggestedRemedy

Change the NOTE text to "Transmitter compliance testing is performed at TP2 as defined in 167.5.1, not at the MDI".

Response Response Status C

REJECT.
TP3 is "at the output of the fiber optic cabling at the MDI" and not the MDI itself. The current text is appropriate.

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Cl 167 SC 167.10.3.1 P63 L18 # 134
 Ran, Adee Cisco
 Comment Type T Comment Status R Bucket
 It is unclear why there are no optical lane assignments for the 100GBASE-VR1 and 100GBASE-VR1 MDIs.
 SuggestedRemedy
 Either add text and a diagram for the single-lane MDI lane assignments, or add a text or NOTE to explain why they are not specified.
 Response Response Status C
 REJECT.
 This is consistent with previous clauses, e.g., Clause 138.

Cl 167 SC 167.11.4.3 P69 L36 # 135
 Ran, Adee Cisco
 Comment Type E Comment Status A Bucket
 The Value/Comment in S1 and S2 are invalid and unnecessary.
 SuggestedRemedy
 Delete the Value/Comment in both items.
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Add missing reference "167.8" in the Value/Comment column.

Cl 167 SC 167.1 P41 L46 # 136
 Brown, Matt Huawei
 Comment Type ER Comment Status A Bucket
 Annex 120F and Annex 120G are defined in 802.3ck. 802.3ck is an amendment that comes after 802.3db according to the published timelines and the amendment order proposed by the Working Group Chair. This further established in the front matter on page 1 and page 11 where is clearly shows that 802.3ck does not precede 802.3db. If these Annexes are relevant to the PHYs defined in this clause then this can be addressed by amendments to Clause 162 and other relevant clauses in 802.3ck.
 If it is your intent to point out that AUIs with 100 Gb/s per lane signaling may exist then use and editor's note for that.
 SuggestedRemedy

In Table 167-1 and Table 167-2 delete rows for Annex 120F and Annex 120G. Remove the related editor's notes.
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Remove references to 802.3ck
 Remove rows for 120F and 120G in Table 167-1 and Table 167-2
 Remove editors' notes for both tables.

Cl 167 SC 167.1 P41 L11 # 137
 Brown, Matt Huawei
 Comment Type E Comment Status A Bucket
 Presumably 100 Gigabit Ethernet operates over one fiber, 200 over two, and 400 over four. Change wording to reflect that. Append the sentence with ", respectively".
 SuggestedRemedy
 "The PMD sublayers provide point-to-point 100, 200, and 400 Gigabit Ethernet links over one, two, or four pairs of multimode fiber, respectively." Apply similar change at page 42 line 49 and page 43 line 2.
 Response Response Status C
 ACCEPT.

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Cl 80 SC 80.1.4 P27 L15 # 138
 Brown, Matt Huawei
 Comment Type E Comment Status A Bucket
 Since the table is shown with insertion mark-up with surrounding unchanged text the correct instruction is "change" not "insert" and no further details are required.
 SuggestedRemedy
 Change the instruction to: "Change Table 80-1 as follows (some unchanged rows not shown)"
 Response Response Status C
 ACCEPT.

Cl 91 SC 91.7.3 P32 L5 # 141
 Brown, Matt Huawei
 Comment Type E Comment Status A Bucket
 Since the changes are clearly shown with insert mark-up the instruction is unnecessarily verbose.
 SuggestedRemedy
 Change the instruction to: "Change the table in 91.7.3 as follows (some unchanged rows not shown)"
 Response Response Status C
 ACCEPT.

Cl 80 SC 80.4 P28 L47 # 139
 Brown, Matt Huawei
 Comment Type E Comment Status A Bucket
 Since the table is shown with insertion mark-up with surrounding unchanged text the correct instruction is "change" not "insert" and no further details are required.
 SuggestedRemedy
 Change the instruction to: "Change Table 80-6 as follows (some unchanged rows not shown)"
 Response Response Status C
 ACCEPT.

Cl 91 SC 91.7.4.1 P33 L4 # 142
 Brown, Matt Huawei
 Comment Type E Comment Status A Bucket
 Since the changes are clearly shown with insert mark-up the instruction is unnecessarily verbose.
 SuggestedRemedy
 Change the instruction to: "Change the table in 91.7.4.1 as follows (some unchanged rows not shown)". Same for the table in 91.7.4.2.
 Response Response Status C
 ACCEPT.

Cl 80 SC 80.4 P28 L14 # 140
 Brown, Matt Huawei
 Comment Type E Comment Status A Bucket
 Bottom row has think border at top.
 SuggestedRemedy
 Change top border to "very thin".
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Ensure that all borders in this table are consistent with other tables.

Cl 116 SC 116.1.3 P35 L21 # 143
 Brown, Matt Huawei
 Comment Type E Comment Status A Bucket
 Why not stick with the convention you've used in other tables and use change mark-up and surrounding unchanged text?
 SuggestedRemedy
 Change the instruction to: "Change Table 116-1 as follows (some unchanged rows not shown)". Underline text in new rows and add preceding and succeeding unchanged rows. Apply to other amended tables (including Table 161-7) with similar editing instructions.
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Maintain consistency with other tables.
 Change the instruction to: "Change Table 116-1 as follows (some unchanged rows not shown)". Underline text in new rows and add preceding and succeeding unchanged rows.
 Apply to other amended tables (including Table 116-7) with similar editing instructions.

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Cl 116 SC 116.1.3 P35 L41 # 144
 Brown, Matt Huawei
 Comment Type E Comment Status A Bucket
 Since the table is shown with insertion mark-up with surrounding unchanged text the correct instruction is "change" not "insert" and no further details are required.
 SuggestedRemedy
 Change the instruction to: "Change Table 116-2 as follows (some unchanged rows not shown)". Similar for Table 116.4.
 Response Response Status C
 ACCEPT.

Cl 167 SC 167.1 P41 L51 # 145
 Brown, Matt Huawei
 Comment Type E Comment Status A Bucket
 The word "must" in this context is deprecated.
 SuggestedRemedy
 Change footnote a in in Table 167-1 and Table 167-2 to: "The CGMII is an optional interface. However, if the CGMII is not implemented, a conforming implementation behaves functionally as though the RS and CGMII were present."
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Remove "must" to be in line with 802.3dc D2.1
 See response to comment #232.

Cl 167 SC 167.8.1.1 P55 L33 # 146
 Brown, Matt Huawei
 Comment Type E Comment Status A Bucket
 The word "must" in this context is deprecated.
 SuggestedRemedy
 Change text to the following or similar: "If each lane is stressed in turn, the BER is diluted by the three unstressed lanes, and the BER for that stressed lane alone is found"
 Response Response Status C
 ACCEPT.

Cl 167 SC 167.8.5 P56 L37 # 147
 Brown, Matt Huawei
 Comment Type E Comment Status A Bucket
 The word "must" in this context is deprecated.
 SuggestedRemedy
 Change text to the following or similar: "If an equivalent-time sampling oscilloscope is used, the impact of the sampling process and the fiber emulation is also compensated for, so that the correct magnitude of noise is present at the output of the equalizer."
 Response Response Status C
 ACCEPT IN PRINCIPLE.

Sentence will read as:
 "If an equivalent-time sampling oscilloscope is used, the impact of both the sampling process and the fiber emulation is compensated for, so that the correct magnitude of noise is present at the output of the equalizer."

Cl 167 SC 167.3.2 P45 L26 # 148
 Brown, Matt Huawei
 Comment Type E Comment Status A Bucket
 The word "must" in this context is deprecated. For similar clauses elsewhere this wording has been addressed by comments against 802.3dc D2.0 and will be reflected in 802.3dc D2.1.
 SuggestedRemedy
 Expunge "must" as done in similar clauses in 802.3dc D2.1. Also in 167.5.3
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Remove "must" to be in line with 802.3dc D2.1
 See response to comments #234 and 235.

