C/ FM SC FM P1 L10 # 216 C/ FM SC FM P1 L27 Grow, Bob **RMG** Consulting Grow, Bob **RMG** Consulting Comment Status D Comment Status D Comment Type Ε Bucket Comment Type Now that P802 D2.1 is out, this can be updated to add IEEE Std 802.3ct-2021 and IEEE The introduction identifies the amendment as #4. Std 802.3cp-2021. SuggestedRemedy SuggestedRemedy Amendment 4: Per comment. Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Change "Draft Standard for Ethernet Amendment:" to "Draft Standard for Ethernet PROPOSED ACCEPT IN PRINCIPLE. Amendment 4:" 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 C/ FM SC FM P1 L23 # 218 approved amendments IEEE Grow, Bob **RMG** Consulting Std 802.3cb-2018, IEEE Std 802.3bt-2018, IEEE Std 802.3cd-2018, IEEE Std 802.3cn-Comment Type Ε Comment Status D Bucket 2019, IEEE Std 802.3cg-2019, IEEE Std 802.3cg-2020, IEEE Std 802.3cm-2020, IEEE Std 802.3ch-2020, The latest revision draft when you resolve comments and recirculate P802.3db will likely be IEEE Std P802.3/D3.0 802.3ca-2020, IEEE Std 802.3cr-2021, IEEE Std 802.3cu-2021, IEEE Std 802.3cv-2021, SuggestedRemedy IEEE Std 802.3ct-2021, and IEEE Std 802.3cp-2021." Per comment. C/ FM SC FM L35 Proposed Response Response Status W Zimmerman, George CME Consulting/ADI, APL Gp. Cisco, CommScope. PROPOSED ACCEPT IN PRINCIPLE. Comment Type E Comment Status D Update as needed. It seems unlikely you will go to SA ballot after 802.3cw. 802.3cw is still at d1p2. "Draft 2.0 of 802.3dc" will be changed to either "D2.1 of 802.3dc" or "D3.0 of 802.3dc" SuggestedRemedy depending on which is the latest version. Check with WG leadership for order of amendments and align this, and amendment P1 L27 # C/ FM SC FM descriptions on page s 10 & 11 Parsons, Earl CommScope Proposed Response Response Status W Comment Type E Comment Status D Bucket PROPOSED ACCEPT IN PRINCIPLE. Make changes according to appropriate amendment order after consulting with Working 802.3ct and 802.3cp have been added to D2.1 of 802.3dc Group leadership. SuggestedRemedy Include 802.3ct-2021 and 802.3cp in this list

Proposed Response

PROPOSED ACCEPT.

Response Status W

217

73

Bucket

Bucket

C/ FM SC FM P1 L37 # 7 Parsons, Earl CommScope Comment Status D Comment Type Ε Bucket Should say Working Group instead of Task Force. Do we need to say ballot instead of review? SuggestedRemedy Correct Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Correct front matter in future drafts for Working Group Review See comment #74 C/ FM SC FM P1 L37 # 74 Zimmerman, George CME Consulting/ADI, APL Gp, Cisco, CommScope, Comment Status D Comment Type E Bucket prepared for Task Force Review... this is for working group ballot SuggestedRemedy Change Task Force Review to Working Group Ballot. Proposed Response Response Status W PROPOSED ACCEPT.

C/ FM SC FM P3 L6

Grow, Bob RMG Consulting

Comment Type E Comment Status D

mment Type **E** Comment Status **D** Bucket Forward Error Correction should not be capitalized, see Keywords and 1.5 of P802.3.

SugaestedRemedy

forward error correction

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE. Uncapitalize forward error correction.

"Forward Error Correction" will be replaced with "forward error correction".

C/ FM SC FM P9 L17 # 8

Parsons, Earl CommScope

Comment Type E Comment Status D 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

Proposed Response Response Status W

PROPOSED ACCEPT.

C/ FM SC FM P10 L29 # 103

Ran, Adee Cisco

Comment Type E Comment Status D 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".

Proposed Response Response Status W

PROPOSED 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."

220

C/ FM SC FM P10 L36 # 9 C/ FM SC FM P12 **L1** # 10 Parsons, Earl CommScope Parsons, Earl CommScope Comment Type E Comment Status D Comment Status D Bucket Comment Type Bucket Changes were made in D2.1 of 802.3dc Extra blank page SuggestedRemedy SuggestedRemedy Update this paragraph to match latest draft of 802.3dc remove Proposed Response Proposed Response Response Status W Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT. Р P11 SC 0 1 C/ FM SC FM L10 # 219 C/ 00 Grow, Bob RMG Consulting Wienckowski, Natalie General Motors Comment Type TR Comment Status D Comment Type T Comment Status D Bucket PHY is not an acronym for Physical Layer in IEEE Std 802.3. No acronymn is defined for Physical Layer. SuggestedRemedy SuggestedRemedy $1 \ 1 \ 1 \ 1 \ 1 \ x \ x = reserved$ Delete "(PHY)" Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT IN PRINCIPLE. See response to comment #78. Remove "(PHY)" SC 0 P0L2 The sentence will read "This amendment adds Physical Layer specifications and C/ 00 # 35 management parameters for 100, 200 and Ghiasi, Ali Ghiasi Quantum/Marvell 400 Gb/s over one, two and four pairs of multimode fiber based on 100 Gb/s optical Comment Type ER Comment Status D signaling." Hyperlink to from sidebar table of content not working C/ FM SC FM P12 **L1** # 45 SuggestedRemedy Wienckowski, Natalie General Motors Please sidebar hyperlink Comment Type E Comment Status D Bucket Proposed Response Response Status W blank page PROPOSED ACCEPT IN PRINCIPLE. SuggestedRemedy Hyperlinks do appear to work in D2.0. Remove the blank page. These links appear to work in Adobe and Chrome. Investigate if there is a problem with Also remove blank pages 19, 26, Apple Preview Proposed Response Response Status W

PROPOSED ACCEPT.

C/ 00 SC 0 P12 **L1** # 104 C/ 00 SC 0 P18 L14 # 106 Ran, Adee Cisco Ran. Adee Cisco Comment Status D Comment Status D Comment Type Ε Bucket Comment Type Bucket There are several blank pages in the draft (apparently at the end of clauses). Many editorial instructions in this draft appear as bookmarks in the bookmark pane, making navigation inconvenient. SuggestedRemedy SuggestedRemedy Delete the empty pages. Apply paragraph formatting for all editorial instructions to avoid them being treated as Proposed Response Response Status W bookmarks. PROPOSED ACCEPT. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. C/ 00 SC 0 P13 L2 # 34 Check with the commenter. Ghiasi. Ali Ghiasi Quantum/Marvell C/ 00 SC 0 P25 L20 # 113 Comment Type ER Comment Status D Ran. Adee Cisco Page hyperlink is not working Comment Type E Comment Status D Bucket SuggestedRemedy Several cross-references to content that is not included in this draft are formatted in green, Please fix the hyperlink to page# but unlike other amendments, they are active (and broken) links. Proposed Response Response Status W Additionally, many cross-references to content in amended clauses that are included in this PROPOSED ACCEPT IN PRINCIPLE. draft (e.g. clauses 82 and 91) are also formatted in green (and some are broken links). These links appear to work in Adobe and Chrome. Investigate if there is a problem with Apple Preview SuggestedRemedy Make all external cross-references plain text in green, and all internal cross-references C/ 00 SC 0 P14 L14 # 37 active links in black. Ghiasi. Ali Ghiasi Quantum/Marvell Proposed Response Response Status W Comment Status D Comment Type ER Bucket PROPOSED ACCEPT IN PRINCIPLE. Incorrect title for 167, Physical Medium Dependent (PMD) sublayer and medium, type 100GBASE-VR1, 200GBASE-VR2, 23 400GBASE-VR4, 100GBASE-SR1, 200GBASE-Ensure that all external cross references are green and not active SR2, and 400GBASE-SR441 Ensure that all internal cross references are black and active, working links. SuggestedRemedy Please repalce 441 with 4 Note that Clause 82 is not included in 802.3db.

Proposed Response

Framemaker issue.

PROPOSED ACCEPT IN PRINCIPLE.

Response Status W

SR441 is actually SR4.....41 where 41 is the page number. Will be fixed in the next draft.

118 SC 1.4 C/ 00 SC 0 P41 L51 C/ 1 P18 L12 # 221 Ran, Adee Cisco Grow, Bob **RMG** Consulting Comment Status D Comment Status D Comment Type ER Bucket Comment Type ER Bucket With the merge of IEEE Std 802.3ct and IEEE Std 802.3cp into P802.3/D2.1, indeed Per 1.1.6 Word usage, "must" cannot be used when stating mandatory requirements. subclause numbering has changed in P802.3/D2.1, but additionally, base text has also Multiple instances of the word "must" appear in text inherited from earlier clauses, on pages changed from that in this draft. With the expected (conditional) approval to advance the 41, 43, 45 (twice), 48, 55, and 56. These earlier clauses have been edited in 802.3dc D2.1 revision project to SA ballot, stability of both subclause numbers and base text should be to eliminate usage of this word. significantly improved with P802.3/D2.1 and future drafts. SuggestedRemedy SuggestedRemedy Change the sentences that include "must" based on similar text in 802.3dc D2.1. 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 Proposed Response Response Status W review of P802.3/D2.1 changes.) PROPOSED ACCEPT IN PRINCIPLE. Proposed Response Response Status W Implement with editorial license. PROPOSED ACCEPT IN PRINCIPLE. See also responses to comments #232, 233, 234, 235, 236 Following are the assignments: C/ 1 SC 1.3 L4 P18 # 105 1.4.38a 100GBASE-SR1 100GBASE-R encoding Ran, Adee Cisco 1.4.41a 100GBASE-VR1 100GBASE-R encoding Comment Status D Comment Type Ε Bucket 1.4.108a 200GBASE-SR2 200GBASE-R encoding 1.4.109a 200GBASE-VR2 200GBASE-R encoding Nothing is inserted in this subclause. 1.4.142a 400GBASE-SR4 400GBASE-R encoding SuggestedRemedy 1.4.144a 400GBASE-VR4 400GBASE-R encoding Delete the subclause and editorial instruction, unless the next draft add some content. C/ 1 SC 1.4 P18 L27 # 206 Proposed Response Response Status W Marris, Arthur Cadence Design Systems PROPOSED ACCEPT. Comment Type E Comment Status D Bucket Missing space in "1.4.103a200GBASE-SR2:" SuggestedRemedy Add space and in the next three sub headings Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE. Implement with editorial license.