Cl 167 SC 167.1 P43 L32 # 149
 Stassar, Peter Huawei
 Comment Type ER Comment Status A Bucket
 Missing em dash between "FIBER" and "50 m" & "100 m"
 SuggestedRemedy
 Add em dash plus 2 spaces between "FIBER" and "50 m", and between "FIBER" and "100 m"
 Response Response Status C
 ACCEPT.

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Cl 167 SC 167.3.2.1 P45 L30 # 150
 Stassar, Peter Huawei
 Comment Type ER Comment Status A Bucket
 Unnecessary adding of subclause 167.3.2.1
 SuggestedRemedy
 Move contents of 167.3.2.1 to 167.3.2 and remove heading of 167.3.2.1
 Response Response Status C
 ACCEPT.

Cl 167 SC 167.8.1.1 P55 L28 # 153
 Stassar, Peter Huawei
 Comment Type ER Comment Status A Bucket
 Wrong cross reference.
 SuggestedRemedy
 Change cross reference "Figure 167.1.1" to section "167.1.1"
 Response Response Status C
 ACCEPT.

Cl 167 SC 167.5.1 P46 L40 # 151
 Stassar, Peter Huawei
 Comment Type ER Comment Status A Bucket
 The wording "The block diagrams for 200GBASE-VR2 and 200GBASE-SR2, and 100GBASE-VR1 and 100GBASE-SR1 are equivalent to Figure 167-2, but for two lanes and one lane per direction, respectively." is ambiguous
 SuggestedRemedy
 Change wording to "The block diagrams for 200GBASE-VR2 and 200GBASE-SR2 are equivalent to Figure 167-2, but for two lanes per direction. The block diagrams for 100GBASE-VR1 and 100GBASE-SR1 are equivalent to Figure 167-2, but for one lane per direction."
 Response Response Status C
 ACCEPT.

Cl 1 SC 1.4.103a P18 L28 # 154
 Dudek, Mike Marvell
 Comment Type T Comment Status A Bucket
 200GBASE-SR2 should use 200GBASE-R encoding
 SuggestedRemedy
 Change 100GBASE_R to 200GBase R.
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Change "100GBASE-R" to "200GBASE-R".

Cl 167 SC 167.7 P50 L9 # 152
 Stassar, Peter Huawei
 Comment Type ER Comment Status A Bucket
 Missing comma after 200GBASE-SR2
 SuggestedRemedy
 Add comma after 200GBASE-SR2
 Response Response Status C
 ACCEPT.

Cl 1 SC 1.4.103a P18 L34 # 155
 Dudek, Mike Marvell
 Comment Type T Comment Status A Bucket
 200GBASE-VR2 should use 200GBASE-R encoding
 SuggestedRemedy
 Change 100GBASE_R to 200GBase R.
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Change "100GBASE-R" to "200GBASE-R".

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Cl 1 SC 1.4.103a P18 L40 # 156
 Dudek, Mike Marvell
 Comment Type T Comment Status A Bucket
 400GBASE-SR2 should use 400GBASE-R encoding
 SuggestedRemedy
 Change 100GBASE_R to 400GBase R.
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Change "100GBASE-R" to "400GBASE-R".

Cl 116 SC 116.1.2 P35 L16 # 159
 Dudek, Mike Marvell
 Comment Type E Comment Status A Bucket
 With only 2 items "all" isn't appropriate "both" is better
 SuggestedRemedy
 Change "all" to "both"
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Replace "all" with "each".

Cl 1 SC 1.4.103a P18 L46 # 157
 Dudek, Mike Marvell
 Comment Type T Comment Status A Bucket
 400GBASE-VR2 should use 400GBASE-R encoding
 SuggestedRemedy
 Change 100GBASE_R to 400GBase R.
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Change "100GBASE-R" to "400GBASE-R".

Cl 116 SC 116.4 P38 L18 # 160
 Dudek, Mike Marvell
 Comment Type E Comment Status A Bucket
 The format of the Max bit times isn't consistent in the same table
 SuggestedRemedy
 Remove the space in "4 096" also on line 19. The same issue may exist in Table 116-7 but the other lines aren't shown
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Add space on rows above and below.
 See response to comment #51.

Cl 91 SC 91.6.3 P31 L4 # 158
 Dudek, Mike Marvell
 Comment Type E Comment Status A Bucket
 This may be a problem with 802.3dc but "PMDs." should not be after DR
 SuggestedRemedy
 Delete PMDs on row 4
 Response Response Status C
 ACCEPT.

Cl 167 SC 167.1 P41 L29 # 161
 Dudek, Mike Marvell
 Comment Type E Comment Status A Bucket
 In table 167-1 Clause 91 is out of order compared with table 140-1 in 802.3dc
 SuggestedRemedy
 Move clause 91 after clause 83
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Reorder this table consistent with D2.1 of 802.3dc.
 Move row "91 - RS-FEC" below row "83 - PMA for 100GBASE-R".

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Cl 167 SC 167.1.1 P43 L43 # 162
 Dudek, Mike Marvell
 Comment Type T Comment Status A Bucket
 Wrong cross-reference. 1.4.303 is the "end of packet de-limiter".
 SuggestedRemedy
 Change 1.4.303 to 1.4.344 . Also on line 52
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Change "1.4.303" to "1.4.344" on line 43 and line 52.

Cl 167 SC 167.5.1 P46 L47 # 163
 Dudek, Mike Marvell
 Comment Type E Comment Status A Bucket
 missing words.
 SuggestedRemedy
 Change "defined in are made" to "defined in this clause are made" or add cross reference to 167.7.1
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Add cross reference to 168.8.
 See response to comment #62.

Cl 167 SC 167.5.1 P47 L1 # 164
 Dudek, Mike Marvell
 Comment Type E Comment Status A Bucket
 missing words.
 SuggestedRemedy
 Change "defined in are made" to "defined in this clause are made" or add cross reference to 167.7.2
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Add cross reference to 168.8.
 See response to comment #63.

Cl 167 SC 167.8.5.1 P57 L15 # 165
 Dudek, Mike Marvell
 Comment Type T Comment Status A Bucket
 The sentence isn't precisely stating that the reference equalizer has 9 taps (just that 9 taps are shown in Figure 167-4
 SuggestedRemedy
 Change to "A function model of the 9 tap reference equalizer is shown...."
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Implement with editorial license.

Cl 167 SC 167.8.6 P57 L42 # 166
 Dudek, Mike Marvell
 Comment Type TR Comment Status A Bucket
 The fiber dispersion is now the first filter not the second
 SuggestedRemedy
 Change "except that the second filter representing the dispersion of the fiber is not used" to "except that the first filter representing the dispersion of the fiber is omitted"
 Response Response Status C
 ACCEPT.

Cl 167 SC 167.8.7 P57 L50 # 167
 Dudek, Mike Marvell
 Comment Type T Comment Status A Bucket
 With TDECQ always having a narrower bandwidth filter than TECQ it is extremely unlikely to have larger overshoot/undershoot making the test with the waveform captured for TDECQ unnecessary. (Note this is different than single mode where the fiber dispersion can reduce or increase the overshoot.)
 SuggestedRemedy
 Change "Overshoot and undershoot are measured using the waveform captured for the TDECQ test (see 167.8.5) and the waveform captured for the TECQ test (see 167.8.6), but without the reference equalizer being applied in each case." to "Overshoot and undershoot are measured using the waveform captured for the TECQ test (see 167.8.6), but without the reference equalizer being applied "
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Implement with editorial license.