C/ 1 SC 1.4 P18 L28 # 182 C/ 1 SC 1.4.39a P18 L15 # 75 Huber, Tom Nokia Zimmerman, George CME Consulting/ADI, APL Gp, Cisco, CommScope, Comment Status D Comment Type E Comment Status D Comment Type т Bucket Bucket 200GBASE-SR2 should be described as using 200GBASE-R encoding 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" SuggestedRemedy 100GBASE-R encoding". Change "... using 100GBASE-R encoding ..." to "... using 200GBASE-R encoding ..." SuggestedRemedy Proposed Response Response Status W Change editing instruction to Insert the following new definition after 1.4.38 100GBASE-R PROPOSED ACCEPT. encodina. Renumber 1.4.39a to 1.4.38a C/ 1 SC 1.4 P18 L34 # 183 Proposed Response Response Status W Nokia Huber, Tom PROPOSED ACCEPT IN PRINCIPLE. See response to comment #221. Comment Type T Comment Status D Bucket 200GBASE-VR2 should be described as using 200GBASE-R encoding C/ 1 SC 1.4.39a P18 L26 # 222 SuggestedRemedy Grow, Bob **RMG** Consulting Change "... using 100GBASE-R encoding ..." to "... using 200GBASE-R encoding ..." Comment Type E Comment Status D Bucket Proposed Response Response Status W Subclause numbers have changed with the merge of 802.3ct and 802.3cp. PROPOSED ACCEPT. SuggestedRemedy Editing instructions and text subclause numbers can be updated. In P802.3/D2.1: SC 1.4 P18 C/ 1 L40 # 184 100GBASE-SR10 is 1.4.40. 100GBASE-SR4 is 1.4.41. 200GBASE-R is 1.4.108. Huber, Tom Nokia 200GBASE-SR4 is now 1.4.109, 400GBASE-SR16 is now 142, 400GBASE-SR8 is now 144. Change inserted clauses to correspond. Comment Type T Comment Status D Bucket Proposed Response Response Status W 400GBASE-VR4 should be described as using 400GBASE-R encoding PROPOSED ACCEPT IN PRINCIPLE. SuggestedRemedy See response to comment #221. Change "... using 100GBASE-R encoding ..." to "... using 400GBASE-R encoding ..." P18 C/ 1 SC 1.4.103a L28 # 154 Proposed Response Response Status W Dudek, Mike Marvell PROPOSED ACCEPT. Comment Type T Comment Status D Bucket 200GBASE-SR2 should use 200GBASE-R encoding SuggestedRemedy Change 100GBASE_R to 200GBase R. Proposed Response Response Status W PROPOSED ACCEPT.

C/ 1	SC 1.4.103a	P 18	L34	# <u>1</u> 55		C/ 1	SC 1.4.136	6a P19	L1	# 11	
Dudek, M	like	Marvell		<u>-</u>		Parsons,	Earl	CommScope			
Comment 200G	,,	Comment Status D If use 200GBASE-R encoding		Ви	ucket	Commen Extra	<i>t Type</i> E blank page	Comment Status D			Bucket
Suggeste Chan	dRemedy ge 100GBASE_R	to 200GBase R.				Suggeste remo	edRemedy ve				
•	Response POSED ACCEPT.	Response Status W				•	l Response POSED ACCEF	Response Status W			
C/ 1	SC 1.4.103a	P18	L 40	# 156		C/ 16	SC 16.7.1	P 51	L 24	# 39	
Dudek, M	like	Marvell				Ghiasi, A	li	Ghiasi Quant	um/Marvell		
Comment 400G	,,	Comment Status D If use 400GBASE-R encoding		Ві	ucket	Commen Still h	,,	Comment Status D to display symbols using Apple	Preview		
Suggeste Chan	<i>dRemedy</i> ge 100GBASE_R	to 400GBase R.					edRemedy se correct when	there is a fix from Adobe			
'	Response POSED ACCEPT.	Response Status W				PRO	<i>l Response</i> POSED ACCEF k for a workarou	Response Status W PT IN PRINCIPLE.			
C/ 1	SC 1.4.103a	P18	L 46	# 157		C/ 16	SC 16.7.2	P 52	L 25	# 41	
Dudek, M	like	Marvell				Ghiasi, A		Ghiasi Quant		π 41	-
	BASE-VR2 should	Comment Status D duse 400GBASE-R encoding		Ви	ucket	Commen	t Type TR	Comment Status D to display symbols using Apple			
Suggeste Chan	<i>dRemedy</i> ge 100GBASE_R	to 400GBase R.					edRemedy				
Proposed	l Response	Response Status W					se correct when I Response	there is a fix from Adobe Response Status W			
PROF	POSED ACCEPT.					'	•	PT IN PRINCIPLE.			
C/ 1	SC 1.4.104a	P 18	L 32	# 76		Chec	k for a workarou	und in FM.			
Zimmerm	ian, George	CME Consulting	/ADI, APL Gp	, Cisco, CommScop	oe,						
Comment	,,	Comment Status D		Ви	ucket						
Editin	g instruction says	"new definitions" - I only see or	ne.								
Suggeste	dRemedy										

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line

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

Response Status W

Proposed Response

PROPOSED ACCEPT.

C/ 16 SC 16.7.2 Page 7 of 49 11/10/2021 11:33:07 PM C/ 30 SC 30.5.1.1.2 P20 L11 # [77]

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

Comment Type T Comment Status D 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.

Proposed Response Response Status W
PROPOSED ACCEPT IN PRINCIPLE.

Add "ATTRIBUTE" and indent "APPROPRIATE SYNTAX" correctly.

Cl 45 SC 45 P21 L1 # 223

Grow, Bob RMG Consulting

Comment Type E Comment Status D 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.

Proposed Response Response Status W

PROPOSED ACCEPT.

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Cl 45 SC 45.2.1.6 P21 L10 # 78
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Zimmerman, George CME Consulting/ADI, APL Gp, Cisco, CommScope,

Comment Type E Comment Status D 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 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 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

<UL> 1 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 = 200GBASE-VR4 PMA/PMD