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Cl 167 SC 167.8.7 P57 L53 # 168
 Dudek, Mike Marvell
 Comment Type T Comment Status A Bucket
 Better wording could be used as 140.7.7 uses a different hit ratio. Make a similar change on page 58 line 12.
 SuggestedRemedy
 Change "using the methods in 140.7.7 with the hit ratio of 3E-3" to "using the methods in 140.7.7 except that a hit ratio of 3E-3 is used"
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Implement with editorial license.

Cl 167 SC 167.8.13 P59 L13 # 169
 Dudek, Mike Marvell
 Comment Type T Comment Status A Bucket
 SECQ is not described in 167.8.6. It needs to be tied to TECQ that is described. Also two different aspects are combined in one bullet.
 SuggestedRemedy
 Make one bullet "The stressed receiver conformance test signal has a transition time that is no greater than the value specified in Table 167-7"
 Make the second bullet "The SECQ of the stressed receiver conformance test signal is equal to the value of the TECQ of the signal measured according to 167.8.6 except that the optical splitter and variable reflector shown in Figure 121-4 are omitted.
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Implement with editorial license.

Cl 167 SC 167.11.4.3 P69 L37 # 170
 Dudek, Mike Marvell
 Comment Type E Comment Status A Bucket
 Missing references
 SuggestedRemedy
 Change to "Per definitions in 167.8 " on lines 36 and 38
 Response Response Status C
 ACCEPT.

Cl 116 SC 116.2.5 P38 L0 # 171
 Slavick, Jeff Broadcom
 Comment Type TR Comment Status A
 116.2.5 lists the clauses that provide the definition for 200G and 400Gs PMDs. Need to include 167 in that list.
 SuggestedRemedy
 Add Clause 167 into the last paragraph for 116.2.5 for rate.
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Add editing instructions to change the second paragraph in Clause 116.2.5 as follows (with appropriate formatting):
 "The 200GBASE-R PMDs and their corresponding media are specified in Clause 121, Clause 122, Clause 136 through Clause 138, and Clause 167. The 400GBASE-R PMDs and their corresponding media are specified in Clause 122 through Clause 124, Clause 138, Clause 150, and Clause 167."

Cl 80 SC 80.1.1 P28 L11 # 172
 Slavick, Jeff Broadcom
 Comment Type TR Comment Status A
 100GAUI-1 is missing from Table 80-5, but is present in Table 167-1
 SuggestedRemedy
 Add 120F and 120G to Table 80-5 with the same editors note that is after Table 167-1.
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 802.3db will be published before 802.3ck. All references to 802.3ck will be removed for D2.1.

Cl 116 SC 116.1.4 P36 L29 # 173
 Slavick, Jeff Broadcom
 Comment Type TR Comment Status A
 200GAUI-2 is missing from Table 116-4, but is present in Table 167-2
 SuggestedRemedy
 Add 120F and 120G to Table 116-4 with the same editors note that is after Table 167-2.
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 802.3db will be published before 802.3ck. All references to 802.3ck will be removed for D2.1.

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Cl 116 SC 116.1.4 P36 L16 # 174
 Slavick, Jeff Broadcom
 Comment Type TR Comment Status A
 400GAUI-4 is missing from Table 116-5, but is present in Table 167-2
 SuggestedRemedy
 Add 120F and 120G to Table 116-5 with the same editors note that is after Table 167-2.
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 802.3db will be published before 802.3ck. All references to 802.3ck will be removed for D2.1.

Cl 167 SC 167.7 P50 L28 # 175
 Nicholl, Shawn Xilinx
 Comment Type E Comment Status A
 Table 167-6 contains references to 100G PMDs and a footnote that reads "The PCS FEC correction function ..."
 For 100G operation, the FEC (Clause 91) is not part of the PCS (Clause 82).
 SuggestedRemedy
 Propose to change the footnote text from "The PCS FEC correction function" to "The RS-FEC error correction function".
 Response Response Status C
 ACCEPT.

Cl 167 SC 167.8.1.1 P55 L30 # 176
 Nicholl, Shawn Xilinx
 Comment Type E Comment Status A Bucket
 Table 167-10 Pattern 5 contains a "Pattern description" column that reads "Scrambled idle encoded by RS-FEC".
 Later, 167.8.1.1 sub-clause text contains a reference with the words shuffled around.
 SuggestedRemedy
 Propose to change the sub-clause text from "Pattern 5 (RS-FEC encoded scrambled idle)" to "Pattern 5 (Scrambled idle encoded by RS-FEC)" such that the paragraph text matches the previous earlier table.
 Response Response Status C
 ACCEPT.

Cl 167 SC 167.9.1 P59 L54 # 177
 Lewis, Jon Dell Technologies
 Comment Type TR Comment Status A
 IEC 60950-1 has been removed and the updated references are in Annex J
 SuggestedRemedy
 Change line 54 to read "All equipment that meets the requirements of this standard shall conform to J.2."
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 See also comments #69 and 95
 Change this sentence to "All equipment subject to this clause shall conform to J.2."

Cl 167 SC 167.11.4.5 P70 L34 # 178
 Lewis, Jon Dell Technologies
 Comment Type TR Comment Status A
 IEC 60950-1 has been removed and the updated references are in Annex J
 SuggestedRemedy
 Change to "Conforms to J.2"
 Response Response Status C
 ACCEPT.

Cl 167 SC 167.7.1 P51 L30 # 179
 Murty, Ramana Broadcom Inc.
 Comment Type T Comment Status A
 The overshoot/undershoot (max) value of 26% at 3E-3 hit ratio in Table 167-7 is low. One should use the same value as single mode links (802.3cu) since the receiver configuration is similar, PIN-TIA-FFE.
 SuggestedRemedy
 Specify overshoot/undershoot (max) as 29% at 3E-3 hit ratio (equivalent to 22% at 1E-2 hit ratio, value in 802.3cu).
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Reviewed presentation murty_3db_02a_111121.
 Implement suggested remedy.

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Cl 167 SC 167.7.1 P51 L32 # 180
 Murty, Ramana Broadcom Inc.
 Comment Type T Comment Status A
 Transmitter power excursion (max) of 2 dBm in Table 167-7 was proposed for a hit ratio of 1E-2.
 SuggestedRemedy
 Specify transmitter power excursion (max) as 2.3 dBm at 3E-3 hit ratio.
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Reviewed presentation murty_3db_02a_111121.
 Implement suggested remedy.

Cl 167 SC 167.8.5 P56 L11 # 181
 Murty, Ramana Broadcom Inc.
 Comment Type T Comment Status A
 The TDECQ test for a multi-mode link uses a fiber emulation filter in place of a real fiber.
 SuggestedRemedy
 Add a figure to show the TDECQ conformance test block diagram, simiilar to Figure 121-4.
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 See response to comment #205.

Cl 1 SC 1.4 P18 L28 # 182
 Huber, Tom Nokia
 Comment Type T Comment Status A Bucket
 200GBASE-SR2 should be described as using 200GBASE-R encoding
 SuggestedRemedy
 Change "... using 100GBASE-R encoding ..." to "... using 200GBASE-R encoding ..."
 Response Response Status C
 ACCEPT.

Cl 1 SC 1.4 P18 L34 # 183
 Huber, Tom Nokia
 Comment Type T Comment Status A Bucket
 200GBASE-VR2 should be described as using 200GBASE-R encoding
 SuggestedRemedy
 Change "... using 100GBASE-R encoding ..." to "... using 200GBASE-R encoding ..."
 Response Response Status C
 ACCEPT.

Cl 1 SC 1.4 P18 L40 # 184
 Huber, Tom Nokia
 Comment Type T Comment Status A Bucket
 400GBASE-VR4 should be described as using 400GBASE-R encoding
 SuggestedRemedy
 Change "... using 100GBASE-R encoding ..." to "... using 400GBASE-R encoding ..."
 Response Response Status C
 ACCEPT.

Cl 80 SC 80.1.1 P28 L1 # 185
 Huber, Tom Nokia
 Comment Type E Comment Status A Bucket
 The heading number for the subclause titled "Physical Layer signaling systems" is 80.1.5
 SuggestedRemedy
 Change 80.1.1 to 80.1.5
 Response Response Status C
 ACCEPT.

Cl 80 SC 80.1.1 P28 L8 # 186
 Huber, Tom Nokia
 Comment Type E Comment Status A Bucket
 The heading for the new columns in Table 80--5 is "Clause 167", while all other columns in the table only have the clause number as a heading.
 SuggestedRemedy
 Change the heading from "Clause 167" to "167"
 Response Response Status C
 ACCEPT.

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CI 116 SC 116.1.4 P36 L32 # 187
 Huber, Tom Nokia
 Comment Type E Comment Status A Bucket
 The heading for the new columns in Table 116-4 is "Clause 167", while all other columns in the table only have the clause number as a heading.
 SuggestedRemedy
 Change the heading from "Clause 167" to "167"
 Response Response Status C
 ACCEPT.

CI 116 SC 116.1.4 P37 L14 # 188
 Huber, Tom Nokia
 Comment Type T Comment Status A Bucket
 Table 116-5 includes columns for 400GBASE-ZR, assuming that P802.3cw would be published prior to P802.3db. Since P802.3cw is not yet in working group ballot, it not clear that it would be published first.
 SuggestedRemedy
 Remove the columns for 400GBASE-ZR from the table, and modify the editing instruction to delete "(as modified by IEEE Std 802.3cw-202x)"
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Remove references to 802.3cw.

Remove "(as modified by IEEE Std 802.3cw-202x)" from editing instructions.
 Remove two columns for ZR from this table.
 Remove row for ZR from this table.

CI 116 SC 116.4 P38 L28 # 189
 Huber, Tom Nokia
 Comment Type E Comment Status A Bucket
 The changes to be made to table 116-7 don't include anything that would be impacted by 802.3cw, so there is no need for the editing instruction to reference 802.3cw. Given that 802.3cw is not yet in working group ballot, it is also unclear that it would be published before 802.3db.
 SuggestedRemedy
 Remove "(as modified by IEEE Std 802.3cw-202x)" from the editing instruction
 Response Response Status C
 ACCEPT.

CI 116 SC 116.5 P38 L54 # 190
 Huber, Tom Nokia
 Comment Type E Comment Status A Bucket
 The changes to be made to tables 116-8 and 116-9 don't include anything that would be impacted by 802.3cw, so there is no need for the editing instruction to reference 802.3cw. Given that 802.3cw is not yet in working group ballot, it is also unclear that it would be published before 802.3db.

SuggestedRemedy
 Remove "(as modified by IEEE Std 802.3cw-202x)" from the editing instruction
 Response Response Status C
 ACCEPT.

CI 167 SC 167.11.3 P67 L1 # 191
 Huber, Tom Nokia
 Comment Type T Comment Status A Bucket
 In the Major Capabilities PICS table, the Item codes *VR1, *VR2, and *VR4 are not referenced in any of the subsequent tables. As such, they should not have the * in the name.
 SuggestedRemedy
 Rename these items VR1, VR2, VR4.
 Response Response Status C
 ACCEPT.

CI 167 SC 167.11.3 P67 L1 # 192
 Huber, Tom Nokia
 Comment Type T Comment Status A Bucket
 In the Major Capabilities table, the item codes *VR2, *SR2, *VR4, and *SR4 are used twice, once for the PMD and once for the MDI. The SR2 and SR4 item codes are used in 6 of the rows in 167.11.4.6; it is unclear if these are referring to the PMD Major Capability, the MDI Major Capability, or both.
 SuggestedRemedy
 Use different names for the 4 MDI rows (e.g. xxx-MDI) in the Major Capabilities table, and update 167.11.4.6 to reflect the intended conditions.
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Remove the four rows starting on line 20 for *VR2, *SR2, *VR4, and *SR4.

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Cl 116 SC 116.4 P38 L4 # 193
 Dawe, Piers Nvidia
 Comment Type E Comment Status A Bucket
 unchanged rows not shown
 SuggestedRemedy
 some unchanged rows not shown
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Update editing instructions to "(some unchanged rows not shown)"

Cl 167 SC 167.8.5 P56 L35 # 194
 Dawe, Piers Nvidia
 Comment Type E Comment Status A Bucket
 "The normalized power density spectrum, N(f)" is missing a word (noise).
 SuggestedRemedy
 Change to ""The normalized noise power density spectrum, N(f)" as in 121.8.5.3, TDECQ measurement method
 Response Response Status C
 ACCEPT.

Cl 167 SC 167.7.1 P51 L28 # 195
 Dawe, Piers Nvidia
 Comment Type TR Comment Status R
 As the channel or signal is relatively slower than for any other optical PMDs so far, we should expect higher Ceq, contributing to TDECQ, but we should not expect higher K because we have 9 taps rather than 5, and 2% threshold adjust rather than 1%. We expect that TDECQ, Ceq and K measurements with 2% threshold adjust will be more accurate than for previous specs, so we need less padding for measurement issues. We should re-optimize the spec considering these things, encouraging good equalisable signals both after and before the fibre. The K' limit can catch some bad transmitters that an overshoot limit intended to pass all good signals would miss - and K' is a free by-product of TECQ. The K' limit is similar to VEC in C2M and EVM in coherent: a screen for signals that are bad after equalisation.

SuggestedRemedy
 Insert row for K'=TECQ-10.log10(Ceq'), limit 4 dB (where K' and Ceq' are the two parts of TECQ as K and Ceq are the two parts of TDECQ). For both VR and SR.
 Response Response Status U
 REJECT.
 Based on Straw Poll:
 I favor including a limit on K' for
 VR 2
 SR 0
 Both 1
 Neither 5
 Abstain 9

Cl 167 SC 167.7.3 P53 L32 # 196
 Dawe, Piers Nvidia
 Comment Type E Comment Status A Bucket
 Figure is a bitmap and looks bad
 SuggestedRemedy
 Insert figure another way so it is a vector graphic. It may be better to avoid diagonal text.
 Response Response Status C
 ACCEPT.

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CI 167 SC 167.10.2.1 P62 L44 # 197

Dawe, Piers

Nvidia

Comment Type E Comment Status A

Problems with footnote f: "these applications" isn't defined, "application" is too vague a word for a standard. What can the reader do with "should have"? I think we mean that older OM3 and OM4 comply to the new spec. When it says "OM3 and OM4 fibers compliant to previous versions ... are suitable for these applications", does that mean that fibers compliant to the current version aren't? Are the old fibres unsuitable at less than maximum length?

SuggestedRemedy

Change

Amendment 1 to IEC 60793-2-10 reflects the fact that the chromatic dispersion values of OM3, OM4 and OM5 should have the same specification. OM3 and OM4 fibers compliant to previous versions of IEC 60793-2-10 are suitable for these applications at the maximum length specified.

to

These limits are consistent with IEC 60793-2-10 Amendment 1 (202x). For OM5, they are the same as previous versions of IEC 60793-2-10. OM3 and OM4 fibers compliant to previous versions of IEC 60793-2-10 are considered compliant for 100GBASE-VR1, 200GBASE-VR2, 400GBASE-VR4, 100GBASE-SR1, 200GBASE-SR2, and 400GBASE-SR4 Physical Layer types.

Response Response Status C

ACCEPT IN PRINCIPLE.

See also responses to comments #4 and 132.

Change

"Amendment 1 to IEC 60793-2-10 reflects the fact that the chromatic dispersion values of OM3, OM4 and OM5 should have the same specification. OM3 and OM4 fibers compliant to previous versions of IEC 60793-2-10 are suitable for these applications at the maximum length specified."