1 1 1 0 1 0 = 100GBASE-VR4 PMA/PMD

1 1 1 0 0 1 = 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>

<UL> 1 1 1 1 0 0 0 = reserved

1 1 0 x x x = reserved <end UL>

1 0 1 x x x = reserved

..."
```

Proposed Response Response Status W

PROPOSED 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 $\,$

UL> 11 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

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line

C/ **45** SC **45.2.1.6** Page 8 of 49 11/10/2021 11:33:07 PM

1 1 1 1 0 0 1 = 100GBASE-VR4 PMA/PMD < END UL> C/ 45 SC 45.2.1.6 P21 L23 # 50 <SO> 1 1 1 1 1 x x = reserved $1 \ 1 \ 1 \ 1 \ 0 \ 1 \ x = reserved$ Wienckowski. Natalie General Motors 1 1 1 1 0 0 1 = reserved <END SO> Comment Status D Comment Type E Bucket deleted text has to be shown in strikethrough stands for underline and <SO> for strikeout. 50GBASE-BR40-U comes from 802.3cp and was added in 802.3dc D2.1. SuggestedRemedy # 207 C/ 45 SC 45.2.1.6 P21 Add in strikethrough "1 1 1 1 1 x x = reserved" L10 Marris. Arthur Cadence Design Systems Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Comment Type E Comment Status D Bucket See response to comment #78. 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" C/ 45 SC 45.2.1.6 P21 L25 add "1 1 1 0 X X X = reserved" Wienckowski, Natalie General Motors SuggestedRemedy Comment Type E Comment Status D Bucket See comment deleted text has to be shown in strikethrough Proposed Response Response Status W SuggestedRemedy PROPOSED ACCEPT IN PRINCIPLE. Add in strikethrough "1 1 1 1 0 1 x = reserved" See response to comment #78. Proposed Response Response Status W Cl 45 P21 SC 45.2.1.6 L10 # 224 PROPOSED ACCEPT IN PRINCIPLE. Grow, Bob **RMG** Consulting See response to comment #78. Comment Status D Comment Type E **Bucket** Cl 45 P21 SC 45.2.1.6 L26 # 107 No changes are shown in the table, only inserts. Ran, Adee Cisco SuggestedRemedy Comment Type E Comment Status D Bucket The last line of the table shows an unchanged row in contradiction to the instruction, The line for 50GBASE-BR40-U appears in the base document (802.3dc D2.1) so should (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 not be underlined. P802.3/D2.1 should be shown in strikethrough.) SuggestedRemedy Response Status W Remove the underline.

Proposed Response

PROPOSED ACCEPT IN PRINCIPLE.

See response to comment #78.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

50GBASE-BR40-U will be removed (unchanged rows not shown).

See comments #46 and #78.

C/ 45 SC 45.2.1.6 P21 L26 # 47 C/ 45 SC 45.2.1.7.4 P21 L43 # 79 Wienckowski. Natalie General Motors Zimmerman, George CME Consulting/ADI, APL Gp, Cisco, CommScope, Comment Type E Comment Status D Comment Type E Comment Status D Bucket Bucket deleted text has to be shown in strikethrough 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 SuggestedRemedy Add "reserved" in strikethrough make locations in Tables 45-9, 45-10 and 45-12 active cross references 1 1 1 1 0 0 1 = "reserved" 100GBASE-VR1 PMA/PMD Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT. See response to comment #78. C/ 45 SC 45.2.1.21 P**22** L37 # 209 Cl 45 SC 45.2.1.6 P21 L27 # 46 Marris, Arthur Cadence Design Systems Wienckowski, Natalie General Motors Comment Type ER Comment Status D Bucket Comment Type E Comment Status D 1.23.7 and 1.23.8 are being used by 802.3ck an unchanged row is shown as new SugaestedRemedy SugaestedRemedy Move thes bits to 1.23.9 and 1.23.10 and add reserved row for 1.23.8:7 Delete from this draft: 1 1 1 1 0 0 0 = 50GBASE-BR40-U Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT IN PRINCIPLE. See comment #239. See response to comment #78. C/ 45 SC 45.2.1.21 P22 L37 # 239 Cl 45 SC 45.2.1.7.4 P21 L43 # 208 Anslow, Pete Independent Marris, Arthur Cadence Design Systems Comment Type TR Comment Status D Comment Type E Comment Status D **Bucket** Bits 1.23.7 and 1.23.8 are already allocated in P802.3ck D2.2 as: Make 167.5.10 a cross reference 1.23.8 200GBASE-CR2 ability 1.23.7 200GBASE-KR2 ability SuggestedRemedy SuggestedRemedy Make 167.5.10 a cross reference and similarly make the next two tables include cross references Revert the allocations in register 1.23 to what they were in D1.2: 1.23.10 200GBASE-SR2 ability Proposed Response Response Status W 200GBASE-VR2 ability 1.23.9 PROPOSED ACCEPT. Proposed Response Response Status W PROPOSED ACCEPT.

C/ 45 SC 45.2.1.21 P22 L37 # 108 C/ 45 SC 45.2.1.22 P23 L9 # 109 Ran, Adee Cisco Ran. Adee Cisco Comment Status D Comment Status D Comment Type TR Comment Type Ε Bucket Bits 7 and 8 of register 1.23 have been assigned by 802.3ck (since D1.0, December 2019) This draft is an amendment of 802.3dc-202x, so modifications by 802.3cn-2019 are already and are not available. included. SuggestedRemedy SuggestedRemedy Fix the editorial instruction. Keep bits 8:7 reserved, and assign bits 10:9 instead (or others based on availability). Proposed Response Response Status W Change 45.2.1.21.9 and 45.2.1.21.10 accordingly. PROPOSED ACCEPT. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. CI 45 SC 45.2.1.22 P23 L9 # 110 Ran, Adee Cisco See response to comments #225 and #239. Comment Type TR Comment Status D C/ 45 SC 45.2.1.21 P22 L37 # 100 In D2.1 of 802.3dc (as in 802.3cn-2019) bits 14:11 are reserved, not just 14:12, so the new Lusted, Kent Intel Corporation assignments should be bits 12:11, to avoid a single bit gap. Comment Type ER Comment Status D Bucket SuggestedRemedy The 200G PMA/PMD extended ability bits 1.23.7 and 1.23.8 collide with P802.3ck Assign bits 12:11. SuggestedRemedy Proposed Response Response Status W Move the bits to another location in the register PROPOSED ACCEPT IN PRINCIPLE. Proposed Response Response Status W Bit 11 is reserved for 400GBASE-ZR. PROPOSED ACCEPT IN PRINCIPLE. See response to comments #81 and #227 for bit 12. See response to comment #239. C/ 45 SC 45.2.1.22 P23 **L9** # 80 C/ 45 SC 45.2.1.21.9 P22 L47 # 225 Zimmerman, George CME Consulting/ADI, APL Gp, Cisco, CommScope, Grow, Bob RMG Consulting Comment Type E Comment Status D Bucket Comment Type Ε Comment Status D **Bucket** "(as modified by IEEE Std 802.3cn-2019)" - if this is an amendment to the revision (802.3-The insert point and subclause number are incorrect. Bit subclauses are written most 2022), then modification by 802.3cn-2019 is not relevant or necessary. significant bit to least significant bit (order of the two new subclauses is correct, but insert SuggestedRemedy point is wrong. Delete "(as modified by IEEE Std 8092.3cn-2019)" in editing instruction

Proposed Response

PROPOSED ACCEPT.

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.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

SORT ORDER: Clause, Subclause, page, line

New subclauses and associated registers:

45.2.1.21.1a 1.23.10 45.2.1.21.1b 1.23.9

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn

C/ **45** SC **45.2.1.22**

Response Status W

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C/ 45 SC 45.2.1.22 P23 L9 # 226 C/ 45 SC 45.2.1.22 P23 L19 # 210 Grow, Bob **RMG** Consulting Marris, Arthur Cadence Design Systems Comment Status D Comment Type Comment Status D Comment Type Ε Bucket Bucket With this draft now writen to amend 802.3-202x, the parenthetical pointing at 802.3cn can Clean up reserved rows in Table 45-25 be deleted. SuggestedRemedy SuggestedRemedy On line 19 make it a single reserved bit 1.24.14 and show ":11" crossed out Per comment. Add another underlined reserved row for 1.24.11. (This bit will be used by 802.3cw for 400GBASE-ZR.) Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT IN PRINCIPLE. C/ 45 SC 45.2.1.22 P23 L19 # 227 See comment #81. **RMG** Consulting Grow, Bob C/ 45 SC 45.2.1.22 P23 L19 # 81 Comment Type ER Comment Status D Bucket Zimmerman, George CME Consulting/ADI, APL Gp, Cisco, CommScope, The bit values do not agree between table and instruction. Unless other reserved bits are Comment Type E Comment Status D Bucket being defined in amendments 1-3, the bits defined should probably be 11 and 12, with There is only one reserved bit - no need for a range Reserved becoming 14:13. SugaestedRemedy SuggestedRemedy Change edit just to strike out ":12" (deleting the inserted 14, and striking out the colon as Per comment. well) Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT. New register assignments: C/ 45 SC 45.2.1.22.11 P23 L31 # 228 1.24.13 400GBASE-SR4 1.24.12 400GBASE-VR4 Grow. Bob RMG Consulting Comment Type E Comment Status D Bucket See comment #81 for the remaining reserved bits. Insert point and subclauses are incorrect. C/ 45 SC 45.2.1.22 P23 L19 # 200 SuggestedRemedy Dawe, Piers Nvidia insert point woud be after 45.2.1.22.1 and bit numbers in the following subclauses should Comment Status D Comment Type E Bucket be consistent with resolution of comment on the bit numbers in the table bits 12 and 11 if 14:14 that comment is accepted). Proposed Response Response Status W SuggestedRemedy PROPOSED ACCEPT IN PRINCIPLE. Delete:14 Proposed Response Response Status W New subclauses and associated registers: PROPOSED ACCEPT IN PRINCIPLE. 45.2.1.22.1a 1.24.13 45.2.1.22.1b 1.24.12 See comment #81.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line

C/ **45** SC **45.2.1.22.11** Page 12 of 49 11/10/2021 11:33:07 PM

Bucket

C/ 45

C/ 45 SC 45.2.1.24 P23 L12 # 199

Nvidia Dawe, Piers Comment Status D Comment Type Ε

bits 3 to 9 are allocated, bits 0 and

Ran. Adee Cisco

Comment Status D Comment Type TR

SC 45.2.1.24

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).

P23

Change 45.2.1.24.7 and 45.2.1.24.8 accordingly.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

See response to comments #230 and #240 for the register assignments and subclause numbers.

SuggestedRemedy

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

In 802.3dc, Table 45-27, 40G/100G PMA/PMD extended ability 2 register bit definitions,

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".

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE. See comment #240.

Cl 45 SC 45.2.1.24 P23 L45 # 240 Anslow, Pete Independent

Comment Type TR Comment Status D

Bits 1.26.0 and 1.26.1 are already allocated in P802.3ck D2.2 as:

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

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)

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 45 SC 45.2.1.24 P23

L49

L47

82

Bucket

111

Zimmerman, George

CME Consulting/ADI, APL Gp, Cisco, CommScope, Comment Type E

Comment Status D

"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

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

See response to comment #230.

C/ 45 SC 45.2.1.24 P23 L49 # 230 C/ 45 SC 45.2.1.24 P24 L12 Grow, Bob **RMG** Consulting Grow, Bob **RMG** Consulting Comment Status D Comment Status D Comment Type ER Bucket Comment Type E The editing instructon is wrong. The words "Table" should not be in the parenthetical. Also Bit order in table is wrong. Did youreally intend to leave 1.26.2 as the reserved bit instead all three subclause numbers are wrong. of bit 0 being left reserved? SuggestedRemedy SuggestedRemedy There is already a 45.2.1.24.7 in P802.3/D2.1 so the final subclause numbers should be 8 Bit 2 should appear above bit 1. Adjust bit numbers if you want the reserved bit to be the and 9 here and on the inserted subclauses on page 24. LSB of the register. Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT IN PRINCIPLE. New subclauses and associated registers: New register assignments: 45.2.1.24.1a 1.26.10 1.26.10 100GBASE-VR1 45.2.1.24.7a 1.26.2 1.26.2 100GBASE-SR1 C/ 45 SC 45.2.1.24 P24 L7 # 101 CI 78 SC 78.1.4 P25 **L6** Lusted, Kent Intel Corporation Marris, Arthur Cadence Design Systems Comment Type ER Comment Status D Bucket Comment Type Т Comment Status D The 40G/100G PMA/PMD extended ability register 2 bit 1.26.0 and 1.26.1 collide with I do not see EEE listed in the P802.3db objectives P802.3ck SuggestedRemedy SuggestedRemedy Consider deleting Clause 78 from the 802.3db draft. Move the bits to another location in the register Proposed Response Response Status W Proposed Response Response Status W PROPOSED REJECT. PROPOSED ACCEPT IN PRINCIPLE. EEE is included as it is traditional to include multimode PHYs See response to comment #240. Cl 45 P24 L7 SC 45.2.1.24 # 211 Marris, Arthur Cadence Design Systems