To

"These limits are consistent with IEC 60793-2-10 Amendment 1 (202x). For OM5, they are the same as previous versions of IEC 60793-2-10. OM3 and OM4 fibers compliant to previous versions of IEC 60793-2-10 are considered compliant for 100GBASE-VR1, 200GBASE-VR2, 400GBASE-VR4, 100GBASE-SR1, 200GBASE-SR2, and 400GBASE-SR4 Physical Layer types."

CI 167 SC 167.10.3.2 P64 L23 # 198

Dawe, Piers

Nvidia

Comment Type T Comment Status A

I think this section says that 100GBASE-VR1 or 100GBASE-SR1 must use a non-angled PC interface while 167.10.3.3 must be angled. For "breakout" use, this is enough of a contradiction that it could cause problems

SuggestedRemedy

Add text saying that a device/port/module with multiple 1-lane PMDs can use the adapter, receptacle or plug according to 167.10.3.3 and one of the active lane positions given in 167.10.3.1.

Response Response Status C

ACCEPT IN PRINCIPLE.

Remove the last sentence of 167.10.3.2.

Add to the end of 167.10.3.2: "If the MDI uses a duplex optical connector it is not angled. If the MDI uses a multifiber connector it follows the requirements of 167.10.3.3."

CI 45 SC 45.2.1.24 P23 L12 # 199

Dawe, Piers

Nvidia

Comment Type E Comment Status A Bucket

In the tables in Clause 45, the bits are presented in reverse order.

In 802.3dc, Table 45-27, 40G/100G PMA/PMD extended ability 2 register bit definitions, bits 3 to 9 are allocated, bits 0 and

SuggestedRemedy

Move the row beginning "1:26:2:X0X Reserved" to above 1.26.1 100GBASE-SR1 ability. Delete the last row "...".

So that the reader can understand the context of the amendment and check issues like this, include the adjacent unchanged row from the base document, beginning "1.26.3 100GBASE-DR ability" and change "unchanged rows not shown" to "some unchanged rows not shown".

Response Response Status C

ACCEPT IN PRINCIPLE.

See comment #240.

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Cl 45 SC 45.2.1.22 P23 L19 # 200
 Dawe, Piers Nvidia
 Comment Type E Comment Status A Bucket
 14:14
 SuggestedRemedy
 Delete :14
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 See comment #81.

Cl 80 SC 80.1.1 P28 L10 # 201
 Dawe, Piers Nvidia
 Comment Type E Comment Status A Bucket
 Clause 167
 SuggestedRemedy
 167
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Change text in this cross reference from "Clause 167" to "167".

Cl 80 SC 80.4 P29 L1 # 202
 Dawe, Piers Nvidia
 Comment Type E Comment Status A Bucket
 Table 80-6--Sublayer delay constraints
 SuggestedRemedy
 Table 80-7--Sublayer delay constraints
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Correct table numbering to Table 80-7.

Cl 116 SC 116.1.3 P35 L33 # 203
 Dawe, Piers Nvidia
 Comment Type E Comment Status A Bucket
 Use the standard order of MAC rate (slow to fast), reach (short to long), lane count (high to low), as in Table 80-1 and Table 116-2. So, 200GBASE-VR2 comes after 200GBASE-CR4 and before 200GBASE-SR4, and 200GBASE-SR2 comes after 200GBASE-SR4 and before 200GBASE-DR4. Also show the context to make it easier to review the document.

SuggestedRemedy
 Show the 200GBASE-CR4 row from the base document, then the 200GBASE-VR2 row as in the draft, then the 200GBASE-SR4 row from the base document, then the 200GBASE-SR2 row as in the draft, then the 200GBASE-DR4 row from the base document. Revise the instructions to editor accordingly.

Response Response Status C
 ACCEPT IN PRINCIPLE.
 Reorder this table to be consistent with D2.1 of 802.3dc.

Change table as suggested

Change editing instructions to "(some unchanged rows not shown)".

Cl 167 SC 167.8.11 P58 L42 # 204
 Zivny, Pavel Tektronix
 Comment Type T Comment Status A
 The measurement bandwidth mandated for RIN measurement by the text "b) The upper -3 dB limit of the measurement apparatus is to be approximately equal to the signaling rate (i.e., 53.125 GHz)." is an copy/oaste from past standards. It is neither justified nor feasible. Standard measurement bandwidth should be used.

SuggestedRemedy
 Replace the text "b) The upper -3 dB limit of the measurement apparatus is to be approximately equal to the signaling rate (i.e., 53.125 GHz)." with "b) The bandwidth of the measurement apparatus shall be the same as in "167.8.10 Transmitter transition time".

Response Response Status C
 ACCEPT IN PRINCIPLE.

See response to comment #97.

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CI 167 SC 167.8.6 P57 L40 # 205

Zivny, Pavel Tektronix

Comment Type T Comment Status A

The configuration of TDECQ measurement and of TECQ measurement is insufficiently clear. A figure should be added for better clarity.
The figure (on page 2 of the ppt) is as was (email from Zivny to Dudek et al. Tue 9/21/2021 2:06 PM PDT) in ppt tAlso attached to the comment email.

SuggestedRemedy

in the clause "167.8.6 Transmitter eye closure for PAM4 (TECQ)" do replace the following text
"The transmitter eye closure for PAM4 (TECQ) is a measure of the optical transmitter's eye closure at TP2."
with
"The transmitter eye closure for PAM4 (TECQ) is a measure of the optical transmitter's eye closure at TP2; see figure XYZ".
ALso, in "167.8.5 Transmitter and dispersion eye closure for PAM4 (TDECQ)",
append line 16 "Table 167-11 specifies
the test pattern to be used for measurement of TDECQ."
with line
"See Figure XYZ for measurement setup."

Response Response Status C

ACCEPT IN PRINCIPLE.

Adopt the figure in zivny_03b_01_111821.pdf with the following changes:

Replace "Stressed receiver conformance signal" with "Stressed receiver conformance test signal".

Replace "Noise inject" with "Noise" in the two boxes.

Implement associated text changes in 167.8.5, 167.8.6 and 167.8.13 with editorial license.

CI 1 SC 1.4 P18 L27 # 206

Marris, Arthur Cadence Design Systems

Comment Type E Comment Status A Bucket

Missing space in "1.4.103a200GBASE-SR2:"

SuggestedRemedy

Add space and in the next three sub headings

Response Response Status C

ACCEPT IN PRINCIPLE.

Implement with editorial license.

CI 45 SC 45.2.1.6 P21 L10 # 207

Marris, Arthur Cadence Design Systems

Comment Type E Comment Status A Bucket

Show "1 1 1 x x x x = reserved" as struck through
Change "1 1 1 1 0 0 0 = 50GBASE-BR40-U" to "1 1 1 1 0 0 0 = reserved"
add "1 1 1 0 X X X = reserved"

SuggestedRemedy

See comment

Response Response Status C

ACCEPT IN PRINCIPLE.
See response to comment #78.

CI 45 SC 45.2.1.7.4 P21 L43 # 208

Marris, Arthur Cadence Design Systems

Comment Type E Comment Status A Bucket

Make 167.5.10 a cross reference

SuggestedRemedy

Make 167.5.10 a cross reference and similarly make the next two tables include cross references

Response Response Status C

ACCEPT.

CI 45 SC 45.2.1.21 P22 L37 # 209

Marris, Arthur Cadence Design Systems

Comment Type ER Comment Status A Bucket

1.23.7 and 1.23.8 are being used by 802.3ck

SuggestedRemedy

Move the bits to 1.23.9 and 1.23.10 and add reserved row for 1.23.8:7

Response Response Status C

ACCEPT IN PRINCIPLE.
See comment #239 for bits 1.23.9 and 1.23.10.

Add reserved row for 1.23.8:7.