Bucket

Comment Type

SuggestedRemedy

Proposed Response

ER

1.26.0 and 1.26.1 are being used by 802.3ck

Move these ability bits somewhere else

PROPOSED ACCEPT IN PRINCIPLE. See response to comment #240.

Comment Status D

Response Status W

229

212

Bucket

CI 78 SC 78.1.4 P25 L8 # 112 CI 78 SC 78.1.4 P26 **L1** # 13 Ran, Adee Cisco Parsons. Earl CommScope Comment Status D Comment Status D Comment Type Ε Bucket Comment Type Bucket 802.3cw is not expected to be published before 802.3db, so its modifications should not be Extra blank page included here. SuggestedRemedy remove 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. Proposed Response Response Status W PROPOSED ACCEPT. Also applies to two instances in 116.1.3 (P35 L40 and P38 L27). SugaestedRemedy C/ 80 SC 80.1.1 P28 **L1** Fix the editorial instructions. CME Consulting/ADI, APL Gp. Cisco, CommScope. Zimmerman, George Proposed Response Response Status W Comment Type E Comment Status D Bucket PROPOSED ACCEPT IN PRINCIPLE. 80.1.1 Should be 80.1.5 Remove 802.3cw from editing instructions SuggestedRemedy Remove "(as modified by IEEE Std 802.3cw-202x)" from editing instructions Change 80.1.1 to 80.1.5 Proposed Response CI 78 SC 78.1.4 P25 L20 # 241 Response Status W PROPOSED ACCEPT. Anslow. Pete Independent Comment Type Ε Comment Status D Bucket C/ 80 SC 80.1.1 P28 **L1** # 185 Comment #65 against P802.3cj D2.0 defined the order of items in Table 78-1. See: Huber, Tom Nokia 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 Comment Type E Comment Status D Bucket The heading number for the subclause titled "Physical Layer signaling systems" is 80.1.5 SuggestedRemedy Insert the row for 100GBASE-VR1 after the row for 100GBASE-CR10. SuggestedRemedy Change 80.1.1 to 80.1.5 Proposed Response Response Status W PROPOSED ACCEPT. Proposed Response Response Status W PROPOSED ACCEPT. CI 78 SC 78.1.4 P25 L51 # 12 Parsons, Earl CommScope C/ 80 SC 80.1.1 P28 **L8** # 186 Comment Type Comment Status D Ε **Bucket** Huber, Tom Nokia Footnote shouldn't be underlined Comment Type E Comment Status D Bucket The heading for the new columns in Table 80--5 is "Clause 167", while all other columns in SuggestedRemedy the table only have the clause number as a heading. remove underline SuggestedRemedy Proposed Response Response Status W Change the heading from "Clause 167" to "167" PROPOSED ACCEPT. Proposed Response Response Status W PROPOSED ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line

C/ 80 SC 80.1.1 Page 15 of 49 11/10/2021 11:33:07 PM

C/ 80 SC 80.1.1	P 28	L 10	# 201		CI 80	SC 80.1.1	P 28	<i>L</i> 11	# 172
Dawe, Piers	Nvidia				Slavick, J	leff	Broadcom		
Comment Type E	Comment Status D			Bucket	Comment	Type TR	Comment Status D		
Clause 167					100G	AUI-1 is missin	g from Table 80-5, but is prese	nt in Table 167-1	
SuggestedRemedy					Suggeste	dRemedy			
167					Add 1	120F and 120G	to Table 80-5 with the same ed	litors note that is	after Table 167-1.
Proposed Response	Response Status W				•	l Response	Response Status W		
PROPOSED ACCE Change text in this of	PT IN PRINCIPLE. cross reference from "Clause 167	" to "167"			_	POSED ACCEP ove references t	T IN PRINCIPLE. o 802.3ck		
C/ 80 SC 80.1.1	P 28	L10	# 14		C/ 80	SC 80.1.1	P 28	<i>L</i> 11	# 213
Parsons, Earl	CommScope				Marris, Aı	rthur	Cadence Des	sign Systems	
Comment Type E	Comment Status D			Bucket	Comment	Type ER	Comment Status D		Bucket
Fix cross reference					Chan	ge "Clause 167	" to "167"		
SuggestedRemedy					Suggeste	dRemedy			
change "Clause 167	" to "167"				Chan	ge "Clause 167	" to "167"		
Proposed Response	Response Status W				Proposed	Response	Response Status W		
PROPOSED ACCE	PT.				PROF	POSED ACCEF	T.		
C/ 80 SC 80.1.1	P 28	L10	# 246		C/ 80	SC 80.1.1	P 28	L13	# 85
Hajduczenia, Marek	Charter Comm	unications			Zimmerm	an, George	CME Consult	ing/ADI, APL Gp	Cisco, CommScope,
Comment Type E	Comment Status D			Bucket	Comment	tType E	Comment Status D		Bucket
	uld be used - should be "167" and				"Clau	se 167" column	header is different than the oth	ners which just ha	ave numbers
•	s present in Table 116-4 and Tab	ole 116-5			Suggeste	dRemedy			
SuggestedRemedy					Chan	ge "Clause 167	" to "167" (as active xref)		
•	7" in Table 80-5 to "167". Make so s present in Table 116-4 and Tab				Proposed	l Response	Response Status W		
Proposed Response	Response Status W				PROF	POSED ACCEP	T.		

PROPOSED ACCEPT.

C/ 80 SC 80.1.3 P27 L9 # 83 C/ 80 SC 80.4 P28 L14 # 140 Zimmerman, George CME Consulting/ADI, APL Gp, Cisco, CommScope, Brown, Matt Huawei Comment Type E Comment Status D Bucket Comment Type Comment Status D Bucket It appears "Clause 140" an external reference is somehow an active cross reference. No Bottom row has think border at top. idea where it points... SuggestedRemedy SuggestedRemedy Change top border to "very thin". See comment, make it not active. Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT. Ensure that all borders in this table are consistent with other tables. C/ 80 SC 80.1.4 P27 L15 # 138 C/ 80 SC 80.4 P28 L47 # 139 Brown, Matt Huawei Brown, Matt Huawei Comment Type E Comment Status D Bucket Comment Type E Comment Status D Bucket Since the table is shown with insertion mark-up with surrounding unchanged text the 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. correct instruction is "change" not "insert" and no further details are required. SugaestedRemedy SuggestedRemedy Change the instruction to: "Change Table 80-6 as follows (some unchanged rows not Change the instruction to: "Change Table 80-1 as follows (some unchanged rows not shown)" shown)" Proposed Response Proposed Response Response Status W Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT. C/ 80 C/ 80 SC 80.4 P29 **L1** # 202 SC 80.2.3 P28 L36 # 231 **RMG** Consulting Dawe, Piers Nvidia Grow, Bob Comment Status D Comment Type E Comment Status D Bucket Comment Type E Bucket Table 80-6--Sublayer delay constraints 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 SuggestedRemedy changes are in titles, which might be missed in a base text update.) Table 80-7--Sublayer delay constraints SuggestedRemedy Proposed Response Response Status W Forward error correction (FEC) sublavers, 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 PROPOSED ACCEPT IN PRINCIPLE. Correct table numbering to Table 80-7 error correction) and p. 33., I.1 (forward error correction) and should be fixed Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

elsewhere in the document as appropriate.

Change "Forward Error Correction" to "forward error correction" in these instances and

Make these changes

C/ 91 SC 91.5.3.3 P30 L12 # 98 Marris. Arthur Cadence Design Systems Comment Status D Comment Type Ε 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" Proposed Response Response Status W PROPOSED ACCEPT. C/ 91 P30 L18 # 114 SC 91.5.3.3 Ran. Adee Cisco Comment Type E Comment Status D 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.

Proposed Response Status W

PROPOSED 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.

C/ 91 SC 91.6.3 P31 L4 # 158 Dudek. Mike Marvell Comment Type Comment Status D Bucket This may be a problem with 802.3dc but "PMDs." should not be after DR SuggestedRemedy Delete PMDs on row 4 Proposed Response Response Status W PROPOSED ACCEPT. C/ 91 SC 91.6.3 P31 L4 Marris. Arthur Cadence Design Systems Comment Type Comment Status D Bucket Change "100GBASE-DR PMDs" to "100GBASE-DR" SugaestedRemedy Change "100GBASE-DR PMDs" to "100GBASE-DR" Proposed Response Response Status W PROPOSED ACCEPT. SC 91.7.3 P32 C/ 91 **L**5 # 141 Brown, Matt Huawei Comment Type E Comment Status D Bucket Since the changes are clearly shown with insert mark-up the instruction is unecessarily verbose. SuggestedRemedy Change the instruction to: "Change the table in 91.7.3 as follows (some unchanged rows not shown)" Proposed Response Response Status W PROPOSED ACCEPT.

C/ 91	SC 91.7.3	P 32	L 27	# 15	C/ 91	SC 91.7.4.2	P 33	L 32	# 17
Parsons,	Earl	CommScope			Parsons,	Earl	CommScope		
Commen Char	t Type E nge cross reference	Comment Status D		Bucket	Comment Chan	t Type E ge cross referenc	Comment Status D		Bucket
	edRemedy ch to external cross	s reference to Clause 91.5.3.3	3.1		Suggeste Switc	•	s reference to Clause 91.5.3.3		
PRO	d Response POSED ACCEPT ch cross reference	Response Status W IN PRINCIPLE. to Clause 91.5.3.3.1			PROF	I Response POSED ACCEPT h cross reference	Response Status W IN PRINCIPLE. to Clause 91.5.3.3		
C/ 91	SC 91.7.4.1	P 33	L 4	# 142	C/ 91	SC 91.7.4.2	P33	L 43	# 18
Brown, N	1att	Huawei			Parsons,	Earl	CommScope		
Commen Since verbe	e the changes are	Comment Status D clearly shown with insert mark	k-up the instruc	Bucket tion is unecessarily		ge cross referenc	Comment Status D e		Bucket
Suggeste	edRemedy				Suggeste	,	s reference to Clause 91.5.3.3		
		to: "Change the table in 91.7. the table in 91.7.4.2.	4.1 as follows (some unchanged rows	Proposed	l Response	Response Status W		
•	d Response POSED ACCEPT.	Response Status W				POSED ACCEPT h cross reference	IN PRINCIPLE. to Clause 91.5.3.3		
C/ 04	00.04.7.4.4	Doo	/ 40	# 40	C/ 91	SC 91.7.4.2	P 34	L 5	# 19
C/ 91	SC 91.7.4.1	P33	L 12	# 16	Parsons,	Earl	CommScope		
Parsons,	t Type E	CommScope Comment Status D		Bucket	Comment Chan	t Type E ge cross referenc	Comment Status D e		Bucket
Char	nge cross reference	е			Suggeste	dRemedy			
	edRemedy				Switc	h to external cros	s reference to Clause 91.5.3.3		
Swite	ch to external cross	s reference to Clause 91.5.2.7	7		Proposed	l Response	Response Status W		
•	d Response POSED ACCEPT	Response Status W IN PRINCIPLE. Switch cross	reference to Cl	ause 91.5.2.7	PROF	POSED ACCEPT	'		

C/ 116 SC 116 P36 L32 # 20 C/ 116 SC 116.1.3 P35 L33 Parsons, Earl CommScope Dawe. Piers Nvidia Comment Status D Comment Status D Comment Type Ε Bucket Comment Type Use the standard order of MAC rate (slow to fast), reach (short to long), lane count (high to Fix cross reference low), as in Table 80-1 and Table 116-2. So, 200GBASE-VR2 comes after 200GBASE-CR4 SuggestedRemedy and before 200GBASE-SR4, and 200GBASE-SR2 comes after 200GBASE-SR4 and change "Clause 167" to "167" before 200GBASE-DR4. Also show the context to make it easier to review the document. SuggestedRemedy Proposed Response Response Status W Show the 200GBASE-CR4 row from the base document. PROPOSED ACCEPT. then the 200GBASE-VR2 row as in the draft. then the 200GBASE-SR4 row from the base document, C/ 116 SC 116.1.2 P35 L16 # 159 then the 200GBASE-SR2 row as in the draft. Dudek, Mike Marvell then the 200GBASE-DR4 row from the base document. Comment Type E Comment Status D Bucket Revise the instructions to editor accordingly. With only 2 items "all" isn't appropriate "both" is better Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. SuggestedRemedy Reorder this table to be consistent with D2.1 of 802.3dc. Change "all" to "both" Proposed Response Response Status W Change table as suggested PROPOSED ACCEPT IN PRINCIPLE. Change editing instructions to "(some unchanged rows not shown)" Replace "all" with "each" C/ 116 SC 116.1.3 P35 L41 C/ 116 SC 116.1.3 P35 L21 # 143 Brown, Matt Huawei Brown, Matt Huawei Comment Status D Comment Type Comment Type E Comment Status D Bucket Since the table is shown with insertion mark-up with surrounding unchanged text the Why not stick with the convention you've used in other tables and use change mark-up and correct instruction is "change" not "insert" and no further details are required. surrounding unchanged text? SuggestedRemedy SuggestedRemedy Change the instruction to: "Change Table 116-2 as follows (some unchanged rows not

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.

Proposed Response Response Status W

PROPOSED 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.

shown)". Similar for Table 116.4.

Proposed Response Response Status W

PROPOSED ACCEPT.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line

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203

144

Bucket

Bucket

C/ 116 SC 116.1.3 P37 L10 # 115 C/ 116 SC 116.1.4 P36 L32 # 187 Ran, Adee Cisco Huber, Tom Nokia Comment Status D Comment Type Comment Status D Comment Type ER Bucket Bucket 802.3cw is not expected to be published before 802.3db, so its modifications (400GBASE-The heading for the new columns in Table 116-4 is "Clause 167", while all other columns in ZR) should not be included here. the table only have the clause number as a heading. SuggestedRemedy SuggestedRemedy Change the heading from "Clause 167" to "167" Fix the editorial instruction, and remove the columns and rows for 400GBASE-ZR. Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT. Remove these references to 802.3cw C/ 116 SC 116.1.4 P36 L34 # 86 Remove "(as modified by IEEE Std 802.3cw-202x)" CME Consulting/ADI, APL Gp, Cisco, CommScope, Zimmerman, George Remove column and row for 400GBASE-ZR Comment Type E Comment Status D Bucket "Clause 167" column header is different than the others which just have numbers C/ 116 SC 116.1.4 P36 L16 # 174 SugaestedRemedy Slavick, Jeff Broadcom Change "Clause 167" to "167" (as active xref) Comment Type TR Comment Status D Proposed Response Response Status W 400GAUI-4 is missing from Table 116-5, but is present in Table 167-2 PROPOSED ACCEPT. SuggestedRemedy Add 120F and 120G to Table 116-5 with the same editors note that is after Table 167-2. C/ 116 SC 116.1.4 P37 L14 # 188 Proposed Response Response Status W Huber, Tom Nokia PROPOSED ACCEPT IN PRINCIPLE. Comment Type T Comment Status D Bucket Remove references to 802.3ck 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 C/ 116 SC 116.1.4 P36 L29 # 173 that it would be published first. Slavick, Jeff Broadcom SuggestedRemedy Comment Type TR Comment Status D Remove the columns for 400GBASE-ZR from the table, and modify the editing instruction 200GAUI-2 is missing from Table 116-4, but is present in Table 167-2 to delete "(as modified by IEEE Std 802.3cw-202x)" SugaestedRemedy Proposed Response Response Status W Add 120F and 120G to Table 116-4 with the same editors note that is after Table 167-2. PROPOSED ACCEPT IN PRINCIPLE. Remove references to 802.3cw Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Remove "(as modified by IEEE Std 802.3cw-202x)" from editing instructions Remove all references to 802.3ck Remove two columns for ZR from this table. Remove row for ZR from this table

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line

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C/ 116 SC 116.1.4 P37 L17 # 248 C/ 116 SC 116.1.4 P37 L20 # 87 Hajduczenia, Marek **Charter Communications** Zimmerman, George CME Consulting/ADI, APL Gp, Cisco, CommScope, Comment Type ER Comment Status D Comment Type E Comment Status D Bucket Bucket Table 116-5 seems to have an unfinished term "400GBASE-ZR PCS and" "Clause 167" column header is different than the others which just have numbers SuggestedRemedy SuggestedRemedy Change "Clause 167" to "167" (as active xref) (2 places) Seems like part of the statement was cut over? Restore the missing entry in the table Proposed Response Proposed Response Response Status W Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT. Ensure this table is consistent with D2.1 of 802.3dc P**37** C/ 116 SC 116.1.4 L23 All references to 802.3cw will be removed Parsons, Farl CommScope Remove the columns and row that refer to 400G-ZR Comment Type E Comment Status D Bucket SR4.2 shouldn't be underlined C/ 116 SC 116.1.4 P37 L17 # 247 SugaestedRemedy Hajduczenia, Marek Charter Communications remove underline from 400GBASE-SR4.2 Comment Type E Comment Status D Bucket Proposed Response Response Status W Table 116-5 has unnecessary thick lines on the right-top side of the table around "400GBASE-ZR PCS and" and "400GBASE-ZR PMD" PROPOSED ACCEPT. SuggestedRemedy SC 116.2.5 P38 C/ 116 L0 # 171 Remove unnecessary thick lines Slavick, Jeff Broadcom Proposed Response Response Status W Comment Type TR Comment Status D PROPOSED ACCEPT IN PRINCIPLE. 116.2.5 lists the clauses that provide the definition for 200G and 400Gs PMDs. Need to Fix the line thickness in this table to be consistent with other tables include 167 in that list. # 21 C/ 116 SC 116.1.4 P37 L18 SuggestedRemedy Add Clause 167 into the last paragraph for 116.2.5 for rate. Parsons, Earl CommScope Comment Type E Comment Status D Bucket Proposed Response Response Status W Fix cross reference PROPOSED ACCEPT IN PRINCIPLE. Add modified paragraph and editing instructions as needed. SuggestedRemedy change "Clause 167" to "167"

Proposed Response

PROPOSED ACCEPT.

Response Status W

C/ 116 SC 116.4 P38 L4 # 193 C/ 116 SC 116.4 P38 L28 # 189 Dawe, Piers Nvidia Huber, Tom Nokia Comment Status D Comment Status D Comment Type E Bucket Comment Type Bucket unchanged rows not shown 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 SuggestedRemedy 802.3cw is not yet in working group ballot, it is also unclear that it would be published some unchanged rows not shown before 802.3db. Proposed Response SuggestedRemedy Response Status W PROPOSED ACCEPT IN PRINCIPLE. Remove "(as modified by IEEE Std 802.3cw-202x)" from the editing instruction Update editing instructions to "(some unchanged rows not shown)" Proposed Response Response Status W C/ 116 SC 116.4 P38 L14 # 51 PROPOSED ACCEPT. Wienckowski, Natalie General Motors C/ 116 SC 116.4 P38 L38 # 116 Comment Type E Comment Status D Bucket Ran, Adee Cisco existing text doesn't match P8023_D2p1_ALL_SECTIONs.pdf Comment Type E Comment Status D Bucket SuggestedRemedy Inserted content is not underlined. Change "8192" to "8 192" SuggestedRemedy on L 21 change "4096" to "4 096". Apply underline formatting for the two inserted rows. Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Make the change in these two rows to match 802.3dc. PROPOSED ACCEPT. Change "8192" to "8 192" on line 14 and change "4096" to "4 096" on line 21. SC 116.5 C/ 116 P38 L54 # 190 Huber, Tom Nokia C/ 116 SC 116.4 P38 L18 # 160 Comment Type E Comment Status D Bucket Dudek, Mike Marvell The changes to be made to tables 116-8 and 116-9 don't include anything that would be Comment Status D Bucket Comment Type Ε impacted by 802.3cw, so there is no need for the editing instruction to reference 802.3cw. The format of the Max bit times isn't consitent in the same table Given that 802.3cw is not yet in working group ballot, it is also unclear that it would be published before 802.3db. SugaestedRemedy Remove the space in "4 096" also on line 19. The same issue may exist in Table 116-7 SuggestedRemedy but the other lines aren't shown Remove "(as modified by IEEE Std 802.3cw-202x)" from the editing instruction Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT. Add space on rows above an below.

See response to comment #51

C/ 167 SC 167 P41 **L1** # 88 C/ 167 SC 167.1 P41 L16 # 89 Zimmerman, George CME Consulting/ADI, APL Gp, Cisco, CommScope, Zimmerman, George CME Consulting/ADI, APL Gp, Cisco, CommScope, Comment Type E Comment Status D Comment Type E Comment Status D Bucket Bucket Missing editing instruction Clause 45 is marked external, even though it is an active cross reference and in the draft SuggestedRemedy SuggestedRemedy Add editing instruction "Insert clause 167 after clause 166 as shown:" Make clause 45 black and not marked external Proposed Response Proposed Response Response Status W Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT IN PRINCIPLE. Change "Clause 45" to black text. C/ 167 SC 167 P41 L2 # 38 Ghiasi, Ali Ghiasi Quantum/Marvell C/ 167 SC 167.1 P41 L16 Comment Type ER Comment Status D Parsons. Earl CommScope The dash between the PMDs is missing Comment Type E Comment Status D Bucket SuggestedRemedy Change cross reference Please repalce 100GBASE VR1 with 100GBASE-VR1, etc. Why is the title in the table of SuggestedRemedy content different that title on this page? Switch to internal cross reference to Clause 45 Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT. The hyphens are present in the PMD names in Clause 167 title. Also TOC has the same title as the Clause (TOC is generated by FM). Check if there is an issue with Apple Preview. C/ 167 SC 167.1 P41 L17 # 214 Marris. Arthur Cadence Design Systems C/ 167 SC 167.1 P41 L11 # 137 Comment Type E Comment Status D Bucket Brown, Matt Huawei Choose font colour of "Clause 45" from forest green to black Comment Type Ε Comment Status D Bucket SuggestedRemedy 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". Choose font colour of "Clause 45" from forest green to black. Similarly for Clause 1, 80, 91 and 116 on the next page. SuggestedRemedy Proposed Response Response Status W

"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.

Proposed Response Response Status W

PROPOSED ACCEPT.

Change text color of the mentioned clauses to black.

PROPOSED ACCEPT IN PRINCIPLE.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line

C/ 167 SC 167.1 Page 24 of 49 11/10/2021 11:33:08 PM

Bucket

Bucket

C/ 167 SC 167.1 P41 L29 # 161

Dudek, Mike Marvell

Comment Type E Comment Status D

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

Proposed Response Status W

PROPOSED 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"

Cl 167 SC 167.1 P41 L46 # 136

Brown, Matt Huawei

Comment Type ER Comment Status D

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.

Proposed Response Response Status W

PROPOSED 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 L46 # 102

Lusted, Kent Intel Corporation

Comment Type TR Comment Status D

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

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Remove references to 802.3ck

Remove rows for 120F and 120G from this table and Table 167-2

Cl 167 SC 167.1 P41 L46 # 117

Ran, Adee Cisco

Comment Type ER Comment Status D

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.

Proposed Response Response Status W

PROPOSED 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.

Bucket