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Cl 45 SC 45.2.1.22 P23 L19 # 210
 Marris, Arthur Cadence Design Systems
 Comment Type E Comment Status A Bucket
 Clean up reserved rows in Table 45-25
 SuggestedRemedy
 On line 19 make it a single reserved bit 1.24.14 and show ":11" crossed out
 Add another underlined reserved row for 1.24.11. (This bit will be used by 802.3cw for 400GBASE-ZR.)
 Response Response Status C
 ACCEPT.

Cl 45 SC 45.2.1.24 P24 L7 # 211
 Marris, Arthur Cadence Design Systems
 Comment Type ER Comment Status A Bucket
 1.26.0 and 1.26.1 are being used by 802.3ck
 SuggestedRemedy
 Move these ability bits somewhere else
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 See response to comment #240.

Cl 78 SC 78.1.4 P25 L6 # 212
 Marris, Arthur Cadence Design Systems
 Comment Type T Comment Status R
 I do not see EEE listed in the P802.3db objectives
 SuggestedRemedy
 Consider deleting Clause 78 from the 802.3db draft.
 Response Response Status C
 REJECT.
 EEE is included as it is traditional to include multimode PHYs.

Cl 80 SC 80.1.1 P28 L11 # 213
 Marris, Arthur Cadence Design Systems
 Comment Type ER Comment Status A Bucket
 Change "Clause 167" to "167"
 SuggestedRemedy
 Change "Clause 167" to "167"
 Response Response Status C
 ACCEPT.

Cl 167 SC 167.1 P41 L17 # 214
 Marris, Arthur Cadence Design Systems
 Comment Type E Comment Status A Bucket
 Choose font colour of "Clause 45" from forest green to black
 SuggestedRemedy
 Choose font colour of "Clause 45" from forest green to black. Similarly for Clause 1, 80, 91 and 116 on the next page.
 Response Response Status C
 ACCEPT.

Cl 167 SC 167.7.1 P51 L12 # 215
 Marris, Arthur Cadence Design Systems
 Comment Type T Comment Status R
 I thought for new projects the tolerance on the transmit signalling rate is being tightened to 50 ppm
 SuggestedRemedy
 Consider changing 100ppm to 50ppm
 Response Response Status C
 REJECT.
 Since the optical PMDs defined in P802.3db are expected to receive input from AUI which can have a tolerance of +/-100 ppm, the signaling rate tolerance has to remain at +/-100 ppm.

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CI FM SC FM P1 L10 # 216
 Grow, Bob RMG Consulting
 Comment Type E Comment Status A Bucket
 The introduction identifies the amendment as #4.
 SuggestedRemedy
 Amendment 4:
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Change "Draft Standard for Ethernet Amendment:" to "Draft Standard for Ethernet Amendment 4:"

CI FM SC FM P1 L27 # 217
 Grow, Bob RMG Consulting
 Comment Type E Comment Status A Bucket
 Now that P802 D2.1 is out, this can be updated to add IEEE Std 802.3ct-2021 and IEEE Std 802.3cp-2021.
 SuggestedRemedy
 Per comment.
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Update to be consistent with D2.1 of 802.3dc
 Change sentence to: "That draft is a revision of IEEE Std 802.3-2018 as modified by approved amendments IEEE Std 802.3cb-2018, IEEE Std 802.3bt-2018, IEEE Std 802.3cd-2018, IEEE Std 802.3cn-2019, IEEE Std 802.3cg-2019, IEEE Std 802.3cq-2020, IEEE Std 802.3cm-2020, IEEE Std 802.3ch-2020, IEEE Std 802.3ca-2020, IEEE Std 802.3cr-2021, IEEE Std 802.3cu-2021, IEEE Std 802.3cv-2021, IEEE Std 802.3ct-2021, and IEEE Std 802.3cp-2021."

CI FM SC FM P1 L23 # 218
 Grow, Bob RMG Consulting
 Comment Type E Comment Status A Bucket
 The latest revision draft when you resolve comments and recirculate P802.3db will likely be P802.3/D3.0
 SuggestedRemedy
 Per comment.
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 "Draft 2.0 of 802.3dc" will be changed to either "D2.1 of 802.3dc" or "D3.0 of 802.3dc" depending on which is the latest.

CI FM SC FM P11 L10 # 219
 Grow, Bob RMG Consulting
 Comment Type TR Comment Status A
 PHY is not an acronym for Physical Layer in IEEE Std 802.3. No acronym is defined for Physical Layer.
 SuggestedRemedy
 Delete "(PHY)"
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Remove "(PHY)"
 The sentence will read "This amendment adds Physical Layer specifications and management parameters for 100, 200 and 400 Gb/s over one, two and four pairs of multimode fiber based on 100 Gb/s optical signaling."

CI FM SC FM P3 L6 # 220
 Grow, Bob RMG Consulting
 Comment Type E Comment Status A Bucket
 Forward Error Correction should not be capitalized, see Keywords and 1.5 of P802.3.
 SuggestedRemedy
 forward error correction
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Uncapitalize forward error correction.
 "Forward Error Correction" will be replaced with "forward error correction".

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Cl 1 SC 1.4 P18 L12 # 221

Grow, Bob RMG Consulting

Comment Type ER Comment Status A Bucket

With the merge of IEEE Std 802.3ct and IEEE Std 802.3cp into P802.3/D2.1, indeed subclause numbering has changed in P802.3/D2.1, but additionally, base text has also changed from that in this draft. With the expected (conditional) approval to advance the revision project to SA ballot, stability of both subclause numbers and base text should be significantly improved with P802.3/D2.1 and future drafts.

SuggestedRemedy

Review changed clauses against the then current draft of the P802.3 revision project. (I have also submitted individual comments for some specific noted differences found in review of P802.3/D2.1 changes.)

Response Response Status U

ACCEPT IN PRINCIPLE.

Following are the assignments:

- 1.4.38a 100GBASE-SR1 100GBASE-R encoding
- 1.4.41a 100GBASE-VR1 100GBASE-R encoding
- 1.4.108a 200GBASE-SR2 200GBASE-R encoding
- 1.4.109a 200GBASE-VR2 200GBASE-R encoding
- 1.4.142a 400GBASE-SR4 400GBASE-R encoding
- 1.4.144a 400GBASE-VR4 400GBASE-R encoding

Cl 1 SC 1.4.39a P18 L26 # 222

Grow, Bob RMG Consulting

Comment Type E Comment Status A Bucket

Subclause numbers have changed with the merge of 802.3ct and 802.3cp.

SuggestedRemedy

Editing instructions and text subclause numbers can be updated. In P802.3/D2.1: 100GBASE-SR10 is 1.4.40, 100GBASE-SR4 is 1.4.41, 200GBASE-R is 1.4.108, 200GBASE-SR4 is now 1.4.109, 400GBASE-SR16 is now 142, 400GBASE-SR8 is now 144. Change inserted clauses to correspond.

Response Response Status C

ACCEPT IN PRINCIPLE.

See response to comment #221.

Cl 45 SC 45 P21 L1 # 223

Grow, Bob RMG Consulting

Comment Type E Comment Status A Bucket

P802.3/D2.1, Clause 45 is still a mess for capitalization, from the Clause title using too many capitals to the erratic capitalization of "Register" in text throughout.

SuggestedRemedy

This draft seems to be internally consistent (only capitalize "Register" when followed by a name or the first word of a title/sentence), so no change is requested, this comment is just to note that future P802.3 drafts might try to fix some of this, changing base text used in this draft, and P802.3db should follow how this is resolved for P802.3/D2.1 comment resolutions.

Response Response Status C

ACCEPT.

Cl 45 SC 45.2.1.6 P21 L10 # 224

Grow, Bob RMG Consulting

Comment Type E Comment Status A Bucket

No changes are shown in the table, only inserts.

SuggestedRemedy

The last line of the table shows an unchanged row in contradiction to the instruction, (perhaps change instruction to say most unchanged rows not shown). Reserved row existing text should be taken from P802.3/D2.1 rather than what is shown (deleted rows in P802.3/D2.1 should be shown in strikethrough.)

Response Response Status C

ACCEPT IN PRINCIPLE.

See response to comment #78.

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Cl 45 SC 45.2.1.21.9 P22 L47 # 225

Grow, Bob RMG Consulting

Comment Type E Comment Status A Bucket

The insert point and subclause number are incorrect. Bit subclauses are written most significant bit to least significant bit (order of the two new subclauses is correct, but insert point is wrong.

SuggestedRemedy

Inserted clauses should be inserted after 45.2.1.21.1, with bit 1.3.8 being inserted as 45.2.1.21.1a, and bit 1.3.7 being inserted as 45.2.1.21.1b.

Response Response Status C

ACCEPT IN PRINCIPLE.

New subclauses and associated registers:

45.2.1.21.1a 1.23.10
45.2.1.21.1b 1.23.9

Cl 45 SC 45.2.1.22 P23 L9 # 226

Grow, Bob RMG Consulting

Comment Type E Comment Status A Bucket

With this draft now written to amend 802.3-202x, the parenthetical pointing at 802.3cn can be deleted.

SuggestedRemedy

Per comment.

Response Response Status C

ACCEPT.

Cl 45 SC 45.2.1.22 P23 L19 # 227

Grow, Bob RMG Consulting

Comment Type ER Comment Status A Bucket

The bit values do not agree between table and instruction. Unless other reserved bits are being defined in amendments 1-3, the bits defined should probably be 11 and 12, with Reserved becoming 14:13.

SuggestedRemedy

Per comment.

Response Response Status C

ACCEPT IN PRINCIPLE.

New register assignments:

1.24.13 400GBASE-SR4
1.24.12 400GBASE-VR4

See comment #81 for the remaining reserved bits.

Cl 45 SC 45.2.1.22.11 P23 L31 # 228

Grow, Bob RMG Consulting

Comment Type E Comment Status A Bucket

Insert point and subclauses are incorrect.

SuggestedRemedy

insert point would be after 45.2.1.22.1 and bit numbers in the following subclauses should be consistent with resolution of comment on the bit numbers in the table bits 12 and 11 if that comment is accepted).

Response Response Status C

ACCEPT IN PRINCIPLE.

New subclauses and associated registers:

45.2.1.22.1a 1.24.13
45.2.1.22.1b 1.24.12

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Cl 45 SC 45.2.1.24 P24 L12 # 229
 Grow, Bob RMG Consulting
 Comment Type E Comment Status A Bucket
 Bit order in table is wrong. Did you really intend to leave 1.26.2 as the reserved bit instead of bit 0 being left reserved?
 SuggestedRemedy
 Bit 2 should appear above bit 1. Adjust bit numbers if you want the reserved bit to be the LSB of the register.
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 New register assignments:
 1.26.10 100GBASE-VR1
 1.26.2 100GBASE-SR1

Cl 45 SC 45.2.1.24 P23 L49 # 230
 Grow, Bob RMG Consulting
 Comment Type ER Comment Status A Bucket
 The editing instructor is wrong. The words "Table" should not be in the parenthetical. Also all three subclause numbers are wrong.
 SuggestedRemedy
 There is already a 45.2.1.24.7 in P802.3/D2.1 so the final subclause numbers should be 8 and 9 here and on the inserted subclauses on page 24.
 Response Response Status U
 ACCEPT IN PRINCIPLE.
 New subclauses and associated registers:
 45.2.1.24.a 1.26.10
 45.2.1.24.8 1.26.2

Cl 80 SC 80.2.3 P28 L36 # 231
 Grow, Bob RMG Consulting
 Comment Type E Comment Status A Bucket
 Forward Error Correction should not be capitalized, see Keywords and 1.5 of P802.3. Updating changed clause base text to P802.3/D2.1 or later should fix this. (The noted changes are in titles, which might be missed in a base text update.)
 SuggestedRemedy
 Forward error correction (FEC) sublayers, in line 38 forward error correction. Base text also changed for Clause 91, page 30, line 1 (forward error correction), page 23, line 2 (forward error correction) and p. 33., l.1 (forward error correction) and should be fixed
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Change "Forward Error Correction" to "forward error correction" in these instances and elsewhere in the document as appropriate.

Cl 167 SC 167.1 P41 L51 # 232
 Grow, Bob RMG Consulting
 Comment Type E Comment Status A Bucket
 The word "must" is deprecated.
 SuggestedRemedy
 "must behave" -> behaves
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Remove "must" to be consistent with D2.1 of 802.3dc
 Change sentence to read, "However, if the CGMII is not implemented, a conforming implementation behaves functionally as though the RS and CGMII were present."
 See response to comment #145

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Cl 167 SC 167.1 P42 L30 # 233
 Grow, Bob RMG Consulting
 Comment Type E Comment Status A Bucket
 The word "must" is deprecated.
 SuggestedRemedy
 "must behave" -> behaves
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Remove "must" to be consistent with D2.1 of 802.3dc.
 Change sentence to "However, if the appropriate interface is not implemented, a conforming implementation behaves functionally as though the RS and 200GMII or 400GMII were present."

Cl 167 SC 167.3.2 P45 L27 # 235
 Grow, Bob RMG Consulting
 Comment Type E Comment Status A Bucket
 The word "must" is deprecated.
 SuggestedRemedy
 "must also be" -> "also needs to be"
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Remove "must" to be consistent with D2.1 of 802.3dc
 Change sentence to "The Skew Variation is also limited to ensure that a given PCS or FEC lane always traverses the same physical lane."
 This is consistent, for example, with language in 138.3.2 in D2.1of 802.3dc.

Cl 167 SC 167.3.2 P45 L26 # 234
 Grow, Bob RMG Consulting
 Comment Type E Comment Status A Bucket
 The word "must" is deprecated.
 SuggestedRemedy
 "must be" -> "needs to be"
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Remove "must" to be consistent with D2.1 of 802.3dc
 Change sentence to "The Skew (relative delay) between the PCS or FEC lanes is kept within limits so that the information on the PCS or FEC lanes can be reassembled by the PCS or FEC."
 This is consistent, for example, with language in 138.3.2 in D2.1of 802.3dc.

Cl 167 SC 167.5.4 P48 L30 # 236
 Grow, Bob RMG Consulting
 Comment Type E Comment Status A Bucket
 The word "unavoidable" has been purged from P802.3/D2.1.
 SuggestedRemedy
 "As a conquence ..."
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Remove "unavoidable" to be consistent with D2.1 of 802.3dc.
 Change sentence to "As a consequence of the requirements for the setting of the SIGNAL_DETECT parameter, implementations need to provide adequate margin between the input optical power level at which the SIGNAL_DETECT parameter is set to OK, and the inherent noise level of the PMD including the effects of crosstalk, power supply noise, etc."

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Cl 167 SC 167.5.4 P48 L31 # 237
 Grow, Bob RMG Consulting
 Comment Type E Comment Status A Bucket
 The word "must" is deprecated.
 SuggestedRemedy
 "must" -> "need to"
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Remove "must" to be consistent with D2.1 of 802.3dc
 Change sentence to "As a consequence of the requirements for the setting of the SIGNAL_DETECT parameter, implementations need to provide adequate margin between the input optical power level at which the SIGNAL_DETECT parameter is set to OK, and the inherent noise level of the PMD including the effects of crosstalk, power supply noise, etc."

Cl 167 SC 167.8.1.1 P55 L33 # 238
 Grow, Bob RMG Consulting
 Comment Type E Comment Status A Bucket
 The word "must" is deprecated.
 SuggestedRemedy
 "must be" -> "needs to be"
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 See comment #146.