C/ 167 SC 167.1 P41 L49 # 90 C/ 167 SC 167.1 P41 L52 # 242 Zimmerman, George CME Consulting/ADI, APL Gp, Cisco, CommScope, Anslow, Pete Independent Comment Type E Comment Status D Comment Type Comment Status D Bucket Clause 78 is marked external, even though it is an active cross reference and in the draft -All occurrences of "must" have been removed from the 802.3 revision by comments 17 and also on page 42 in Table 167-2. 18 against D2.0. See: https://www.ieee802.org/3/dc/comments/P8023_D2p0_comments_final_by_id.pdf#page=5 SuggestedRemedy Remove this "must" in accordance with these changes. Make clause 78 black and not marked external (2 places) Same issue in Table 167-2 footnote a. Proposed Response Response Status W SuggestedRemedy PROPOSED ACCEPT IN PRINCIPLE. In footnote a to Table 167-1 and footnote a to Table 167-2, change "must behave" to "behaves". Change "Clause 78" to black text. Proposed Response Response Status W C/ 167 SC 167.1 P41 L51 # 232 PROPOSED ACCEPT. Grow, Bob RMG Consulting See response to comments #232 and 233 Comment Type E Comment Status D Bucket C/ 167 SC 167.1 P**42** L30 # 233 The word "must" is deprecated. Grow, Bob **RMG** Consulting SuggestedRemedy Comment Type E Comment Status D Bucket "must behave" -> behaves The word "must" is deprecated. Proposed Response Response Status W SuggestedRemedy PROPOSED ACCEPT IN PRINCIPLE. Remove "must" to be consistent with D2.1 of 802.3dc "must behave" -> behaves Proposed Response Response Status W Change sentence to read, "However, if the CGMII is not implemented, a conforming implementation behaves functionally as though the RS and CGMII were present." PROPOSED ACCEPT IN PRINCIPLE. Remove "must" to be consistent with D2.1 of 802.3dc See response to comment #145 Change sentence to "However, if the appropriate interface is not implemented, a SC 167.1 P41 L51 conforming implementation behaves functionally as though the RS and 200GMII or C/ 167 # 145 400GMII were present." Brown, Matt Huawei Comment Type Comment Status D Bucket C/ 167 SC 167.1 P42 L37 # 52 The word "must" in this context is deprecated. Wienckowski. Natalie General Motors SuggestedRemedy Comment Type E Comment Status D Bucket Change footnote a in in Table 167-1 and Table 167-2 to: "The CGMII is an optional Clause 80 is included in this draft interface. However, if the CGMII is not implemented, a conforming implementation behaves SuggestedRemedy functionally as though the RS and CGMII were present." Change Clause 80 to "black". Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT IN PRINCIPLE. Remove "must" to be in line with 802.3dc D2.1 See response to comment #232 Change "Clause 80" to black text.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general C/L 167

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn

SORT ORDER: Clause, Subclause, page, line

C/ 167

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C/ 167 SC 167.1	P 42	L 37	# 24	CI 167 SC 167.1 P42	L 39	# 27
Parsons, Earl	CommScope			Parsons, Earl CommScope		
Comment Type E Change cross reference	Comment Status D		Bucket	Comment Type E Comment Status D Change cross reference		Bucket
SuggestedRemedy				SuggestedRemedy		
Switch to internal cross	reference to Clause 81			Switch to internal cross reference to 116.2		
Proposed Response PROPOSED ACCEPT	Response Status W			Proposed Response Response Status W PROPOSED ACCEPT.		
C/ 167 SC 167.1	P 42	L 38	# 53	Cl 167 SC 167.1 P42	L 39	# 26
Wienckowski, Natalie	General Motors			Parsons, Earl CommScope		
Comment Type E Clause 80.2 is included	Comment Status D In this draft		Bucket	Comment Type E Comment Status D Change cross reference		Bucket
SuggestedRemedy Change 80.2 to "black"				SuggestedRemedy Switch to internal cross reference to Clause 116		
Proposed Response PROPOSED ACCEPT	Response Status W IN PRINCIPLE.			Proposed Response Response Status W PROPOSED ACCEPT.		
Change "80.2" to black	text.			Cl 167 SC 167.1 P42	L 39	# 54
C/ 167 SC 167.1	P 42	L38	# 25	Wienckowski, Natalie General Motors		
Parsons, Earl	CommScope			Comment Type E Comment Status D		Bucket
Comment Type E	Comment Status D		Bucket	Clause 116 is included in this draft		
Change cross reference	е			SuggestedRemedy		
SuggestedRemedy				Change Clause 116 to "black" and make it a hyperlink.		
Switch to internal cross	reference to 80.2			Proposed Response Response Status W		
Proposed Response	Response Status W			PROPOSED ACCEPT IN PRINCIPLE.		
PROPOSED ACCEPT				Change "Clause 116" and "116.2" to black text.		

C/ 167 SC 167.1	P 42	L 43	# 55	Cl 167 SC 167.1	P 42	L 46	# 56
Wienckowski, Natalie	General Motors			Wienckowski, Natalie	General Moto	rs	
Comment Type E Clause 78 is included in	Comment Status D a this draft		Bucket	Comment Type E Common Clause 1 is included in this draft	ment Status D		Bucket
SuggestedRemedy				SuggestedRemedy			
Change Clause 78 to "b	black".			Change Clause 1 to "black".			
Proposed Response PROPOSED ACCEPT	Response Status W IN PRINCIPLE.			Proposed Response Response PROPOSED ACCEPT IN PRIN	onse Status W CIPLE.		
Change "Clause 78" to	black text.			Change "Clause 1" to black text			
C/ 167 SC 167.1	P 42	L 43	# 28	C/ 167 SC 167.1	P 42	L 46	# 119
Parsons, Earl	CommScope			Ran, Adee	Cisco		
Comment Type E	Comment Status D		Bucket	Comment Type E Comi	ment Status D		Bucket
Change cross reference SuggestedRemedy				The sentence "Further relevant conventions, references, definiti referenced as [B1], [B2], etc.]	ons and abbreviatio	ons) and Annex	A (bibliography,
Switch to internal cross	reference to Clause 78			SuggestedRemedy			
Proposed Response	Response Status W			Move the quoted sentence to a	separate paragraph	at the end of the	e subclause.
PROPOSED ACCEPT.				Proposed Response Respo	onse Status W		
Cl 167 SC 167.1 Parsons, Earl	P 42 CommScope	L46	# 29	PROPOSED ACCEPT IN PRIN Move this sentence to a new pa clauses, for example, Clause 15	ragraph at the end o	of Clause 167.1 t	o match previous
Comment Type E Change cross reference	Comment Status D		Bucket	C/ 167 SC 167.1	P 43	L13	# 30
SuggestedRemedy				Parsons, Earl	CommScope		
Switch to internal cross	reference to Clause 1				ment Status D		Bucket
Proposed Response	Response Status W			Diagram has some issues			
PROPOSED ACCEPT.				SuggestedRemedy Fix box alignment between GMI	I and PCS boxes		
				Proposed Response Response PROPOSED ACCEPT IN PRIN Clean up these boxes	onse Status W CIPLE.		

C/ 167 SC 167.1 P43 L32 # 149 C/ 167 SC 167.3.1 P45 L21 # 57 Stassar, Peter Huawei Wienckowski. Natalie General Motors Comment Type ER Comment Status D Comment Status D Bucket Comment Type E Bucket Missing em dash between "FIBER" and "50 m" & "100 m" Clause 80.4 is included in this draft SuggestedRemedy SuggestedRemedy Add em dash plus 2 spaces between "FIBER" and "50 m", and between "FIBER" and "100 Change 80.4 to "black". m" Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT. Change "80.4" to black text. C/ 167 SC 167.1.1 P43 L43 # 162 C/ 167 SC 167.3.1 P45 L21 # 58 Dudek, Mike Marvell Wienckowski. Natalie General Motors Comment Type T Comment Status D Bucket Comment Type E Comment Status D Bucket Wrong cross-reference, 1.4.303 is the "end of packet de-limiter". Hyperlink missing. SuggestedRemedy SuggestedRemedy Change 1.4.303 to 1.4.344 . Also on line 52 Make 116.4 a hyperlink. Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT. Change "1.4.303" to "1.4.344" on line 43 and line 52. C/ 167 SC 167.3.2 P45 L26 # 243 C/ 167 SC 167.2 P44 L7 # 120 Anslow. Pete Independent Ran, Adee Cisco Comment Type E Comment Status D Bucket Comment Type E Comment Status D Bucket All occurrences of "must" have been removed from the 802.3 revision by comments 17 and It seems that there is an unnecessary line break after "VR2,", maybe because the 18 against D2.0. See: paragraph is not justified. 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 SuggestedRemedy Apply paragraph formatting to justify the paragraph (and others if necessary). Delete the line break if it exists. Change "... FEC lanes must be kept within limits ..." to "... FEC lanes is kept within limits Proposed Response Response Status W On line 27 change "The Skew Variation must also be limited..." to "The Skew Variation is PROPOSED ACCEPT. also limited ..." Proposed Response Response Status W PROPOSED ACCEPT.

See responses to comments #234 and 235

CI 167 SC 167.3.2 P45 L26 # 234

Grow, Bob RMG Consulting

Comment Type E Comment Status D Bucket

The word "must" is deprecated.

SuggestedRemedy

"must be" -> "needs to be"

Proposed Response Status W

PROPOSED 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.

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

Proposed Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Remove "must" to be in line with 802.3dc D2.1

See responses to comments #234 and 235

Cl 167 SC 167.3.2 P45 L27 # 235

Grow, Bob RMG Consulting

Comment Type E Comment Status D Bucket

The word "must" is deprecated.

SuggestedRemedy

"must also be" -> "also needs to be"

Proposed Response Response Status W

PROPOSED 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.

C/ 167 SC 167.3.2.1 P45 L30 # 150

Stassar, Peter Huawei

Comment Type ER Comment Status D 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

Proposed Response Status W

PROPOSED ACCEPT.

CI 167 SC 167.3.2.1 P45 L33 # 59

Wienckowski, Natalie General Motors

Comment Type E Comment Status D Bucket

Clause 116.5 is included in this draft

SuggestedRemedy

Change 116.5 to "black" and make it a hyperlink.

Proposed Response Status W

PROPOSED ACCEPT.

C/ 167 SC 167.3.2.1	P 45	L33	# 31	Cl 167 SC 167.5.1 P46 L40 # [151	\equiv
Parsons, Earl	CommScope			Stassar, Peter Huawei	
Comment Type E Com	ment Status D		Buck	Comment Type ER Comment Status D Bi	ucket
Change cross reference				The wording "The block diagrams for 200GBASE-VR2 and 200GBASE-SR2, and	
SuggestedRemedy				100GBASE-VR1 and 100GBASE-SR1 are equivalent to Figure 167–2, but for two lanes and one lane per direction, respectively." is ambiguous	
Switch to internal cross referen	ce to Clause 116.5			SuggestedRemedy	
Proposed Response Resp	onse Status W			Change wording to "The block diagrams for 200GBASE-VR2 and 200GBASE-SR2 are	
PROPOSED ACCEPT.				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
C/ 167 SC 167.3.2.1	P 45	L 52	# 32	direction."	
Parsons, Earl	CommScope			Proposed Response Response Status W	
	ment Status D		Buck	PROPOSED ACCEPT.	
Change cross reference				Cl 167 SC 167.5.1 P46 L47 # 163	
SuggestedRemedy				Dudek, Mike Marvell	
Switch to internal cross referen	ce to Clause 45			Comment Type E Comment Status D B	ucket
Proposed Response Resp	onse Status W			missing words.	
PROPOSED ACCEPT.				SuggestedRemedy	
C/ 167 SC 167.4	P 45	L48	# 60	Change "defined in are made" to "defined in this clause are made" or add cross referen to 167.7.1	ice
Wienckowski, Natalie	General Motors			Proposed Response Response Status W	
Comment Type E Com Clause 116.5 is included in this	ment Status D draft		Buck	PROPOSED ACCEPT IN PRINCIPLE. Add cross reference to 168.8.	
SuggestedRemedy				See response to comment #62	
Change 116.5 to "black" and m	ake it a hyperlink.			·	
Proposed Response Resp	onse Status W			Cl 167 SC 167.5.1 P46 L47 # 62	
PROPOSED ACCEPT.				Wienckowski, Natalie General Motors	
Cl 167 SC 167.4	P 45	L 53	# 61	Comment Type E Comment Status D Be Remove random word "in".	ucket
Wienckowski, Natalie	General Motors			SuggestedRemedy	
Clause 45 is included in this dr	<i>ment Status</i> D aft		Buck	Change: all transmitter measurements and tests defined in are made at TP2. To: all transmitter measurements and tests defined are made at TP2.	
				Proposed Response Response Status W	
SuggestedRemedy				1 Topocod Tooponeo Tooponeo Otatao 11	
SuggestedRemedy Change Clause 45 to "black".				PROPOSED ACCEPT IN PRINCIPLE.	
Change Clause 45 to "black".	onse Status W			•	

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line

C/ **167** SC **167.5.1** Page 31 of 49 11/10/2021 11:33:09 PM

C/ 167 SC 167.5.1 P47 L1 # 164

Dudek, Mike Marvell

Comment Type E Comment Status D Bucket missing words.

SuggestedRemedy

Change "defined in are made" to "defined in this clause are made" or add cross reference to 167.7.2

Proposed Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Add cross reference to 168.8.

See response to comment #63

Cl 167 SC 167.5.1 P47 L1 # 63

Wienckowski, Natalie General Motors

Comment Type E Comment Status D 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.

Proposed Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

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

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"

"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".

Proposed Response Response Status W

PROPOSED ACCEPT.

Bucket

C/ 167 SC 167.5.2 P47 L43 # 122 Ran. Adee Cisco

Comment Status D Comment Type Т

"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.

Proposed Response Response Status W

PROPOSED ACCEPT.

C/ 167 SC 167.5.4 P48 **RMG** Consulting Grow, Bob

Comment Type Ε Comment Status D

Bucket

L30

236

The word "unavoidable" has been purged from P802.3/D2.1.

SuggestedRemedy

"As a conquence ..."

Proposed Response Response Status W

PROPOSED 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."

C/ 167 SC 167.5.4 P48 L30 # 244 Anslow, Pete Independent Comment Type Comment Status D 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 ..."

Proposed Response Response Status W

PROPOSED ACCEPT.

See response to comment #236

C/ 167 SC 167.5.4 P48 L31 RMG Consulting Grow, Bob

Comment Type E Comment Status D Bucket

The word "must" is deprecated.

SuggestedRemedy

"must" -> "need to"

Proposed Response Response Status W

PROPOSED 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."

C/ 167 SC 167.5.5 P48 L42 # 123 C/ 167 SC 167.5.11 P49 L46 # 65 Ran, Adee Cisco Wienckowski, Natalie General Motors Comment Status D Comment Status D Comment Type Ε Bucket Comment Type E Bucket The sentence "Various implementations of the Signal Detect function are permitted by this Clause 45.2.1.7.5 is included in this draft standard" seems irrelevant here, and is probably repeated from the previous subclause. SuggestedRemedy SuggestedRemedy Change 45.2.1.7.5 to "black" and make it a hyperlink. Delete the quoted sentence. Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED REJECT. This sentence comes from previous clauses. The commenter has not provided a reason to Change "45.1.7.5" to black text. remove it. C/ 167 SC 167.5.11 P49 L46 # 92 SC 167.5.10 C/ 167 P49 L38 # 64 Zimmerman, George CME Consulting/ADI, APL Gp, Cisco, CommScope, Wienckowski. Natalie General Motors Comment Type E Comment Status D Bucket Comment Type E Comment Status D Bucket 45.2.1.7.5 is marked external even though it is in the draft Clause 45.2.1.7.4 is included in this draft SuggestedRemedy SuggestedRemedy make 45.2.1.7.5 an active cross reference, not external, and black Change 45.2.1.7.4 to "black" and make it a hyperlink. Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT IN PRINCIPLE. Change "45.2.1.7.5" to black text. Change "45.2.1.7.4" to black text. C/ 167 SC 167.6 P50 **L1** # 124 C/ 167 SC 167.5.10 P49 L38 # 91 Ran, Adee Cisco CME Consulting/ADI, APL Gp, Cisco, CommScope, Zimmerman, George Comment Status D Comment Type T Bucket Comment Type E Comment Status D Bucket There is no RS-FEC sublayer in 200GBASE-R and 400GBASE-R. The lane reordering is a 45.2.1.7.4 is marked external even though it is in the draft PCS function in these PHYs. SuggestedRemedy SuggestedRemedy Change "the RS-FEC sublayer is" to "the PCS and the RS-FEC sublayer are". make 45.2.1.7.4 an active cross reference, not external, and black Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT. Change "45.2.1.7.4" to black text.

Cl 167 SC 167.7 P50 L9 # 152
Stassar, Peter Huawei
Comment Type ER Comment Status D Bucket

Missing comma after 200GBASE-SR2

SuggestedRemedy

Add comma after 200GBASE-SR2

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 167 SC 167.7 P50 L19 # 66

Wienckowski, Natalie General Motors

Comment Type TR Comment Status D

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

Proposed Response Status W

PROPOSED REJECT.

The objectives in 802.3db are written the same way as recent multi-mode link standards, e.g., 802.3cm, 802.3cd and 802.3bm. All these projects have defined links for both OM3 and OM4 for broad market potential.

The link length in the objectives is for OM4 fiber.

Cl 167 SC 167.7 P50 L24 # 67

Wienckowski, Natalie General Motors

Comment Type TR Comment Status D

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

Proposed Response Status W

PROPOSED REJECT.

See response to comment #66.

Cl 167 SC 167.7 P50 L28 # 175

Nicholl, Shawn Xilinx

Comment Type E Comment Status D

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".

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Discuss

Cl 167 SC 167.7.1 P51 L12 # 215

Marris, Arthur Cadence Design Systems

Comment Type T Comment Status D

I thought for new projects the tolerance on the transmit signalling rate is being tightened to 50 ppm

SuggestedRemedy

Consider changing 100ppm to 50ppm

Proposed Response Status W

DISCUSS

C/ 167 SC 167.7.1 P51 L28 # 195

Dawe Piers Nvidia

Dawe, Piers Nvidia

Comment Type TR Comment Status X

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 reoptimise 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.

Proposed Response Response Status W

DISCUSS

C/ 167 SC 167.7.1 P51 L30 # 179

Murty, Ramana Broadcom Inc.

Comment Type T Comment Status X

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.

SugaestedRemedy

Specify overshoot/undershoot (max) as 29% at 3E-3 hit ratio (equivalent to 22% at 1E-2 hit ratio, value in 802.3cu).

Proposed Response Response Status W

Review accompanying presentation.

C/ 167 SC 167.7.1 P51 L32 # [180

Murty, Ramana Broadcom Inc.

Comment Type T Comment Status X

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.

Proposed Response Status W

Review accompanying presentation.

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 Status W

PROPOSED ACCEPT IN PRINCIPLE.

Review presentation

Cl 167 SC 167.7.2 P53 L44 # 40

Ghiasi, Ali Ghiasi Quantum/Marvell

Comment Type TR Comment Status X

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

https://www.ieee802.org/3/db/public/September-09-September-29-2021/qhiasi 802.3db 01 092321.pdf

SuggestedRemedy

MMSE is representative of real receiver and a full grid search may produce results slighty 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.

Proposed Response Response Status W

DISCUSS

CI 167 SC 167.7.3 P53 L13 # 68
Wienckowski, Natalie General Motors

Comment Type TR Comment Status D

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

Proposed Response Status W

PROPOSED REJECT.

See response to comment #66.

Cl 167 SC 167.7.3 P53 L32 # 196

Dawe, Piers Nvidia

Comment Type E Comment Status D 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.

Proposed Response Response Status W PROPOSED ACCEPT.

Cl 167 SC 167.7.3 P53 L32

Anslow, Pete Independent

Comment Type ER Comment Status D 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 noneditable 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.

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 167 SC 167.7.3 P53 L53 # 249

Hajduczenia, Marek Charter Communications

Comment Type ER Comment Status D Bucket.

Figure 167-3 is heavily rasterized. Consider using higher resolution figure

SuggestedRemedy

Per comment

Proposed Response Status W

PROPOSED ACCEPT.

245

Comment Type T Comment Status D

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

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.

Proposed Response Response Status W

DISCUSS

The text noted in the comment is taken from 802.3cd. The word "shall" is indeed repeated.

The sentence construction is intended to provide links to Tables in subclause 167.7.

CI 167 SC 167.8.1.1 P55 L26 # 126

Ran, Adee 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

Comment Type E

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

Comment Status D

Proposed Response Status W

DISCUSS

167.8.1.1 is a continuation of the description of testing in 167.8.1.

Subclauses 167.8.2 to 167.8.13 describe specific items in the tables in subclause 167.7.

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line

C/ 167 SC 167.8.1.1 Page 38 of 49 11/10/2021 11:33:09 PM

C/ 167 SC 167.8.1.1 P55 L28 # 153 Stassar, Peter Huawei Comment Status D Comment Type ER Bucket Wrong cross reference. SuggestedRemedy Change cross reference "Figure 167.1.1" to section "167.1.1" Proposed Response Response Status W PROPOSED ACCEPT. C/ 167 SC 167.8.1.1 P55 L30 # 176 Xilinx Nicholl, Shawn Comment Type Ε Comment Status D 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. Proposed Response Response Status W

PROPOSED ACCEPT.

P55 L33 C/ 167 SC 167.8.1.1 # 146 Brown, Matt Huawei

Comment Type E Comment Status D

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"

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Sentence will read as suggested:

"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, ..."

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

Ran. Adee Cisco

SC 167.8.1.1

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.

P55

Comment Status X

L42

127

SuggestedRemedy

Comment Type T

C/ 167

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

Proposed Response Response Status W **DISCUSS**

C/ 167 SC 167.8.3 P56 **L5** # 128 Cisco Ran, Adee

Comment Status D Comment Type

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

SuggestedRemedy

Bucket

Change to regular text and format in forest green.

Proposed Response Response Status W

PROPOSED ACCEPT.

Bucket

C/ 167 SC 167.8.5 P56 L11 # 181 Murty, Ramana Broadcom Inc. Comment Status D Comment Type 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, similar to Figure 121-4. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.

See response to comment #205. C/ 167 SC 167.8.5 P56 L35 # 194 Dawe, Piers Nvidia

Comment Type E Comment Status D 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

Proposed Response Response Status W PROPOSED ACCEPT.

C/ 167 SC 167.8.5 P**56** L37 # 147

Brown, Matt Huawei Comment Type Comment Status D 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."

Proposed Response Response Status W PROPOSED 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."

C/ 167 SC 167.8.5 P56 L44 # 93

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

Comment Status D Comment Type TR

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.

Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.

See response to comment #40.

C/ 167 SC 167.8.5 P**56** L47 # 250

Hajduczenia, Marek **Charter Communications**

Comment Status D Comment Type E Bucket

Missing "continued" flag in Table 167-12 + missing heading tag. Alternatively, make sure the table does not break over pages.

SuggestedRemedy

Per comment

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

See response to comment #94. SC 167.8.5

P56 # 94 CME Consulting/ADI, APL Gp, Cisco, CommScope, Zimmerman, George

Comment Status D

Table 167-12 should be on the same page - the headers are on one page and the body on

L47

the next. It's a short table

SuggestedRemedy

Comment Type E

C/ 167

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

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Try getting Table 167-12 on one page.

Bucket

Comment Type E Comment Status D

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

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

See response to comment #40.

C/ 167 SC 167.8.5.1 P57 L15 # 165

Dudek, Mike Marvell

Comment Type T Comment Status D

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...."

Proposed Response Status W

PROPOSED ACCEPT IN PRINCIPLE. Implement with editorial license.

Cl 167 SC 167.8.6 P57 L40 # 205

Zivny, Pavel Tektronix

Comment Type T Comment Status D

The configuration of TDECQ measurement and of TECQ measurement is insuficiently 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

Bucket

"See Figure XYZ for measurement setup."

Proposed Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Review accompanying presentation.

C/ 167 SC 167.8.6 P57 L42 # 166

Dudek, Mike Marvell

Comment Type TR Comment Status D

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"