Cl 45 SC 45.2.1.21 P22 L37 # 239
 Anslow, Pete Independent
 Comment Type TR Comment Status A Bucket
 Bits 1.23.7 and 1.23.8 are already allocated in P802.3ck D2.2 as:
 1.23.8 200GBASE-CR2 ability
 1.23.7 200GBASE-KR2 ability
 SuggestedRemedy
 Revert the allocations in register 1.23 to what they were in D1.2:
 1.23.10 200GBASE-SR2 ability
 1.23.9 200GBASE-VR2 ability
 Response Response Status C
 ACCEPT.

Cl 45 SC 45.2.1.24 P23 L45 # 240
 Anslow, Pete Independent
 Comment Type TR Comment Status A Bucket
 Bits 1.26.0 and 1.26.1 are already allocated in P802.3ck D2.2 as:
 1.26.1 100GBASE-CR1 ability
 1.26.0 100GBASE-KR1 ability
 SuggestedRemedy
 Revert the allocations in register 1.26 to what they were in D1.2:
 1.26.10 100GBASE-VR1 ability
 1.26.2 100GBASE-SR1 ability
 Note that in D1.2, these were shown in the wrong order in the table (the row for 1.26.10 100GBASE-VR1 should be above the row for 1.26.2 100GBASE-SR1)
 Response Response Status C
 ACCEPT.

Cl 78 SC 78.1.4 P25 L20 # 241
 Anslow, Pete Independent
 Comment Type E Comment Status A Bucket
 Comment #65 against P802.3cj D2.0 defined the order of items in Table 78-1. See:
<http://www.ieee802.org/3/cj/comments/P8023-D2p0-Comments-Final-byID.pdf#page=14>
 According to this, 100GBASE-VR1 should be inserted after 100GBASE-CR10
 SuggestedRemedy
 Insert the row for 100GBASE-VR1 after the row for 100GBASE-CR10.
 Response Response Status C
 ACCEPT.

Cl 167 SC 167.1 P41 L52 # 242
 Anslow, Pete Independent
 Comment Type E Comment Status A Bucket
 All occurrences of "must" have been removed from the 802.3 revision by comments 17 and 18 against D2.0. See:
https://www.ieee802.org/3/dc/comments/P8023_D2p0_comments_final_by_id.pdf#page=5
 Remove this "must" in accordance with these changes.
 Same issue in Table 167-2 footnote a.
 SuggestedRemedy
 In footnote a to Table 167-1 and footnote a to Table 167-2, change "must behave" to "behaves".
 Response Response Status C
 ACCEPT.

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CI 167 SC 167.3.2 P45 L26 # 243

Anslow, Pete Independent

Comment Type E Comment Status A Bucket

All occurrences of "must" have been removed from the 802.3 revision by comments 17 and 18 against D2.0. See:
https://www.ieee802.org/3/dc/comments/P8023_D2p0_comments_final_by_id.pdf#page=5
 Remove the two instances of "must" in accordance with these changes.

SuggestedRemedy

Change "... FEC lanes must be kept within limits ..." to "... FEC lanes is kept within limits ..."
 On line 27 change "The Skew Variation must also be limited..." to "The Skew Variation is also limited ..."

Response Response Status C

ACCEPT IN PRINCIPLE.
 On line 27 change "The Skew Variation must also be limited..." to "The Skew Variation also needs to be limited ..."

CI 167 SC 167.5.4 P48 L30 # 244

Anslow, Pete Independent

Comment Type E Comment Status A Bucket

All occurrences of "must" have been removed from the 802.3 revision by comments 17 and 18 against D2.0. See:
https://www.ieee802.org/3/dc/comments/P8023_D2p0_comments_final_by_id.pdf#page=5
 Remove the "must" in accordance with these changes.

SuggestedRemedy

Change:
 "As an unavoidable consequence of the requirements for the setting of the SIGNAL_DETECT parameter, implementations must provide adequate margin ..." to:
 "As a consequence of the requirements for the setting of the SIGNAL_DETECT parameter, implementations need to provide adequate margin ..."

Response Response Status C

ACCEPT.

CI 167 SC 167.7.3 P53 L32 # 245

Anslow, Pete Independent

Comment Type ER Comment Status A Bucket

Figure 167-3 is a bit map. This has several drawbacks: the rendition of the figure is poor making small text difficult to read, the use of bit maps increases the file size unnecessarily, the text content of the figures is not searchable and most importantly, including non-editable figures makes life difficult if changes are required in Maintenance after the figure has been incorporated into the next revision.
 If it would help, I can provide a suitable .svg file together with the Octave script that generates it.

SuggestedRemedy

Since this figure illustrates equations, use a vector graphics (e.g., .svg) format and apply the annotations to the lines in FrameMaker.

Response Response Status C

ACCEPT.

CI 80 SC 80.1.1 P28 L10 # 246

Hajduczenia, Marek Charter Communications

Comment Type E Comment Status A Bucket

Clause number should be used - should be "167" and not "Clause 167"
 The same problem is present in Table 116-4 and Table 116-5

SuggestedRemedy

Change "Clause 167" in Table 80-5 to "167". Make sure the link is live.
 The same problem is present in Table 116-4 and Table 116-5

Response Response Status C

ACCEPT.

CI 116 SC 116.1.4 P37 L17 # 247

Hajduczenia, Marek Charter Communications

Comment Type E Comment Status A Bucket

Table 116-5 has unnecessary thick lines on the right-top side of the table around "400GBASE-ZR PCS and" and "400GBASE-ZR PMD"

SuggestedRemedy

Remove unnecessary thick lines

Response Response Status C

ACCEPT IN PRINCIPLE.
 Fix the line thickness in this table to be consistent with other tables.

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Cl 116 SC 116.1.4 P37 L17 # 248
 Hajduczenia, Marek Charter Communications
 Comment Type ER Comment Status A Bucket
 Table 116-5 seems to have an unfinished term "400GBASE-ZR PCS and"
 SuggestedRemedy
 Seems like part of the statement was cut over? Restore the missing entry in the table
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Ensure this table is consistent with D2.1 of 802.3dc
 All references to 802.3cw will be removed
 Remove the columns and row that refer to 400G-ZR.

Cl 167 SC 167.11.4.6 P71 L30 # 251
 Hajduczenia, Marek Charter Communications
 Comment Type ER Comment Status A Bucket
 OC12 mixes "or" with "*" in the same Status entry. Use "INS and (SR2 or SR4):M" or alternatively "INS*(SR2 + SR4):M" syntax.
 The same in OC14. If "+ syntax is used, also consider changing OC8 and OC10.
 SuggestedRemedy
 Per comment
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Replace * with " and " for OC12 and OC14 in the Status column.
 See comment #252 for re-numbering of OC12 and OC14.

Cl 167 SC 167.7.3 P53 L53 # 249
 Hajduczenia, Marek Charter Communications
 Comment Type ER Comment Status A Bucket
 Figure 167-3 is heavily rasterized. Consider using higher resolution figure
 SuggestedRemedy
 Per comment
 Response Response Status C
 ACCEPT.

Cl 167 SC 167.11.4.6 P71 L25 # 252
 Hajduczenia, Marek Charter Communications
 Comment Type ER Comment Status A Bucket
 Missing OC9 and OC13?
 SuggestedRemedy
 Renumber OC10-14
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 Change OC10 to OC9, OC12 to OC10, and OC14 to OC11.

Cl 167 SC 167.8.5 P56 L47 # 250
 Hajduczenia, Marek Charter Communications
 Comment Type E Comment Status A Bucket
 Missing "continued" flag in Table 167-12 + missing heading tag. Alternatively, make sure the table does not break over pages.
 SuggestedRemedy
 Per comment
 Response Response Status C
 ACCEPT IN PRINCIPLE.
 See response to comment #94.