Proposed Response Response Status W

PROPOSED ACCEPT.

Bucket

C/ 167

C/ 167 SC 167.8.7 P57 L50 # 167 Dudek, Mike Marvell

Comment Type Comment Status D Т

Zivny, Pavel Comment Type Comment Status D Т

SC 167.8.11

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 unnecesary. (Note this is different than single mode where the fiber dispersion can reduce or increase the overshoot.)

SugaestedRemedy

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 "

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Implement with editorial license.

C/ 167 SC 167.8.7 P**57** L53 # 168 Dudek, Mike Marvell

Comment Type T Comment Status D 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"

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE. Implement with editorial license.

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)."

P58

Tektronix

L42

204

is an copy/oaste from past standards. It is neither justified nor feasible. Standard measurement bandwith 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),"

"b) The bandwidth of the measurement apparatus shall be the same as in "167.8.10 Transmitter transition time".

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Discuss

C/ 167 SC 167.8.11 P58 L42 # 97

Nicholl, Gary Cisco Systems, Inc.

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

Comment Type

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

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

TR

Measure RIN OMA using a low pass filter with a 4th order Bessel-Thomson response and a -3 dB bandwidth of 26,5625 GHz.

RIN OMA specification has been de-emphasized in multi-mode standards.

Comment Status D

Clause 52 (10GBASE-S)

RIN OMA (max) of -128 dB/Hz

Use a low pass filter with -3dB bandwidth near 10 GHz

Clause 86 (40GBASE-SR4)

No RIN specification (covered by TDEC)

Clause 95 (100GBASE-SR4)

No RIN specification (covered by TDEC)

Clause 138 (50GBASE-SR1)

RIN OMA (max) of -128 dB/Hz (chiefly covered by TDECQ)

Use a low pass filter with -3dB bandwidth near 26.6 GHz

Clause 167 (100GBASE-SR1, P802.3db)

RIN OMA (max) of -131 dB/Hz (chiefly covered by TDECQ)

C/ 167 SC 167.8.13 P59 L13 # 169

Dudek. Mike Marvell

Comment Type T Comment Status D

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 recevier 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.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Implement with editorial license.

C/ 167 SC 167.8.13.1 P59 L46 # 42

Maguire, Valerie The Siemon Company

Comment Status D Comment Type

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..."

Proposed Response Response Status W

PROPOSED REJECT.

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

C/ 167 SC 167.9.1 P59 L53 # 129

Ran, Adee Cisco

Comment Type ER Comment Status D Bucket

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.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Reference Annex J in line with D2.1 of 802.3dc

C/ 167 SC 167.9.1 P59 L54 # 69

Wienckowski, Natalie General Motors

Comment Type TR Comment Status D

Should refer to Annex J. IEC 60950-1 is obsolete.

SuggestedRemedy

Bucket

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.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Change reference to IEC 60950-1 to Annex J with editorial license.

See also comments #95

Bucket

SC 167.9.1

C/ 167 SC 167.9.1 P59 L54 # 95

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

Comment Type TR Comment Status D

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"

Proposed Response Status W

PROPOSED ACCEPT IN PRINCIPLE.
Refer to Annex J with editorial license

See comment #69

Cl 167 SC 167.9.1 P59 L54 # 177

Lewis, Jon Dell Technologies

Comment Type TR Comment Status D

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."

Proposed Response Status W

PROPOSED ACCEPT.

C/ 167 SC 167.10.1 P61 L35 # 70

Wienckowski, Natalie General Motors

Comment Type TR Comment Status D

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.

Proposed Response Status W

PROPOSED REJECT.

See response to comment #66.

Cl 167 SC 167.10.2.1 P62 L44 # 197

Dawe, Piers Nvidia

Comment Type E Comment Status D

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.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Discuss this footnote.

See also responses to comments #4 and 132

C/ 167 SC 167.10.2.2 P62 L7 # 71

Wienckowski, Natalie General Motors

Comment Type TR Comment Status D

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

Proposed Response Status W

PROPOSED REJECT.

See response to comment #66.

C/ 167 SC 167.10.2.2 P**62 L8** # 96 Ferretti, Vince Corning

Comment Status D Comment Type TR

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

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE. Change 70 m to 60 m to match OM3 operating distance elsewhere in Clause 167.

C/ 167 SC 167.10.2.2 P62 L25

Wienckowski, Natalie General Motors

Comment Type TR Comment Status D

Remove reference to OM3 as it doesn't meet the project objectives.

SugaestedRemedy

Delete OM3 columns in Table 167-15

Proposed Response Response Status W

PROPOSED REJECT.

See response to comment #66.

C/ 167 SC 167.10.2.2 P62 L29 # 130 Cisco

Ran, Adee

Comment Type E Comment Status D 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.

SugaestedRemedy

change to "MHz·km".

Proposed Response Response Status W

PROPOSED ACCEPT.

C/ 167 SC 167.10.2.2 P62 L39 # 131

Ran. Adee Cisco

Comment Type Comment Status D Ε

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.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

See responses to comments #33, 43

This footnote will be condensed and streamlined.

C/ 167 SC 167.10.2.2 P62 L40 # 43

OFS

Lingle, Robert

Comment Status D Comment Type T

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."

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Discuss as a Task Force

See also comments #33 and 131

Cl 167 SC 167.10.2.2 P62 L40 # 33

Parsons, Earl CommScope

Comment Type T Comment Status D

Footnote e is too long

SuggestedRemedy

streamline the EMB information in this table and footnote

Proposed Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Discuss

See also response to comments #43 and 131

Cl 167 SC 167.10.2.2 P62 L44 # 132

Ran, Adee Cisco

Comment Type T Comment Status D

"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.

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

This footnote needs to be discussed.

See response to comments #4 and 197

Cl 167 SC 167.10.2.2.2 P63 L6 # 5

Swanson, Steven Corning Incorporated

Comment Type TR Comment Status D

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

Proposed Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Replace the sentence with

"The maximum discrete reflectance shall be less than –20 dB for physical contact connectors and –45 dB for angled physical contact connectors"

Cl 167 SC 167.10.3 P63 L17 # 133

Ran, Adee Cisco

Comment Type T Comment Status D

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".

Proposed Response Response Status W

PROPOSED REJECT.

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

Bucket

C/ 167 SC 167.10.3.1 P63 L18 # 134 C/ 167 SC 167.11.3 P67 **L1** # 192 Ran, Adee Cisco Huber, Tom Nokia Comment Status D Comment Type Comment Status D Comment Type Т Bucket т It is unclear why there are no optical lane assignments for the 100GBASE-VR1 and In the Major Capabilities table, the item codes *VR2, *SR2, *VR4, and *SR4 are used twice, 100GBASE-VR1 MDIs. 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 SuggestedRemedy Major Capability, or both. Either add text and a diagram for the single-lane MDI lane assignments, or add a text or SuggestedRemedy NOTE to explain why they are not specified. Use different names for the 4 MDI rows (e.g. xxx-MDI) in the Major Capabilities table, and Proposed Response Response Status W update 167.11.4.6 to reflect the intended conditions. PROPOSED REJECT. Proposed Response Response Status W This is consistent with previous clauses i.e. Clause 138. PROPOSED ACCEPT IN PRINCIPLE. C/ 167 SC 167.10.3.2 L23 P64 # 198 Make these changes after discussion with Task Force Dawe, Piers Nvidia C/ 167 SC 167.11.4.3 P69 L36 # 135 Comment Type T Comment Status D Ran, Adee Cisco I think this section says that 100GBASE-VR1 or 100GBASE-SR1 must use a non-angled Comment Status D Comment Type E Bucket PC interface while 167.10.3.3 must be angled. For "breakout" use, this is enough of a contradiction that it could cause problems The Value/Comment in S1 and S2 are invalid and unnecessary. SuggestedRemedy SuggestedRemedy Add text saying that a device/port/module with multiple 1-lane PMDs can use the adapter, Delete the Value/Comment in both items. receptacle or plug according to 167.10.3.3 and one of the active lane positions given in Proposed Response Response Status W 167.10.3.1. PROPOSED ACCEPT IN PRINCIPLE. Proposed Response Response Status W Double check those two cells in this table to see what should be in them. PROPOSED ACCEPT IN PRINCIPLE. Discuss as a Task Force C/ 167 SC 167.11.4.3 P69 L37 # 170 Dudek, Mike Marvell C/ 167 SC 167.11.3 P67 **L1** # 191 Comment Type E Comment Status D Bucket Nokia Huber, Tom Missing references Comment Type T Comment Status D Bucket SuggestedRemedy 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 Change to "Per definitions in 167.8" on lines 36 and 38 name. Proposed Response Response Status W

PROPOSED ACCEPT.

SuggestedRemedy

Proposed Response

PROPOSED ACCEPT.

Rename these items VR1, VR2, VR4.

Response Status W

C/ 167 SC 167.11.4.5 P70 L34 # 178 C/ 167 SC Table 167-7 P51 L27 Lewis, Jon **Dell Technologies** Swanson, Steven Corning Incorporated Comment Type Comment Status D Comment Type E Comment Status X TR IEC 60950-1 has been removed and the updated references are in Annex J The TDECQ is the same for both variants. SuggestedRemedy SuggestedRemedy Change to "Conforms to J.2" Merge cells. Proposed Response Proposed Response Response Status W Response Status W PROPOSED ACCEPT. DISCUSS TDECQ (max) is shown in separate cells for VR and SR links because it is measured with C/ 167 SC 167.11.4.6 P**71** L25 # 252 different filters. Haiduczenia, Marek Charter Communications C/ 167 SC Table 167-7 P51 Comment Type ER Comment Status D Bucket L29 Missing OC9 and OC13? Corning Incorporated Swanson, Steven Comment Type E Comment Status X SuggestedRemedy The TECQ is the same for both variants. Renumber OC10-14 Proposed Response SuggestedRemedy Response Status W PROPOSED ACCEPT. Merge cells. Proposed Response Response Status W SC 167.11.4.6 P**71** L30 C/ 167 # 251 DISCUSS along with response to comment #1. Hajduczenia, Marek **Charter Communications** C/ 167 SC Table 167-7 P51 L43 # 3 Comment Type ER Comment Status D Bucket OC12 mixes "or" with "*" in the same Status entry. Use "INS and (SR2 or SR4):M" or Swanson, Steven Corning Incorporated alternatively "INS*(SR2 + SR4):M" syntax. Comment Type ER Comment Status D The same in OC14. If *+ syntax is used, alto consider changing OC8 and OC10. Encircled flux is a requirement for the transmitter. SuggestedRemedy SuggestedRemedy Per comment Replace: Proposed Response Response Status W "If measured into type A1a.2 or type A1a.3, or A1a.4, 50 µm fiber, in accordance with IEC PROPOSED ACCEPT. 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." Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. Discuss

Cl 167.1 SC Table 167-15 P62 L44 # 4_____

Swanson, Steven Corning Incorporated

Comment Type ER Comment Status D

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."

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

Revise footnote f.

See also response to comments #132 and 197